



Since 1947

# PSG College of Arts & Science Coimbatore – 641 014

## Programme: BA Sociology

### Programme Outcomes

|      | <b>On completion of the programme, the student will be able to</b>                |
|------|---|
| PO-1 | Students are equipped to complete in the civil service and academic examinations  |
| PO-2 | The students can come up with strong theoretical and methodological foundations   |
| PO-3 | To understand the social scientific methods and approaches to social research gap |

### Programme Specific Outcomes

|       | <b>On completion of the programme, the student will be able to</b>                                       |
|-------|--|
| PSO-1 | Students are assigned with individual assignments to bring out social issues with necessary implications |
| PSO-2 | The students are assigned and mentored to plan for individual research                                   |
| PSO-3 | The students are enhanced with out-reach programmes to have intensive understanding                      |

### Course Outcomes

| Course Title | Core<br>GENERAL SOCIOLOGY – I  |
|--------------|--|
| Code         | 18SOU01 / 19SOU01  |
|              | <b>On completion of the course, students would be able to</b>  |
| CO-1         | It facilitates the student to pursue law education with the understanding of fundamentals in society         |
| CO-2         | The students are able to overcome their prejudice and misconceptions through the scientific study of society |

| Course Title | Core<br>INDIAN SOCIAL STRUCTURE-1   |
|--------------|---|
| Code         | 18SOU02 / 19SOU02   |
|              | <b>On completion of the course, students would be able to</b>                     |
| CO-1         | Compete for the competitive examinations  |
| CO-2         | Reach the platform to analyze the Indian traditions following Indian sociologists |

| Course Title | Core<br>GENERAL SOCIOLOGY-II  |
|--------------|---|
| Code         | 18SOU04   |
|              | <b>On completion of the course, students would be able to</b>   |
| CO-1         | The students are enabled for applying the learned concepts in various groups at different context to identify the nature of the group and its existence               |
| CO-2         | The students are able to identify the underlying causes and consequences occurred due to the dynamism in group and situations which leads them to reframe the concept |

| Course Title | Core<br>INDIAN SOCIAL STRUCTURE-II                            |
|--------------|---|
| Code         | 18SOU05   |
|              | <b>On completion of the course, students would be able to</b> |

|      |  |
|------|--|
| CO-1 | Equipping the students with the necessary knowledge of the ruralites |
| CO-2 | To develop the students competencies for community based employment  |
| CO-3 | To assess the change in jajmani and panchayatraj system              |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Allied-SO<br/>SOCIAL HISTORY OF TAMIL NADU</b>   |
| <b>Code</b>         | <b>18SOU06</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | The student becomes capable to understand the origin and sustenance of Tamils and Tamil Nadu                    |
| CO-2                | Students become knowledgeable about the significance and bifurcation of states from its solidified presidencies |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>URBAN SOCIOLOGY</b>  |
| <b>Code</b>         | <b>18SOU07</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | It enables the students to provide appropriate necessary measures to improve the infrastructure and to prevent it from disastrous conditions |
| CO-2                | It enables the students to suggest remedial measures for urban social problems   |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>SOCIAL ANTHROPOLOGY</b>  |
| <b>Code</b>         | <b>18SOU08</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | They gain priority to work in an NGO focusing towards tribal development                                 |
| CO-2                | It enables the student to identify the barriers for tribal development and to bridge the same            |
| CO-3                | The thorough knowledge in this paper prepares the student to specialize Anthropology in higher education |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>RESEARCH METHODOLOGY</b>  |
| <b>Code</b>         | <b>18SOU10</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | The student becomes strong enough to apply the necessary aptitude and analytical skill to carry a scientific Social research successfully             |
| CO-2                | It provides an opportunity for the students to do projects from undergraduate level, which builds more confidence for them in future research avenues |
| CO-3                | The students are enabled to identify and sort out quantitative & qualitative data for a better research   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>SOCIAL THOUGHT-I</b>  |
| <b>Code</b>         | <b>18SOU11</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | The students realize the dynamics in the societal setting and indicate the adaptability they need to balance the dynamism |
| CO-2                | The student becomes potential to frame theoretical groundings for an empirical study                                      |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>SOCIAL THOUGHT -II</b>   |
| <b>Code</b>         | <b>18SOU13</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | The students are able to frame and carry a research with the base of theory in relevance to the focused concepts |
| CO-2                | The student becomes potent to apply thinkers' view into the operations of society                                |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>SOCIAL DEMOGRAPHY</b>  |
| <b>Code</b>         | <b>18SOU14</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | On completion of the course, the students would be able to adopt necessary measures for demographic analysis |
| CO-2                | The students are enabled to identify the fluctuations in population and the reason for same                  |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core Elective - I<br/>INDUSTRIAL SOCIOLOGY</b>  |
| <b>Code</b>         | <b>18SOU15A</b>  |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | The students are intellectually equipped to initiate an enterprise   |
| CO-2                | It enhances opportunity for employment   |
| CO-3                | The students are skilled to act as a liaison officer to settle the disputes for better functions of the industry |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core Elective - I<br/>MEDICAL SOCIOLOGY</b>   |
| <b>Code</b>         | <b>18SOU15B</b>  |
|                     | <b>On completion of the course, students would be able to</b>                                      |
| CO-1                | The students can identify the social causes for illness  |
| CO-2                | The students are enabled to understand the problems of health of various socio economic conditions |
| CO-3                | To develop the rappings between the individual and health personnel                                |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>COMPUTER APPLICATIONS IN SOCIOLOGY</b>  |
| <b>Code</b>         | <b>18SOU17</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | To equip the students with the knowledge of software & hardware of the computer handle in an effective manner |
| CO-2                | The students are able to analyze the data independently with the help of SPSS                                 |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>SOCIAL GERONTOLOGY</b>   |
| <b>Code</b>         | <b>18SOU18</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | They are eligible to pursue higher studies in gerontology at foreign universities  |
| CO-2                | They can mentor the known and neighboring aged people and destitute to access the welfare measures for the remaining life of elderly |
| CO-3                | The students are ready enough for the referral services for elderly which is a base to initiate an NGO                               |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>GENDER AND SOCIETY</b>  |
| <b>Code</b>         | <b>18SOU19</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | The students can acquire the knowledge about the gender gaps in development, employment and inheritance |
| CO-2                | The girl students will have a conscious about Women's inequality and discriminations in society         |
| CO-3                | It helps the students to assess the position of Women in India  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core</b><br><b>SOCIOLOGY OF CHANGE AND DEVELOPMENT</b>                                       |
| <b>Code</b>         | <b>18SOU20</b>  |
|                     | <b>On completion of the course, students would be able to</b>                                   |
| CO-1                | The students get molded to fit themselves into development                                      |
| CO-2                | The students are able to take projects in the development aspects for sustainable development   |
| CO-3                | The students are enabled to take measures for framing further policies in the context of change |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core</b><br><b>SOCIAL PROBLEMS &amp; SOCIAL WELFARE</b>   |
| <b>Code</b>         | <b>18SOU21</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | The students are enabled to identify the remedies for the social issues                                    |
| CO-2                | The students are able to become a social entrepreneur and to initiate the NGO for the welfare of the state |
| CO-3                | The students are skilled to identify and connect the deviance to the rehabilitation centers                |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core Elective - II</b><br><b>HUMAN RESOURCE MANAGEMENT</b>                                   |
| <b>Code</b>         | <b>18SOU22A</b>   |
|                     | <b>On completion of the course, students would be able to</b>                                   |
| CO-1                | The students are capable to manage HR effectively in an industry                                |
| CO-2                | It enables the students to occupy an outstanding position in the HR management                  |
| CO-3                | The students are enabled to panel the recruitment board in an industry for recruiting employees |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core Elective - II<br/>SOCIOLOGY OF HEALTH AND HOSPITAL MANAGEMENT</b>    |
| <b>Code</b>         | <b>18SOU22B</b>  |
|                     | <b>On completion of the course, students would be able to</b>                |
| CO-1                | It enables the students to know the socio-cultural differences of illness    |
| CO-2                | To find out the causes and consequences for illness                          |
| CO-3                | The students are skilled with technical knowledge in hospital administration |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>INDIAN POLITICAL SYSTEM</b>   |
| <b>Code</b>         | <b>18SOU23</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | It enables the students to have thorough knowledge of the structure and functions of the political system                 |
| CO-2                | The students become capable to understand the basic rights and duties which enhance their potentials to be a good citizen |
| CO-3                | The students are equipped to compete in competitive exams   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Generic elective / Inter Disciplinary Course<br/>ELEMENTS OF SOCIOLOGY</b> |
| <b>Code</b>         | <b>18PSU03</b>  |
|                     | <b>On completion of the course, students would be able to</b>                 |
| CO-1                | The students understand the importance of socialization for a better life     |
| CO-2                | The students come to know the significant need of humans living in groups     |
| CO-3                | The students become capable to identify the adverse effect of solitary living |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Generic Elective Course : EDC<br/>CONTEMPORARY SOCIAL ISSUES IN INDIAN SOCIETY</b>                |
| <b>Code</b>         | <b>18GECSOU</b>  |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | The student becomes able to know about the underlying causes of the social issues                    |
| CO-2                | The student understands the process of the change in a society                                       |
| CO-3                | It helps the students to know the impact of social issues on the development of individual & society |

|                     |   |                         |
|---------------------|---|-------------------------|
| <b>Course Title</b> | <b>WOMEN'S STUDIES (SELF-STUDY)</b>   |                         |
| <b>Code</b>         | <b>18WS01</b>   |                         |
| <b>Class</b>        | <b>PART V (OPTIONAL)</b>  | <b>Semester- I - VI</b> |
|                     | <b>On completion of the course, students would be able to</b>                         |                         |
| CO-1                | The students become alert to face against the discriminations to lead the better life |                         |
| CO-2                | The students become aware about the rights meant for women in the society             |                         |



Since 1947

# PSG College of Arts & Science Coimbatore – 641 014

## Programme: BAEconomics

### Programme Outcomes

| On completion of the programme, the student will be able to |   |
|---|---|
| PO-1  | The participants will become knowledgeable in the subject of Economics and apply the principles of the same to the needs of the Employer / Institution / own Business or Enterprise   |
| PO-2  | The students will gain analytical skills in the field/area of Consumer Behavior, Macro Fundamentals, Fiscal and Monetary Policies and the contribution of Health and Education sectors to the economy   |
| PO-3  | The undergraduate students will understand and appreciate professional ethics, community living and nation building initiatives with commitment and dedication  |
| PO-4  | Our enthusiastic students of Economics will demonstrate the civic consciousness, responsibility and capacity for service beyond the barriers of race, religion, caste, creed and region as global citizens with the Gandhian motto of high thinking and simple living |
| PO-5  | Students have to acquire significant talent sets to excel in their chosen career and emerge as successful entrepreneurs or active researchers/ educationists par excellence with this strong foundation from the academic ambience of PSG Group                       |
| PO-6  | Our undergraduate curriculum framework in Economics is based on the need and value based education which will make them industry ready with right attitude and aptitude   |

### Programme Specific Outcomes

| On completion of the programme, the student will be able |  |
|--|--|
| PSO-1  | Knowledge on theoretical understanding and the foundations on which theories |

|       |   |
|-------|---|
|       | arebuilt.   |
| PSO-2 | Apply the knowledge of Micro and Macro Economics in the domain of Consumer Behaviour, welfare issues, Economic Growth, employment generation and National Income Accounting   |
| PSO-3 | Solve the complex Macro economic problems with an understanding of the societal, legal and cultural impacts of the solution (Example: Economics-Goods & Services Tax (GST)-Fiscal & Monetary Policy nexus, Union Budget, Crony Capitalism, Bankruptcy Code, Re-capitalism and so on ) |
| PSO-4 | To decipher economic trends and to demonstrate appropriate policy decisions in the respective fields  |
| PSO-5 | Prepare the students with right skills to excel in Business, International Trade, Government, Education and Non- Profit Sector  |
| PSO-6 | To Mould the students as a perfect Team Member with right attitudes and aptitude  |

### Course Outcomes

| Course Title | Core<br>MICRO ECONOMICS I  |
|--------------|--|
| Code         | 18ECU01 / 19ECU01  |
|              | <b>On completion of the course, students would be able to</b>      |
| CO-1         | Understand about basic economic concepts                           |
| CO-2         | Demonstrate these concepts using a Production Possibility Frontier |
| CO-3         | Analyze the demand and supply                                      |
| CO-4         | Examine the consumer behaviour in terms of price, income changes.  |
| CO-5         | Determine the consumer preference in the market.                   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>MATHEMATICAL METHODS-I</b>  |
| <b>Code</b>         | <b>18ECU02 / 19ECU02</b>  |
|                     | <b>On completion of the course, students would be able to</b>                   |
| CO-1                | Familiar with the mathematical concepts   |
| CO-2                | Simplify and perform operations with progressions, relations and sets           |
| CO-3                | Identify and apply basic Geometry and Matrix to solve the problems in Economics |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>MICRO ECONOMICS II</b>   |
| <b>Code</b>         | <b>18ECU04 / 19ECU04</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Identify the costs of production and how profit-maximizing firms determine how much to produce. Be able to distinguish between long-run decisions and short-run decision |
| CO-2                | Analyze the major characteristics of different market structures and the implications for the behavior of the firm   |
| CO-3                | Understand the theories of rent, profit, interest and wages  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>MATHEMATICAL METHODS- II</b>  |
| <b>Code</b>         | <b>18ECU05 /19ECU05</b>   |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Analyze, summarize and interpret data in Economics  |
| CO-2                | Acquire the ability to interpret differential equations qualitatively and quantitatively                              |
| CO-3                | Apply the technique of Game theory and Input output analysis in the field of production and marketing in the business |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>MACRO ECONOMICS</b>  |
| <b>Code</b>         | <b>18ECU07</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Understand the nature of macro economics and analyze the importance of national income estimation of a country |
| CO-2                | Acquire the knowledge about the employment and output theory in macro economics                                |
| CO-3                | Analyze the various theories related to consumption and investment   |
| CO-4                | Acquire the knowledge of the theories of business cycle and distribution                                       |
| CO-5                | Examine the policies of macro economics which helps in economic growth and development of economy              |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>DEVELOPMENT OF ECONOMIC IDEAS</b>   |
| <b>Code</b>         | <b>18ECU08</b>  |
|                     | <b>On completion of the course, students would be able to</b>                                   |
| CO-1                | Trace the development of European economic thought, and analyze concepts in historical context; |
| CO-2                | Compare and contrast as well as discuss classical economic theories; and                        |
| CO-3                | Synthesize the elements of neoclassical and Keynesian approaches in the modern era              |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>STATISTICAL METHODS-1</b>                              |
| <b>Code</b>         | <b>18ECU09</b>   |
|                     | <b>On completion of the course, students would be able to</b>      |
| CO-1                | Analyze the descriptive statistics of the variables                |
| CO-2                | Examine the importance of skewness and kurtosis                    |
| CO-3                | Apply the correlation and regression analysis to economic problems |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>MACRO ECONOMICS- II</b>  |
| <b>Code</b>         | <b>18ECU10</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Analyze the types of inflation and its effects.  |
| CO-2                | Determine the theoretical models of growth   |
| CO-3                | Understand the causes and consequences of business cycles  |
| CO-4                | Identify the determinants and measures of monetary and fiscal policy and brings out the Keynesian outcomes in the stabilization of policies. |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>MONETARY ECONOMICS</b>   |
| <b>Code</b>         | <b>18ECU11</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Analyze the role of money in the economy as well as to understand some models where inflation shows persistence.   |
| CO-2                | Understand the theory of monetary policy, monetary policy operating procedures and the central banking mechanisms. |
| CO-3                | Determine the links between monetary policy, financial markets and the real economy.                               |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>STATISTICAL METHODS- II</b>   |
| <b>Code</b>         | <b>18ECU12</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Apply statistical tools to the macro economic problems.   |
| CO-2                | Understand basic probability theorems and the interpretation of Chi-square test, F-test and Analysis of Variance. |
| CO-3                | Analyze the interpretation of Chi-square test, F-test and Analysis of Variance.                                   |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>AGRICULTURAL ECONOMICS</b>   |
| <b>Code</b>         | <b>18ECU13 / 19ECU13</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Acquire the knowledge of agricultural economics theories including production function theories and cost function theories |
| CO-2                | Examine the production function theories and cost function theories  |
| CO-3                | Analyze the importance of Economic farming, organic farming, precision farming   |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>FISCAL ECONOMICS</b>   |
| <b>Code</b>         | <b>18ECU14 / 19ECU14</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Demonstrate a good understanding of the fiscal framework for taxing and spending and of fiscal policy principles   |
| CO-2                | Analyze critically about the tax reforms and policy choices  |
| CO-3                | Compare and contrast the key issues and challenges in fiscal policy in a particular development or country context |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>INTERNATIONAL ECONOMICS</b>  |
| <b>Code</b>         | <b>18ECU15 / 19ECU15</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Understand the main economic theories models of international trade  |
| CO-2                | Analyze the major recent developments in the world trading system, and be able to critically analyze key issues raised both by WTO negotiations and by the spread of regional trading arrangements concerning trade policies |
| CO-3                | Apply economic reasoning to issues of the day surrounding globalization  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>BASIC ECONOMETRICS</b>  |
| <b>Code</b>         | <b>18ECU16 / 19ECU16</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Explain econometric concepts and results intuitively  |
| CO-2                | Conduct independent data analysis and inquiry using the tools of statistics and econometrics                      |
| CO-3                | Acquire deeper understanding of economic statistics, econometrics, and have greater confidence in its application |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>ECONOMICS OF DEVELOPMENT AND PLANNING</b>  |
| <b>Code</b>         | <b>18ECU17A / 19ECU17(A)</b>   |
|                     | <b>On completion of the course, students would be able to</b>                                    |
| CO-1                | Discuss the important theories and models in economic development and their policy implications. |
| CO-2                | To analyze and describe the features of less developed economies and the importance of planning  |
| CO-3                | Understand and evaluate the unevenness in development  |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>INDIAN ECONOMY</b>   |
| <b>Code</b>         | <b>18ECU17 (B) / 19ECU17(B)</b>  |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Understand the various aspects of India's economy  |
| CO-2                | Develop a perspective on the different problems and approaches to economic planning and development in India       |
| CO-3                | Examine the role of the Indian Economy in the global context, and how different factors have affected this process |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>INDUSTRIAL ECONOMICS</b>  |
| <b>Code</b>         | <b>18ECU19 / 19ECU19</b>  |
|                     | <b>On completion of the course, students would be able to</b>               |
| CO-1                | Acquire the theoretical knowledge of industrial economics                   |
| CO-2                | Analyze about the productivity of industrial organization                   |
| CO-3                | Understand the growth and the role of financial institutions in industries. |
| CO-4                | Examine the labour relation with the industries                             |
| CO-                 | Analyze the investment decisions in industrial organization                 |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>ENVIRONMENTAL ECONOMICS</b>   |
| <b>Code</b>         | <b>18ECU20 / 19ECU20</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Understand about the multi-dimensions of environmental economics, social choice mechanism, property rights and regulation.            |
| CO-2                | Acquire a better understanding on the topics like willingness to pay, basic approaches to measure the demand for environmental goods. |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>LABOUR ECONOMICS</b>  |
| <b>Code</b>         | <b>18ECU21 / 19ECU21</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Demonstrate basic labor economics theory, including labor market structures and wage determination                |
| CO-2                | Apply their understanding of theoretical models to analyze trends in data pertaining to topics in labor economics |
| CO-3                | Construct, defend, and analyze important labor policy issues  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>ECONOMICS FOR GLOBALISATION</b>   |
| <b>Code</b>         | <b>18ECU22 / 19ECU22</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Understand about some of the major changes going on in the world economy and the key factors making these changes happen. |
| CO-2                | Able to analyze the role of technological change global and regional economic change.                                     |
| CO-3                | To reflect upon the positive and negative consequences of economic globalization.   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Discipline Specific Elective Course II<br/>ENTREPRENEURSHIP DEVELOPMENT</b>            |
| <b>Code</b>         | <b>18ECU23A / 19ECU23(A)</b>  |
|                     | <b>On completion of the course, students would be able to</b>                             |
| CO-1                | Understand the development of entrepreneurship as a field of study and as a profession    |
| CO-2                | Examine the parameters to assess opportunities and constraints for new business ideas     |
| CO-3                | Analyze the importance of innovation in the creation of sustainable competitive advantage |
| CO-4                | Design strategies for successful implementation of ideas                                  |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Discipline Specific Elective Course II<br/>REGIONAL ECONOMICS</b> |
| <b>Code</b>         | <b>18ECU23B / 19ECU23(B)</b>   |
|                     | <b>On completion of the course, students would be able to</b>        |
| CO-1                | Demonstrate with a variety of location-production models             |
| CO-2                | Understand how activities are distributed in space                   |
| CO-3                | Discuss the rationale behind firm clustering and dispersion          |
| CO-4                | Describe how land rents are determined according to standard theory  |
| CO-5                | Critically evaluate the conclusions of regional economists           |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>CURRENT TRENDS IN INDIAN ECONOMY</b>   |
| <b>Code</b>         | <b>18GECECU / 19GECECU</b>   |
|                     | <b>On completion of the course, students would be able to</b>                              |
| CO-1                | Get an idea about planning   |
| CO-2                | Know the functioning of Agricultural sector, Industrial sector and Service sector in India |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>MANAGERIAL ECONOMICS</b>  |
| <b>Code</b>         | <b>18CSU03A</b>   |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Understand the role of managers in firms  |
| CO-2                | Analyze the demand and supply conditions and assess the position of a company   |
| CO-3                | Design competition strategies, including costing, pricing, product differentiation, and market environment according to the natures of products and the structures of the markets |
| CO-4                | Understand the pricing mechanism in different market  |
| CO-5                | Analyze real-world business problems with a systematic theoretical framework  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>BUSINESS ECONOMICS - IDC (FOR B.COM)</b>  |
| <b>Code</b>         | <b>18COU12</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Demonstrate the application of Economic theory and methodology in solving business problem                                    |
| CO-2                | Recognize different market structures and make optimal decisions based on the economic environment in which the firm operates |
| CO-3                | Formulate alternative pricing strategies that will allow a firm with market power to increase its profits                     |



Since 1947

# PSG College of Arts & Science Coimbatore – 641 014

## Programme: BA English

### Programme Outcomes

|      | <b>On completion of the programme, the student will be able to</b>   |
|------|--|
| PO-1 | Become knowledgeable in the subject of English and apply the principles of the same to the needs of the Employer / Institution /own Business or Enterprise |
| PO-2 | Gain Analytical skills in the field/area of English literature   |
| PO-3 | Understand and appreciate professional ethics, community living and National Building initiatives  |
| PO-4 | To expose the students to the world of English literature and to make them realize the universal truths discussed in it, leading to a holistic life        |
| PO-5 | To prepare the students to use English language proficiently and to lay the foundation for various eligibility tests                                       |
| PO-6 | Enhance sufficient skills for an apt career  |

### Programme Specific Outcomes

|       | <b>On completion of the programme, the student will be able</b>   |
|-------|---|
| PSO-1 | Apply the knowledge of Literature in the domain of English  |
| PSO-2 | Solve the complex problems in the field of English language teaching with an understanding of the societal , legal and cultural impacts of the solution (Example: Economics- Goods & Services Tax (GST)-Fiscal & Monetary Policy nexus) |
| PSO-3 | Involvement of the students in analyzing and interpreting literature and to make students realize how life and literature are closely connected   |
| PSO-4 | Form a part of member in a team with right attitudes  |

### Course Outcomes

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>COMMUNICATIVE ENGLISH – I<br/>INTERPERSONAL COMMUNICATION</b> |
| <b>Code</b>         | <b>18EU01</b>  |
|                     | <b>On completion of the course, students would be able to</b>    |
| CO-1                | Acquire intensive skills for real listening situations           |
| CO-2                | Acquire communicative competence in the use of English           |
| CO-3                | Gain the reading skill of responding to overall message          |
| CO-4                | Gain the dynamics of certain personal writing situations         |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>COMMUNICATIVE ENGLISH – II<br/>ACADEMIC COMMUNICATION</b>   |
| <b>Code</b>         | <b>18EU02</b>  |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Analyze and apply the language skills for better communication |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>COMMUNICATIVE ENGLISH – PAPER III<br/>DEVELOPING ENGLISH LANGUAGE SKILLS THROUGH<br/>LITERATURE</b> |
| <b>Code</b>         | <b>18EU03</b>  |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Understand the universal themes discussed in the varied genres of literature                           |
| CO-2                | Ability to reproduce the stories in oral and in written formats  |
| CO-3                | Analyze and apply the language skills in everyday situations   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>COMMUNICATIVE ENGLISH –IV<br/>ENGLISH FOR CAREER</b>       |
| <b>Code</b>         | <b>18EU04</b>   |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Skills to construct error free sentences                      |
| CO-2                | Analyse and apply the language skills in life situations      |
| CO-3                | Acquisition of soft skills for career opportunities           |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>INTRODUCTION TO ENGLISH LANGUAGE AND LITERARY FORMS</b> |
| <b>Code</b>         | <b>18ENU01</b>  |
|                     | <b>On completion of the course, students would be able to</b>       |
| CO-1                | Gain knowledge of the technical aspects of literature               |
| CO-2                | Explore the issues that arise regarding literary forms              |
| CO-3                | Understand the universal themes in literature                       |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>POETRY I</b>                                      |
| <b>Code</b>         | <b>18ENU02</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Understand the mainstream of English poetic tradition         |
| CO-2                | Analyse the various forms associated with poetry              |
| CO-3                | Write poem of their own                                       |
| CO-4                | Enhance their imaginative power and creative thinking         |
| CO-5                | Critically interpret poetry                                   |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Allied<br/>SOCIAL HISTORY OF ENGLAND</b>  |
| <b>Code</b>         | <b>18ENU03</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Understand the diversity of the human experience as influenced by geographical location, race, ethnicity, cultural traditions, gender and class. |
| CO-2                | Understand the impact of historical events that shaped literature  |
| CO-3                | Appreciate literature against the backdrop of British social life and history  |
| CO-4                | Assess, use, and synthesize different kinds of evidence from a variety of historical sources to make a coherent argument about the past          |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>PROSE – I</b>   |
| <b>Code</b>         | <b>18ENU04</b>  |
|                     | <b>On completion of the course, students would be able to</b>                               |
| CO-1                | Notify with the modern prose writers of the English literary tradition                      |
| CO-2                | Differentiate the prose styles of individual authors  |
| CO-3                | Appreciate prose  |
| CO-4                | Appreciate ambiguity and complexity   |
| CO-5                | Articulate their own interpretations with an awareness and curiosity for other perspectives |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>POETRY – II</b>  |
| <b>Code</b>         | <b>18ENU05</b>   |
|                     | <b>On completion of the course, students would be able to</b>          |
| CO-1                | Got acquainted with the poetic tradition of Victorian and Modern poets |
| CO-2                | Developed a taste for poetry   |
| CO-3                | Got acquainted with the various technical Elements of poetry           |
| CO-4                | Learnt the musical aspects of poetry                                   |
| CO-5                | Developed a critical outlook   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Allied<br/>ENGLISH LANGUAGE</b>  |
| <b>Code</b>         | <b>18ENU06</b>  |
|                     | <b>On completion of the course, students would be able to</b>                           |
| CO-1                | Acquire a holistic perspective of English as a language in terms of modern linguistics. |
| CO-2                | Analyze the language through different techniques.                                      |
| CO-3                | Understand the sound system of English language   |
| CO-4                | To analyze linguistic concepts in terms of grammar.                                     |
| CO-5                | Understand structure and style of the language.   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Allied<br/>PROSE II</b>  |
| <b>Code</b>         | <b>18ENU07</b>  |
|                     | <b>On completion of the course, students would be able to</b>                               |
| CO-1                | Notify with the modern prose writers of the English literary tradition                      |
| CO-2                | Differentiate the prose styles of individual authors  |
| CO-3                | Appreciate prose.   |
| CO-4                | Appreciate ambiguity and complexity   |
| CO-5                | Articulate their own interpretations with an awareness and curiosity for other perspectives |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>DRAMA – I</b>                                     |
| <b>Code</b>         | <b>18ENU08</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Understood the various types of dramatic devices              |
| CO-2                | Learnt to appreciate the different genres of drama            |
| CO-3                | Learnt the societal impact on dramas of different ages        |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Allied<br/>HISTORY OF ENGLISH LITERATURE – I</b>                   |
| <b>Code</b>         | <b>18ENU09</b>  |
|                     | <b>On completion of the course, students would be able to</b>         |
| CO-1                | Acquire basic knowledge about History of English Literature           |
| CO-2                | Familiarize with major authors and different genres                   |
| CO-3                | Receive an exposure to a wide range of Literature texts and writers   |
| CO-4                | Analyse inter-relationship between History and Literature             |
| CO-5                | Appreciate Literature in different perspective with critical approach |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>DRAMA–II</b>   |
| <b>Code</b>         | <b>18ENU10</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Have a knowledge of the dramatic devices used in the prescribed plays                                      |
| CO-2                | Appreciate drama   |
| CO-3                | Explore and make drama as means of investigating feelings, knowledge and ideas                             |
| CO-4                | Acquire and develop dramaturgical skills   |
| CO-5                | To critically and aesthetically analyze works and historical movements in dramatic literature and practice |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>FICTION</b>                                       |
| <b>Code</b>         | <b>18ENU11</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Understand the Fiction  |
| CO-2                | Comprehend the novels   |
| CO-3                | Identify the different genres of fiction                      |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Allied<br/>HISTORY OF ENGLISH LITERATURE -II</b>                   |
| <b>Code</b>         | <b>18ENU12</b>  |
|                     | <b>On completion of the course, students would be able to</b>         |
| CO-1                | Analyze inter-relationship between History and Literature             |
| CO-2                | Appreciate Literature in different perspective with critical approach |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>SHAKESPEARE</b>   |
| <b>Code</b>         | <b>18ENU13</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Knowledge about Shakespeare's works, storylines, characters, historical background, narrative techniques etc.,                  |
| CO-2                | Evaluate Shakespeare's plays and sonnets.   |
| CO-3                | Analyse and compare Shakespeare's themes and character with the society today, with special reference to his plays and sonnets. |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>POST COLONIAL LITERATURE</b>  |
| <b>Code</b>         | <b>18ENU14</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | How race, class, gender, history, and identity are presented and problematised in the literary texts. |
| CO-2                | Understand and evaluate the key debates in postcolonial theory.                                       |
| CO-3                | Offer nuanced interpretations, and articulate coherent arguments.                                     |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>ENGLISH LITERARY CRITICISM AND THEORY</b>                              |
| <b>Code</b>         | <b>18ENU15</b>   |
|                     | <b>On completion of the course, students would be able to</b>                      |
| CO-1                | Understood the foundation of literary criticism and theory.                        |
| CO-2                | Understood the key role played by the classical masters                            |
| CO-3                | Got introduced to literary theory and the philosophical discussions related to it. |
| CO-4                | Developed a lateral viewpoint in analyzing the works of literature                 |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>ENGLISH LANGUAGE TEACHING</b>  |
| <b>Code</b>         | <b>18ENU16</b>   |
|                     | <b>On completion of the course, students would be able to</b>                            |
| CO-1                | Learners develop a common approach to skills-based teaching and learning in all schools. |
| CO-2                | Learning the pedagogical principals learners develop their professional skills.          |
| CO-3                | Learners would be able to develop their own lesson plan and learning materials.          |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Discipline Specific Elective – I<br/>ENGLISH FOR COMPETITIVE EXAMINATIONS</b>             |
| <b>Code</b>         | <b>18ENU17A</b>  |
|                     | <b>On completion of the course, students would be able to</b>                                |
| CO-1                | Correct the errors in the given text.  |
| CO-2                | Answer the objective and descriptive types of questions in various competitive examinations. |
| CO-3                | Solve any verbal questions in competitive examinations.                                      |
| CO-4                | Comprehend the given passages and text.  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Discipline Specific Elective – I<br/>INTRODUCTION TO MASS COMMUNICATION AND JOURNALISM</b>   |
| <b>Code</b>         | <b>18ENU17B</b>   |
|                     | <b>On completion of the course, students would be able to</b>                                   |
| CO-1                | Realization of multicultural dimensions of communications and their relationship to Journalism. |
| CO-2                | To apply critical thinking skills, effective oral and written communication.                    |
| CO-3                | Application and practice of journalism in variety of contexts.                                  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>AMERICAN LITERATURE</b>   |
| <b>Code</b>         | <b>18ENU18</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Get exposure to the background study of history, politics and literary aspect of American Literature. |
| CO-2                | Able to understand, appreciate, and analyse American Literature.                                      |
| CO-3                | Acquire a wider knowledge of various genres of American Literature.                                   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>INDIAN WRITING IN ENGLISH</b>                     |
| <b>Code</b>         | <b>18ENU19</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Creativity is enhanced and Capable of writing poems           |
| CO-2                | Helps for the upliftment of morality                          |
| CO-3                | Deeper understanding of the practices around the country      |
| CO-4                | Comprehending the nature of specially challenged              |
| CO-5                | Capable of analyzing an issue and overcome it                 |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>TRANSLATION STUDIES</b>  |
| <b>Code</b>         | <b>18ENU20</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Understood the scope of translation in the multilingual Indian context   |
| CO-2                | Would have increased their awareness related to the nature of translation.   |
| CO-3                | Learnt the core issues in translation  |
| CO-4                | Would have learnt to appreciate literature in translation.   |
| CO-5                | Enabled them to develop self-assessing and self correcting techniques in order to monitor their progress in translation. |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>TRAVEL WRITING</b>  |
| <b>Code</b>         | <b>18ENU21</b>  |
|                     | <b>On completion of the course, students would be able to</b>                   |
| CO-1                | Exposition of Travel literature and gaining antecedent of Travel Writing        |
| CO-2                | Understanding of diverse cultures across different travel destinations          |
| CO-3                | Acquisition of writing skills for Travel Writing and creating job opportunities |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core Elective<br/>STUDY OF AN AUTHOR - T.S.ELIOT</b>       |
| <b>Code</b>         | <b>18ENU22A</b>   |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Appreciation and understanding of the various themes          |
| CO-2                | Realization of T.S. Eliot as a literary grant                 |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core Elective<br/>STUDY OF AN AUTHOR- RABINDRANATH –TAGORE</b>        |
| <b>Code</b>         | <b>18ENU22B</b>  |
|                     | <b>On completion of the course, students would be able to</b>            |
| CO-1                | Appreciation and understanding of the various themes on Indian scenario. |
| CO-2                | Realisation of multicultural life and tradition on Indian soil.          |
| CO-3                | Realisation of Tagore as a literary grants.                              |

|               |   |
|---------------|---|
| <b>Course</b> | <b>Generic Elective Course (EDC)</b>  |
| <b>Title</b>  | <b>DYNAMICS OF PUBLIC SPEAKING AND CREATIVE WRITING</b>   |
| <b>Code</b>   | <b>18GECEDC</b>   |
| <b>CO No.</b> | <b>On completion of the course, students would be able to</b>   |
| CO-1          | Analyse right perspective of Public Speaking, Prepare a speech according to current trend                     |
| CO-2          | Pick their own topics, write their own plots and decide the outcome of their own Story                        |
| CO-3          | Focus on the books purpose, content and authority. Students reading, writing and thinking skills will improve |



Since 1947

# PSG College of Arts & Science Coimbatore – 641 014

## Programme: BA Tamil

### Programme Outcomes

|      | On completion of the programme, the student will be able to   |
|------|---|
| PO-1 | Become knowledgeable in the subject of TAMIL and apply the principles of the same to the needs of the Employer / Institution / own Business or Enterprise |
| PO-2 | Gain Analytical skills in the field/area of TAMIL LITERATURE and TAMIL GRAMMAR  |
| PO-3 | Understand and appreciate professional ethics, community living and Nation Building initiatives   |
| PO-4 | மொழியைப் பிழையின்றி பேசவும் கருத்துக்களை எடுத்துரைக்கவும் மாணவர்கள் அறிந்துகொண்டனர்   |
| PO-5 | போட்டித் தேர்வுக்கான வழிமுறைகளையும் இலக்கணம் சார்ந்த கேள்விகளின் நுட்பத்தையும் மாணவர்கள் கற்றுக் கொண்டனர்   |
| PO-6 | சங்கத்தமிழரின் வாழ்வியல் மாண்புகளைச் சங்கப்பாடல்கள் வழி அறிந்து கொண்டனர்  |
| PO-7 | கலைகளின் சிறப்புகள் பற்றி மாணவர்கள் கற்றுக் கொண்டனர்  |
| PO-8 | இலக்கியத்தை திறனாய்ந்து தமிழ் மொழியின் வளத்தை கற்று உணர்ந்தனர்  |

### Programme Specific Outcomes

| On completion of the programme, the student will be able |  |
|--|--|
| PSO-1  | Apply the knowledge of TAMIL in the domain of GRAMMAR  |
| PSO-2  | Solve the complex problems in the field of SANGAM LITERATURE with an understanding of the societal, legal and cultural impacts of the solution |
| PSO-3  | போட்டித் தேர்வுக்கான வழிமுறைகளையும் இலக்கணம் சார்ந்த கேள்விகளின் நுட்பத்தையும் மாணவர்கள் கற்றுக் கொண்டனர் .                                    |
| PSO-4  | Form a part of member in a team with right attitudes   |

### Course Outcomes

| Course Title   | இலக்கணம் - I<br>பயன்பாட்டு இலக்கணம்   |
|--|---|
| Code   | 1801TAU   |
| On completion of the course, students would be able to |   |
| CO-1   | மொழியைப் பிழையின்றி பேசவும் கருத்துக்களை எடுத்துரைக்கவும் மாணவர்கள் அறிந்து கொண்டனர்                      |
| CO-2   | வாக்கிய அமைப்பு வகைகளை நேர்த்தியாக அமைக்க மாணவர்கள் கற்றுக் கொண்டனர்                                      |
| CO-3   | பிறமொழிச் சொற்களின் கலப்பின்றி, மொழியின் பயன்களை அறிந்தனர்  |
| CO-4   | போட்டித் தேர்வுக்கான வழிமுறைகளையும் இலக்கணம் சார்ந்த கேள்விகளின் நுட்பத்தையும் மாணவர்கள் கற்றுக் கொண்டனர் |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>இக்கால இலக்கியம் - I<br/>(கவிதை)</b>                               |
| <b>Code</b>         | <b>18TAU02</b>  |
|                     | <b>On completion of the course, students would be able to</b>         |
| CO-1                | வாழ்வியல் மதிப்பீடுகளை கவிதை இலக்கியங்களின் வாயிலாக உணர்ந்தனர்        |
| CO-2                | கவிதையின் மொழி வளம், சொல் பயன்பாட்டு உத்தி முறைகளைக் கற்றனர்          |
| CO-3                | சமூகப் பொறுப்புணர்வு, மொழிப்பற்று, நாட்டுப்பற்று சிந்தனைகளைக் கற்றனர் |
| CO-4                | சமகால இலக்கிய படைப்பாக்கங்களையும் புதிய உத்திமுறைகளையும் அறிந்தனர்    |
| CO-5                | இலக்கியத் திறனாய்வு அறிவினை மாணவர்கள் பெற்றனர்                        |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>தமிழர் நாகரிகமும் பண்பாடும்</b>   |
| <b>Code</b>         | <b>18TAU03</b>   |
|                     | <b>On completion of the course, students would be able to</b>                  |
| CO-1                | பண்டைக் கால மக்களின் வாழ்வியல் ஒழுக்கலாறுகளை மாணவர்கள் கற்றுக் கொண்டனர்        |
| CO-2                | பண்டைத் தமிழரின் அரசியல், சமூகம் பற்றிய செய்திகளை மாணவர்கள் அறிந்துகொண்டனர்    |
| CO-3                | கலைகளின் சிறப்புகள், பற்றி மாணவர்கள் அறிந்து கொண்டனர்                          |
| CO-4                | பண்டைத் தமிழரின் தொழில் பிரிவுகள் குறித்த செய்திகளை மாணவர்கள் கற்றுக் கொண்டனர் |
| CO-5                | வெளிநாடுகளுடன் தமிழர்களின் வாணிபத் தொடர்பு பற்றி மாணவர்கள் அறிந்தனர்           |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>இலக்கணம் -II<br/>நன்னூல் எழுத்ததிகாரம்</b>   |
| <b>Code</b>         | <b>18TAU04</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | தமிழ் மொழியின் இலக்கணம் சார்ந்த அடிப்படைத் தன்மையையும் மொழியின் கட்டமைப்பையும் மாணவர்கள் கற்றுக் கொண்டனர் |
| CO-2                | மாணவர்கள் இலக்கண விதிகளை ஐயத்திற்கிடமன்றி கற்றுத் தெளிந்தனர்  |
| CO-3                | மொழிப் பயன்பாட்டின் நுட்பங்களை மாணவர்கள் அறிந்து கொண்டனர்   |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>இக்கால இலக்கியம் - II<br/>(புதினம், சிறுகதை, கட்டுரை)</b>   |
| <b>Code</b>         | <b>18TAU05</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | சிறுகதை, புதினம் வழியாக வாழ்வியல் மதிப்பீடுகளையும் சமூக நலச்சிந்தனைகளையும் உணர்ந்து கொண்டனர்                   |
| CO-2                | கதை இலக்கிய படைப்பாக்கத் திறனைப் பெற்றனர்  |
| CO-3                | இலக்கியத்தைத் திறனாய்ந்து மதிப்பிடும் நுட்பத்தை வளர்த்துக் கொண்டனர்  |
| CO-4                | ஆய்வுக் கருத்துக்களை உள்ளடக்கிய உரைநடையின் வாயிலாக தமிழ்மொழியின் பன்முகச் சிறப்புக் கூறுகளைக் கற்று உணர்ந்தனர் |
| CO-5                | தற்கால இலக்கியங்களின் நவீனமாற்றங்களையும் புதிய உத்திகளையும் அறிந்து கொண்டனர்                                   |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>நாட்டுப்புறவியல்</b>  |
| <b>Code</b>         | <b>18TAU06</b>   |
|                     | <b>On completion of the course, students would be able to</b>            |
| CO-1                | நாட்டுப்புறவியல் பற்றிய அடிப்படை செய்திகளை மாணவர்கள் அறிந்து கொண்டனர்    |
| CO-2                | நாட்டுப்புறவியல் கோட்பாடுகள் பற்றிய செய்திகளை மாணவர்கள் கற்றுக் கொண்டனர் |
| CO-3                | மாணவர்கள் கதைப்பாடல்களின் தனித்துவம் குறித்து உணர்ந்தனர்                 |
| CO-4                | மாணவர்கள் நாட்டுப்புறவியல் வகைகள் பற்றி தெளிந்தனர்                       |
| CO-5                | மாணவர்கள் பயன்பாட்டு நாட்டுப்புறவியலின் சிறப்புக்களைக் கற்றுக் கொண்டனர்  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>இலக்கணம்-III<br/>நன்னூல் - சொல்லதிகாரம் (காண்டிகையுரை)</b>             |
| <b>Code</b>         | <b>18TAU07</b>  |
|                     | <b>On completion of the course, students would be able to</b>             |
| CO-1                | சந்திகளைப் பிரித்தறிந்து சொற்கட்டுகளை உருவாக்க மாணவர்கள் கற்றுக் கொண்டனர் |
| CO-2                | சொற்களின் வகைகளைப் பற்றி மாணவர்கள் கற்றுக் கொண்டனர்                       |
| CO-3                | சொற்களையும் அவற்றின் பொருளையும் மாணவர்கள் புரிந்து கொண்டனர்               |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>நீதி இலக்கியம்</b>  |
| <b>Code</b>         | <b>18TAU08</b>   |
|                     | <b>On completion of the course, students would be able to</b>                              |
| CO-1                | உலக நியதியை அறிந்து கொண்டு சமகால சமூகத்திற்கு உதவும் வகையில் மாண்புகளை வளர்த்துக் கொண்டனர் |
| CO-2                | சமயங்களின் நற்கருத்துக்களை நீதி இலக்கியங்களின் வழி உணர்ந்து கொண்டனர்                       |
| CO-3                | மனித நேய மாண்பைக் கற்றுக் கொள்கின்றனர்   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>நாடகவியல்</b>  |
| <b>Code</b>         | <b>18TAU09</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | நாடகத் தோற்றத்தால் தமிழர்களின் கலை உணர்வு நடிப்புத்திறன் குறித்துத் தெரிந்து கொண்டனர்                   |
| CO-2                | நாயன்மார்கள் ஆழ்வார்கள் இசைமூலம் நாடகத்தை வளர்த்த விதம் குறித்து நுட்பத்தை அறிந்தனர்                    |
| CO-3                | வரலாற்று நாடகங்கள் வாயிலாக தேச வரலாற்றையும் சுதந்திர போராட்ட வீரர்களின் தியாகத்தையும் உணர்ந்து கொண்டனர் |
| CO-4                | நாடகத்தின் கூறுகள் பண்புகள் வாயிலாக தாய்மொழியின் மாண்பினைத் தெரிந்து கொண்டனர்                           |
| CO-5                | காலந்தோறும் நாடகங்கள் உணர்த்தும் சமூகச்சிக்கல்களை, நாடகத்தின் வழி அறிந்து கொண்டனர்                      |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>இலக்கணம்-IV<br/>நம்பியகப்பொருள்</b>   |
| <b>Code</b>         | <b>18TAU10</b>   |
|                     | <b>On completion of the course, students would be able to</b>                                      |
| CO-1                | இயற்கையோடு இயைந்த வாழ்க்கை முறையின் அவசியத்தை அக இலக்கணம் வழி உணர்ந்து கொண்டனர்                    |
| CO-2                | ஏழுதிணை மக்களின் வாழ்வியலையும் சமுதாயக் கட்டமைப்பையும் கற்றுக் கொண்டனர்                            |
| CO-3                | களவு மற்றும் கற்பு வாழ்க்கை முறையை அறிந்துகொண்டு இவ்வாழ்வில் அறத்தொடு வாழ்வதற்கு நெறிப்படுகின்றனர் |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>சமய இலக்கியமும் சிற்றிலக்கியமும்</b>  |
| <b>Code</b>         | <b>18TAU11</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | இறைவனிடத்தில் சங்கச் சான்றோர் பெற்ற பிறவிப்பயன் குறித்தும், மனப்பக்குவம் குறித்தும் அறிந்து கொண்டனர் |
| CO-2                | மனித நேயம் குறித்த அறிவினைப் பெற்றனர்  |
| CO-3                | பழந்தமிழர்கள் மதித்த மதநல்லிணக்கம் குறித்தும் ஒருமைப்பாடு குறித்தும் தெளிவு அடைந்தனர்                |
| CO-4                | தமிழக மன்னர்கள் தமிழைப் போற்றிய விதம், பண்பாடு பற்றிய செய்திகளை உணர்ந்தனர்                           |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>மொழியியல்</b>  |
| <b>Code</b>         | <b>18TAU12</b>  |
|                     | <b>On completion of the course, students would be able to</b>                         |
| CO-1                | மொழியின் அமைப்பினை மாணவர்கள் அறிந்து கொண்டனர்   |
| CO-2                | தமிழ் மொழி குறித்தும் திராவிட மொழிகள் குறித்தும் இலக்கண அடிப்படையில் கற்று உணர்ந்தனர் |
| CO-3                | மொழியியல் கோட்பாடுகள் வழி கலைச் சொற்கள் கற்றுத் தெளிந்தனர்                            |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>இலக்கணம் - V<br/>புறப்பொருள் வெண்பாமாலை</b>  |
| <b>Code</b>         | <b>18TAU13</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | பழந்தமிழ் மக்களின் வீரம் முறையான போர்முறைகொடை போன்ற புறவாழ்வு விழுமியங்களை இலக்கண அடிப்படையில் மாணவர்கள் கற்றுக் கொண்டனர் |
| CO-2                | தமிழரின் மறத்திலும் அறத்தின் மாண்பினையும் மதிப்பினையும் அறிந்து கொண்டனர்  |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>காப்பியங்கள்</b>  |
| <b>Code</b>         | <b>18TAU14</b>   |
|                     | <b>On completion of the course, students would be able to</b>            |
| CO-1                | காப்பியங்களின் தோற்றம், வகைகள் அதன் பங்களிப்பு குறித்து அறிந்து கொண்டனர் |
| CO-2                | காப்பியங்கள் மக்களின் வாழ்வியல் களஞ்சியமாகத் திகழ்வதை உணர்ந்து கொண்டனர்  |
| CO-3                | புராணங்களில் இடம்பெறும் காப்பிய வடிவக் கூறுகளைத் தெரிந்து கொண்டனர்       |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>இலக்கியத் திறனாய்வியல்</b>   |
| <b>Code</b>         | <b>18TAU15</b>  |
|                     | <b>On completion of the course, students would be able to</b>                             |
| CO-1                | இலக்கியங்களைத் திறனாய்வு செய்யும் திறனைப் பெற்றனர்  |
| CO-2                | திறனாய்வின் வகைகள் இலக்கியங்கள் தோன்றிய காலம் புலவர்களின் திறன் பற்றித் தெரிந்து கொண்டனர் |
| CO-3                | குலையே சிறந்த வழிகாட்டும் திறன் கொண்டது என்பதையும் தெளிவு பெற்றனர்                        |
| CO-4                | இக்கால இலக்கியங்கள் ஏற்படுத்தும் சமூக விழிப்புணர்வு குறித்தும் அறிந்து கொண்டனர்           |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>மொழிபெயர்ப்பியல்</b>   |
| <b>Code</b>         | <b>18TAU16</b>  |
|                     | <b>On completion of the course, students would be able to</b>                                       |
| CO-1                | மொழிகளின் சிறப்புக் கூறுகளையும் மொழி பெயர்ப்பதில் ஏற்படும் சிக்கல்களையும் மாணவர்கள் அறிந்துகொண்டனர் |
| CO-2                | வேலை வாய்ப்பைப் பெற மொழி பெயர்ப்பியல் இன்றியமையாதது என்பதை உணர்ந்து அதன் நுட்பங்களைக் கற்றனர்       |
| CO-3                | மொழிபெயர்ப்பியலின் அடிப்படைக் கோட்பாடுகளையும் அதன் நுட்பங்களையும் மாணவர்கள் கற்றுக் கொண்டனர்        |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Discipline Specific Elective - I</b><br><b>இதழியல்</b>   |
| <b>Code</b>         | <b>18TAU17A</b>   |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | இதழியல் துறையின் அடிப்படைக் கட்டமைப்பை அறிந்து கொண்டனர்   |
| CO-2                | செய்தி ஆசிரியர், நிறுவனங்களின் சமூகக் கடமையையும் உணர்ந்து கொண்டனர்                                      |
| CO-3                | இதழ்களின் தோற்றமும் அதன் வளர்ச்சியும் சமூக மாற்றத்திற்கு ஆற்றும் பணியின் சிறப்பைக் கற்றுக் கொள்கின்றனர் |
| CO-4                | தற்கால மின் சாதனங்கள் இணையம் முதலானவற்றைப் பயன்படுத்தக் கற்றுக் கொண்டனர்                                |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Discipline Specific Elective - I</b><br><b>இந்திய தத்துவ ஞானம்</b>        |
| <b>Code</b>         | <b>18TAU17B</b>  |
|                     | <b>On completion of the course, students would be able to</b>                |
| CO-1                | தொன்மை இந்தியாவின் பழம்பெரும் பண்பாட்டுச் சிறப்பை மாணவர்கள் அறிந்து கொண்டனர் |
| CO-2                | மானுட நலவாழ்வுக்கான தத்துவங்கள் குறித்து தெளிவு பெற்றனர்                     |
| CO-3                | சைவசித்தாந்தத்தின் பன்முகப்பரிமாணங்களை மாணவர்கள் உணர்ந்தனர்                  |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>இலக்கணம்-VI</b><br><b>யாப்பருங்கலக்காரிகை, தண்டியலங்காரம்</b> |
| <b>Code</b>         | <b>18TAU18</b>   |
|                     | <b>On completion of the course, students would be able to</b>    |
| CO-1                | தமிழ் இலக்கண பா வகைகளைப் பற்றி அறிந்து கொண்டனர்                  |
| CO-2                | செய்யுளுக்கு அணியாகத் திகழும் அணி வகைகளைக் கற்றனர்               |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>சங்க இலக்கியம்</b>  |
| <b>Code</b>         | <b>18TAU19</b>   |
|                     | <b>On completion of the course, students would be able to</b>            |
| CO-1                | சங்கத்தமிழரின் வாழ்வியல் மாண்புகளைச் சங்கப்பாடல்கள் வழி அறிந்து கொண்டனர் |
| CO-2                | பண்டைய மக்களின் சமூகக் கட்டமைப்பு, ஒழுகலாறுகளை உணர்ந்து கொண்டனர்         |
| CO-3                | இயற்கையோடு இயைந்த வாழ்க்கையையும் நாகரிகத்தையும் கற்றுக் கொண்டனர்         |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>தமிழ் இலக்கிய வரலாறு</b>   |
| <b>Code</b>         | <b>18TAU20</b>  |
|                     | <b>On completion of the course, students would be able to</b>         |
| CO-1                | பன்முக நோக்கில் இலக்கிய வரலாற்றுப் பகுதிகளை மாணவர்கள் தெளிவு பெற்றனர் |
| CO-2                | போட்டித் தேர்வுகளுக்கான நுட்பங்களை மாணவர்கள் கற்றுக் கொண்டனர்         |
| CO-3                | இக்கால இலக்கியத்தைப் படைப்பியல் நோக்கில் மாணவர்கள் அறிந்தனர்          |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>ஒப்பிலக்கியம்</b>   |
| <b>Code</b>         | <b>18TAU21</b>   |
|                     | <b>On completion of the course, students would be able to</b>                          |
| CO-1                | இலக்கியங்களின் ஒப்புமைத் தன்மையை மாணவர்கள் அறிந்துகொண்டனர்                             |
| CO-2                | இலக்கியத்திற்கும் பிறகலைகளுக்கும் உள்ள ஒப்புமையை ஆராய்ந்து அறிந்து கொண்டனர்            |
| CO-3                | ஒப்பிலக்கியம் குறித்த கோட்பாடுகளையும் அதன் உட்பிரிவுகளையும் மாணவர்கள் கற்றுக் கொண்டனர் |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Discipline Specific Elective - II</b><br>கோயில்கலை         |
| <b>Code</b>         | <b>18TAU22A</b>   |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | தமிழர் தம் பண்பாட்டோடு இணைந்த கலை நுட்பத்தை கற்றுக் கொண்டனர்  |
| CO-2                | கோயில் கலையின் வகைகளை உணர்ந்து பயன் பெற்றனர்                  |
| CO-3                | தமிழரின் ஓவியச்சிறப்பை அறிந்து கொண்டனர்                       |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Discipline Specific Elective - II</b><br>கல்வெட்டியல்      |
| <b>Code</b>         | <b>18TAU22B</b>   |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | பழந்தமிழ் எழுத்துக்களை அறிந்து கொண்டனர்                       |
| CO-2                | பண்டைய கல்வெட்டுக்களின் சிறப்புகளை உணர்ந்தனர்                 |
| CO-3                | ஆவணப் பதிவு முறை பற்றி தெளிவு பெற்றனர்                        |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Generic Elective Course – Cluster III</b><br>கலையும் பண்பாடும்     |
| <b>Code</b>         | <b>18GECTAUU</b>  |
|                     | <b>On completion of the course, students would be able to</b>         |
| CO-1                | தமிழர்களின் கலைகள், பண்பாட்டின் சிறப்புகளை அறிந்து கொண்டனர்           |
| CO-2                | பழந்தமிழர்கள் போற்றிய பண்பாட்டு மாண்பினை உணர்ந்து கொண்டனர்            |
| CO-3                | தமிழர் கலை, பண்பாட்டின் வழி வாழ்வியல் விழுமியங்களைக் கற்றுக் கொண்டனர் |



Since 1947

# PSG College of Arts & Science Coimbatore – 641 014

## Programme: BA Carnatic Music

### Programme Outcomes

|      | On completion of the programme, the student will be able to  |
|------|--|
| PO-1 | Become knowledgeable in the subject of music and apply the principles of the same to the needs of the Employer/ Institution/Own business or Enterprise |
| PO-2 | Gain Analytical skills in the field or area of Carnatic Music  |
| PO-3 | Understand and appreciate professional ethics, community living and Nation building initiatives  |
| PO-4 | Become a performer in all branches of Music like Classical, Devotional, Light and Folk   |
| PO-5 | Work in the field of Dance, Drama , Audio and film industry  |
| PO-6 | Pursue higher studies to become a musicologist and Researcher  |
| PO-7 | Pursue musical journalist  |
| PO-8 | Entrepreneur in Music Institutions, Musical Shop, Making and maintaining Instruments   |

### Programme Specific Outcomes

|       | On completion of the programme, the student will be able to  |
|-------|--|
| PSO-1 | Apply the knowledge of Music in the domain of Carnatic Music   |
| PSO-2 | Solve the complex problems in the field of Music with an understanding of the societal, legal and cultural impacts of the solution |
| PSO-3 | Music Graduates will become a entrepreneur in the various filed of Music Industry  |
| PSO-4 | Form a part of member in a team with right attitudes   |

### Course Outcomes

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core</b><br><b>THEORY OF INDIAN MUSIC PAPER –I</b>                |
| <b>Code</b>         | <b>19MUU01</b>   |
|                     | <b>On completion of the course, students would be able to</b>        |
| CO-1                | Students become familiar with the Basic Terminologies of the subject |
| CO-2                | Students would understand the values of music and get motivated      |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core</b><br><b>KALPITHA SANGITHA –PRACTICAL PAPER -I</b>   |
| <b>Code</b>         | <b>19MUU02 / 20MUU02</b>                                      |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Students become familiar to sing along with the tala          |
| CO-2                | Their voice become trained to sing in 3 Octaves               |
| CO-3                | They are able to sing the basic exercises of svaras fluently  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Allied</b><br><b>ABHYASAGANAM- PAPER-I</b><br><b>VEENA PRACTICAL</b>                           |
| <b>Code</b>         | <b>19MUU03</b>  |
|                     | <b>On completion of the course, students would be able to</b>                                     |
| CO-1                | They will become familiar about the traditional Music Instruments                                 |
| CO-2                | They are able to play simultaneously both the main and tala strings with various plucking methods |
| CO-3                | They are familiar to play various basic svarasthanas through the basic exercises                  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core</b><br><b>THEORY OF INDIAN MUSIC PAPER –II</b>                      |
| <b>Code</b>         | <b>19MUU04</b>  |
|                     | <b>On completion of the course, students would be able to</b>               |
| CO-1                | Students become familiar with Various type of Ragas and their Lakshnas      |
| CO-2                | Students are Introduced to classification of various Musical forms          |
| CO-3                | Students come to know about the musical forms figured in Dance performances |
| CO-4                | Knowledge about the composers in this course                                |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core</b><br><b>KALPITHA SANGITHA –PRACTICAL PAPER -II</b>       |
| <b>Code</b>         | <b>19MUU05 / 20MUU05</b>   |
|                     | <b>On completion of the course, students would be able to</b>      |
| CO-1                | Students get trained in vocal techniques                           |
| CO-2                | They are familiar with the fundamental Talas in various LaghuJatis |
| CO-3                | They are trained to sing the devotional musical forms              |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Allied</b><br><b>ABHYASA GANAM PAPER-II -PRACTICAL VEENA</b> |
| <b>Code</b>         | <b>19MUU06</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Students get trained in fingering techniques to play veena      |
| CO-2                | They are trained to play various gamakas                        |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core</b><br><b>THEORY OF INDIAN MUSIC –III</b>  |
| <b>Code</b>         | <b>19MUU07</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Get the Idea about the various Music Organization and their Contribution both government and Private Organizations |
| CO-2                | They know about the various gamakas used in Carnatic Music which is very essential to the learners                 |
| CO-3                | Know about the Structure of the Varnam, krithi and Kirthana Forms and lakshnas of the Ragas                        |
| CO-4                | They are familiar with classification of various musical Instruments   |
| CO-5                | Know about the musical Trinities and earlier composers   |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core</b><br><b>KALPITHA SANGITHA PRACTICAL – III</b>                        |
| <b>Code</b>         | <b>19MUU08</b>   |
|                     | <b>On completion of the course, students would be able to</b>                  |
| CO-1                | Students gain knowledge in frame various phrases in different Melakartha ragas |
| CO-2                | Students gain knowledge in applying different jathis in tala                   |
| CO-3                | Students able to sing advanced technical exercises                             |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Allied</b><br><b>MUSICAL FORMS PAPER I – ALLIED PRACTICAL VEENA</b> |
| <b>Code</b>         | <b>19MUU09</b>   |
|                     | <b>On completion of the course, students would be able to</b>          |
| CO-1                | The students are able to play different musical forms in Veena         |
| CO-2                | Students understand the different level of playing techniques          |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core</b><br><b>THEORY OF INDIAN MUSIC PAPER –IV</b>  |
| <b>Code</b>         | <b>19MUU10</b>  |
|                     | <b>On completion of the course, students would be able to</b>                                     |
| CO-1                | Awareness about the Sabhas and their Activities in and around Coimbatore                          |
| CO-2                | By attending live concerts they are able to understand the nuances of music                       |
| CO-3                | They know how the artists are honored by the society  |
| CO-4                | Updating of knowledge through the Medias and Magazines  |
| CO-5                | They understood the nuances of Tala and various musical forms used both Dance and Music programme |
| CO-6                | Knowledge about the structure and playing techniques of the Various Music Instruments             |
| CO-7                | They know the biography of various Vaggeyakaras   |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core</b><br><b>KALPITHA SANGITHA PRACTICAL – IV</b>                           |
| <b>Code</b>         | <b>19MUU11</b>   |
|                     | <b>On completion of the course, students would be able to</b>                    |
| CO-1                | Acquire knowledge about the application of 35 talas in various Sampoorna Rags    |
| CO-2                | By learning the varnam they are familiar with various formation of svara phrases |
| CO-3                | By learning Pancharatnam students got an idea to sing kalpanasvara               |
| CO-4                | Students are able to sing advanced musical forms rendered in performance         |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Allied</b><br><b>MUSICAL FORMS –Paper –II</b><br><b>ALLIED PRACTICAL VEENA</b> |
| <b>Code</b>         | <b>19MUU12</b>  |
|                     | <b>On completion of the course, students would be able to</b>                     |
| CO-1                | The students are able to play different musical forms with gamakas                |
| CO-2                | Students understand the advanced level of playing techniques                      |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>THEORY OF INDIAN MUSIC PAPER –V</b>               |
| <b>Code</b>         | <b>19MUU13</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Students get knowledge to analyze the musical forms           |
| CO-2                | Gain knowledge about the ManodharmaSangitha and its divisions |
| CO-3                | Knowledge about the Katcheri Dharma                           |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>HISTORY OF INDIAN MUSIC</b>  |
| <b>Code</b>         | <b>19MUU14</b>   |
|                     | <b>On completion of the course, students would be able to</b>                                |
| CO-1                | Students gain knowledge about the ancient history of music through Lakshnagrاندhas           |
| CO-2                | Knowledge about the sacred musical forms in various Languages                                |
| CO-3                | Knowledge about the music and musical Instruments used in Temple Rituals                     |
| CO-4                | Students gain knowledge about the sources available to construct the History of Indian music |
| CO-5                | Knowledge about the famous places of music   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>KALPITHA SANGITHA PRACTICAL – V</b>               |
| <b>Code</b>         | <b>19MUU15</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Students learn the advanced technical Musical Forms           |
| CO-2                | Students are trained to sing the group kritis                 |
| CO-3                | Students are trained to sing the kritis in Various ragas      |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>KALPITHA SANGITHA PRACTICAL – VI</b>   |
| <b>Code</b>         | <b>19MUU16</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Students are trained to sing various composition by different vaggeyakaras   |
| CO-2                | Students are trained to sing various sacred musical forms in various languages and the forms figuring in Isai Natakams |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>MANODHARMA SANGITHA PRACTICAL – I</b>                                 |
| <b>Code</b>         | <b>19MUU17</b>  |
|                     | <b>On completion of the course, students would be able to</b>                     |
| CO-1                | Students were trained to sing raga alapana and kalpanasvaras for the compositions |
| CO-2                | Trained to sing niraval   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Discipline Specific Elective -1<br/>TAMIL MUSIC</b>        |
| <b>Code</b>         | <b>19MUU18A / 20MUU18A</b>                                    |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Development in singing sacred musical forms in Tamil          |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Discipline Specific Elective -1<br/>RITUALISTIC MUSIC</b>             |
| <b>Code</b>         | <b>19MUU18B / 20MUU18B</b>   |
|                     | <b>On completion of the course, students would be able to</b>            |
| CO-1                | Students are trained to sing the musical forms which are used in rituals |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>PHYSICS OF MUSIC</b>  |
| <b>Code</b>         | <b>19MUU19</b>  |
|                     | <b>On completion of the course, students would be able to</b>                                     |
| CO-1                | Students gain knowledge about the various scientific technologies used in music                   |
| CO-2                | Students thoroughly understand the sruti values which helps them to sing the ragas with the Bhava |
| CO-3                | Students understood about the sound system  |
| CO-4                | Students understand about the recent developments in the field of music                           |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>KALPITHA SANGITHA PRACTICAL – VII</b>                           |
| <b>Code</b>         | <b>19MUU20 / 20MUU20</b>  |
|                     | <b>On completion of the course, students would be able to</b>               |
| CO-1                | Students are trained to sing various composition by different vaggeyakaras  |
| CO-2                | Students are trained to sing chowka kala kritis and kritis in various Ragas |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>MANODHARMA SANGITHA PRACTICAL – II</b>            |
| <b>Code</b>         | <b>19MUU21</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Students get trained to become a performer and music composer |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>CONCERT PRACTICAL</b>                             |
| <b>Code</b>         | <b>19MUU22</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Students able to perform with accompaniments                  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>PROJECT - MUSIC AND TECHNOLOGY</b>                |
| <b>Code</b>         | <b>19MUU23</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Students got experience in tuning and using audio equipments  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Discipline Specific Elective - II<br/>PATRIOTIC SONG</b>                               |
| <b>Code</b>         | <b>19MUU24A / 20MUU24A</b>  |
|                     | <b>On completion of the course, students would be able to</b>                             |
| CO-1                | Students trained to sing the songs on Patriotism which will be useful for school teaching |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Discipline Specific Elective - II<br/>FOLK MUSIC</b>       |
| <b>Code</b>         | <b>19MUU24B / 20MUU24B</b>                                    |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Trained to sing Folk Songs                                    |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Generic Elective Course – EDC<br/>DEVOTIONAL MUSIC</b>     |
| <b>Code</b>         | <b>19GECMUU</b>   |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Trained to sing Devotional Songs                              |



Since 1947

# PSG College of Arts & Science Coimbatore – 641 014

## Programme: BCom Corporate Secretaryship

### Programme Outcomes

|      | On completion of the programme, the student will be able to  |
|------|--|
| PO-1 | Become knowledgeable in the subject of <b>Corporate Laws</b> and apply the principles of the same to the requirements of the Employer / Institution / Own Business or Enterprise |
| PO-2 | Gain Analytical skills in the field/area of <b>Accounting and Taxation</b>   |
| PO-3 | Understand and Appreciate Professional Ethics, Community Living and Nation Building Initiatives  |
| PO-4 | Capable of handling several departments in companies   |
| PO-5 | Understanding and giving solutions to varied Financial Problems.   |
| PO-6 | Able to identify and adopt compliance formalities in Company Administration.   |

### Programme Specific Outcomes

|       | On completion of the programme, the student will be able  |
|-------|---|
| PSO-1 | Inculcating analytical heart and mind to manage day- to- day business activities  |
| PSO-2 | Solve the practical problems in the area of <b>Company Administration and GST</b> in conformity with the Societal, Legal and Cultural environment |
| PSO-3 | Understand the problems of Corporate sector and inculcate in required skills for better Corporate Management                                      |
| PSO-4 | Be an active member of a corporate team with Leadership Attitude.   |

### Course Outcomes

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>FINANCIAL ACCOUNTING -I</b>  |
| <b>Code</b>         | <b>18CSU01</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Prepare final accounts of any business Concern with adjustments  |
| CO-2                | Maintain all account books under consignment transactions and prepare all accounts relating to consignment |
| CO-3                | Maintain all account books in joint venture and prepare all accounts related thereto                       |
| CO-4                | Maintain self balancing and sectional balancing ledger   |
| CO-5                | Prepare all accounting documents of any non – profit organization  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>PRINCIPLES OF MANAGEMENT</b>  |
| <b>Code</b>         | <b>18CSU02</b>  |
| <b>CO No.</b>       | <b>On completion of the course, students would be able to</b>   |
| CO-1                | A part of the middle level management team in any Business organization                               |
| CO-2                | Formulate policies and procedures and to plan various day to day operational business activities      |
| CO-3                | Cultivate the qualities of a business leader in long term and be able to motivate one self and others |
| CO-4                | Handle and operate various control mechanism in a business organization                               |
| CO-5                | Tackle the changing business scenario and its challenges by utilizing the new emerging technologies   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>FINANCIAL ACCOUNTING -II</b>                                    |
| <b>Code</b>         | <b>18CSU04</b>  |
| <b>CO No.</b>       | <b>On completion of the course, students would be able to</b>               |
| CO-1                | Prepare accounts under single entry system and convert it into double entry |

|      |  |
|------|--|
|      | system   |
| CO-2 | Prepare accounts for hire purchase system                            |
| CO-3 | Prepare and maintain accounting records for Royalty                  |
| CO-4 | Work out average due date and prepare Account current statements     |
| CO-5 | Apply tally software package relating to financial accounting system |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>BUSINESS COMMUNICATION</b>                                    |
| <b>Code</b>         | <b>18CSU05</b>  |
| <b>CO No.</b>       | <b>On completion of the course, students would be able to</b>             |
| CO-1                | Capable of overcoming barriers in communication                           |
| CO-2                | Effectively draft all types of business letters                           |
| CO-3                | Practice the various aspects of company correspondence                    |
| CO-4                | Utilize the effective public speaking skills for professional Development |
| CO-5                | Create presentations with visual appeal using electronic media            |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>BUSINESS LAWS</b>                                 |
| <b>Code</b>         | <b>18CSU07</b>  |
| <b>CO No.</b>       | <b>On completion of the course, students would be able to</b> |
| CO-1                | Understand various terms used in Indian Contract Act          |
| CO-2                | Demonstrate understanding of Partnership Act                  |
| CO-3                | Understand recent amendments in different Acts                |
| CO-4                | Identify Contract remedies                                    |
| CO-5                | Analyze Contract of Indemnity and Guarantee                   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>FINANCIAL ACCOUNTING - III</b>  |
| <b>Code</b>         | <b>18CSU08</b>  |
| <b>CO No.</b>       | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Prepare depreciation accounts of any business concern under various methods                                     |
| CO-2                | Apply the accounting practice for admission of partner  |
| CO-3                | Maintain all accounts books in case of retirement and death of partner and prepare all accounts related thereto |
| CO-4                | Prepare accounts for dissolution of partnership   |
| CO-5                | Prepare insolvency of partnership accounts  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>COMPANY LAWS AND SECRETARIAL PRACTICE -I</b>  |
| <b>Code</b>         | <b>18CSU09</b>  |
| <b>CO No.</b>       | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Understand the all steps for the formation of Companies   |
| CO-2                | Understand the procedure for Preparation of Memorandum of Association and Articles of Association and apply the rules for Alteration of Memorandum of Association and Articles of Association |
| CO-3                | Differentiate Between Concept of Capital and Financing of Companies   |
| CO-4                | Handle all legal and Practical matters of Private Placement and Prospectus.   |
| CO-5                | Apply the General Principles and Frame of Membership in a Company and their rights and liabilities.   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>BUSINESS ETHICS AND ENVIRONMENT</b>   |
| <b>Code</b>         | <b>18CSU10</b>  |
| <b>CO No.</b>       | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Understand, and evaluate various organizational Influences affecting ethical decisions  |
| CO-2                | Understand the concept, significance and changing dimensions of Business Environment  |
| CO-3                | Foresee the impact of socio-economic changes at the national and international levels on the firm's stability                                       |
| CO-4                | Understand the transnational character of environmental problems and ways of addressing them, including interactions across local to global scales. |
| CO-5                | Critically evaluate existing CSR initiatives, and appropriate courses of managerial action from a range of alternatives                             |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Interdisciplinary Course<br/>INFORMATION TECHNOLOGY</b>    |
| <b>Code</b>         | <b>18CSU11</b>  |
| <b>CO No.</b>       | <b>On completion of the course, students would be able to</b> |
| CO-1                | Apply information technology in business practices            |
| CO-2                | Use e-mail and search engines in an effective manner          |
| CO-3                | Use E-Commerce, E-Banking and M-Commerce in practice          |
| CO-4                | Effectively use social media for business promotion           |
| CO-5                | Use MS office applications in business                        |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>GENERAL LAWS AND PROCEDURES - I</b>  |
| <b>Code</b>         | <b>18CSU12</b>   |
| <b>CO No.</b>       | <b>On completion of the course, students would be able to</b>                                  |
| CO-1                | Apply general principles of laws in interpretation of statutes                                 |
| CO-2                | Apply Fundamental rights and directive principles of state policy in making business decisions |
| CO-3                | Understand tortuous liability  |
| CO-4                | Understand discretion of courts and arbitration proceedings                                    |
| CO-5                | Draft period of limitation and applicability of Right to Information Act 2005                  |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>CORPORATE ACCOUNTING -I</b>  |
| <b>Code</b>         | <b>18CSU13</b>   |
| <b>CO No.</b>       | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Maintain accounting and other records for the issue of shares and debentures   |
| CO-2                | Prepare financial statements of Companies in accordance with the provisions of companies Act 2013  |
| CO-3                | Prepare schemes of amalgamation, absorption and reconstruction and Would be able to prepare and maintain accounting records for these purposes |
| CO-4                | Prepare holding company accounts   |
| CO-5                | Understand the valuation of goodwill and shares  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>ECONOMIC LEGISLATION</b>  |
| <b>Code</b>         | <b>18CSU14</b>  |
| <b>CO No.</b>       | <b>On completion of the course, students would be able to</b>                                     |
| CO-1                | Understand the provisions of various acts which are to be considered in corporate decision making |
| CO-2                | Know the various provisions regarding industrial license, procedures, SEZ Act, etc.               |
| CO-3                | Understand the various provisions regarding dealings in foreign exchange, exports of goods, etc.  |
| CO-4                | Understand the various provisions under consumer protection councils                              |
| CO-5                | Know the provisions which relates to Essential commodities  |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>COMPANY LAWS AND SECRETARIAL PRACTICE -II</b>  |
| <b>Code</b>         | <b>18CSU15</b>   |
| <b>CO No.</b>       | <b>On completion of the course, students would be able to</b>                                      |
| CO-1                | Understand the importance of the role of Directors   |
| CO-2                | Follow all the Procedure for appointment and removal of Auditors                                   |
| CO-3                | Conduct Various Kinds of Meeting. Capable of issuing Notice, Drafting Agenda and Preparing Minutes |
| CO-4                | Understand the application of legal steps for winding up of Companies                              |
| CO-5                | Capable of Preparing Various e-forms in MCA, XBRL, Compliance Certificate and Annual Return        |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Interdisciplinary Course<br/>MARKETING MANAGEMENT</b>      |
| <b>Code</b>         | <b>18CSU16</b>  |
| <b>CO No.</b>       | <b>On completion of the course, students would be able to</b> |
| CO-1                | Understand the market & market environment in India           |
| CO-2                | Understand the process of about product planning & pricing    |
| CO-3                | Understand the process of selecting a channels                |
| CO-4                | Identify the problems of retail Marketing & rural Marketing   |
| CO-5                | Identify the recent issues & development in current marketing |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>INDUSTRIAL LAW</b>  |
| <b>Code</b>         | <b>18CSU17</b>  |
| <b>CO No.</b>       | <b>On completion of the course, students would be able to</b>           |
| CO-1                | Understand various provisions used in Industrial Law                    |
| CO-2                | Become a part of the Middle level Management in Industries              |
| CO-3                | Understand recent amendments in different acts                          |
| CO-4                | Perform duty of Law Advisor for Industries                              |
| CO-5                | Critically analyze the duties of Various authorities in Industrial Acts |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>TAXATION LAW AND PRACTICE</b>                       |
| <b>Code</b>         | <b>18CSU18</b>  |
| <b>CO No.</b>       | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Understand the basic concepts of Income Tax                     |
| CO-2                | Compute total Income and tax Liabilities'                       |
| CO-3                | File Income tax return on individual basis                      |
| CO-4                | Understand the amendments made from time to time in Finance Act |
| CO-5                | Understanding the power of Income Tax                           |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>CORPORATE ACCOUNTING -II</b>                          |
| <b>Code</b>         | <b>18CSU19</b>  |
| <b>CO No.</b>       | <b>On completion of the course, students would be able to</b>     |
| CO-1                | Prepare banking company accounts                                  |
| CO-2                | Prepare insurance company accounts                                |
| CO-3                | Know about preparing double accounting system                     |
| CO-4                | Know about concepts of maintaining branch & departmental accounts |
| CO-5                | Understand accounting of fire claim and claim loss of profit      |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>GENERAL LAWS AND PROCEDURES – II</b>                              |
| <b>Code</b>         | <b>18CSU20</b>  |
| <b>CO No.</b>       | <b>On completion of the course, students would be able to</b>                 |
| CO-1                | Prepare plaint and defense statements   |
| CO-2                | Distinguish different offences and use it in the management company affairs   |
| CO-3                | Understand the Indian Evidence Act 1872                                       |
| CO-4                | Apply intellectual property rights in making business decisions               |
| CO-5                | Draft extracts for sale and sales deeds and mortgage deeds of different types |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Discipline Specific Elective – I<br/>COST ACCOUNTING</b>                        |
| <b>Code</b>         | <b>18CSU22A</b>  |
| <b>CO No.</b>       | <b>On completion of the course, students would be able to</b>                      |
| CO-1                | Prepare cost sheet and various cost accounting records                             |
| CO-2                | Establish and administer the material control and issues techniques in any concern |
| CO-3                | Apply accounting for labour in any concern   |
| CO-4                | Prepare and maintain accounting records for apportionment of overheads             |
| CO-5                | Apply the methods of costing techniques in any concern                             |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Discipline Specific Elective – I<br/>PERSONNEL MANAGEMENT</b>  |
| <b>Code</b>         | <b>18CSU22B</b>   |
| <b>CO No.</b>       | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Know the concept of Human Resource Management, policies and procedures  |
| CO-2                | Obtain the knowledge of manpower planning, training and development   |
| CO-3                | Understand about performance appraisal and human relations  |
| CO-4                | Learn the wages and salary administration   |
| CO-5                | Measure, improve and inculcate the different types of performance appraisal strategies used in the organization |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>BANKING AND FINANCIAL SERVICES</b>                |
| <b>Code</b>         | <b>18CSU23</b>  |
| <b>CO No.</b>       | <b>On completion of the course, students would be able to</b> |
| CO-1                | Understand the theories and concepts of banking in practice   |
| CO-2                | Capable of using KYC norms and cheques                        |
| CO-3                | Utilize the E-banking services effectively                    |
| CO-4                | Develop different types of insurance policie                  |
| CO-5                | Invest effectively in mutual funds                            |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>MANAGEMENT ACCOUNTING</b>  |
| <b>Code</b>         | <b>18CSU24</b>   |
| <b>CO No.</b>       | <b>On completion of the course, students would be able to</b>                          |
| CO-1                | Analyze and differentiate the important concept of financial and management accounting |
| CO-2                | Identify and analyze problems and solutions in ratios                                  |
| CO-3                | Capable of handling fund and cash flow statements                                      |
| CO-4                | Frame the various sorts of budgets in management accounting                            |
| CO-5                | Find out the cost in variances   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>SECURITIES LAWS &amp; FINANCIAL MARKETS</b>   |
| <b>Code</b>         | <b>18CSU25</b>  |
| <b>CO No.</b>       | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Apply the knowledge gained about the capital and money market practices practically                                 |
| CO-2                | Learnt the conceptual matters related to SEBI   |
| CO-3                | Evaluate the current structure and regulation of the Indian financial services sector                               |
| CO-4                | Compare the services provided by financial institutions   |
| CO-5                | Analyze the overall nature of depositories regulation's in the legal framework as well the concept of credit rating |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>FINANCIAL MANAGEMENT</b>  |
| <b>Code</b>         | <b>18CSU26</b>  |
| <b>CO No.</b>       | <b>On completion of the course, students would be able to</b>                       |
| CO-1                | Demonstrate understanding of the Finance functions and goals of the finance manager |
| CO-2                | Prepare different capital investment proposal in the business                       |
| CO-3                | Apply measures of cost of Capital and Financial Leverage                            |
| CO-4                | Identify the working capital requirements in the business                           |
| CO-5                | Analyze a company's performance and make appropriate recommendations                |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Discipline Specific Elective – II<br/>GOODS AND SERVICES TAX</b>                |
| <b>Code</b>         | <b>18CSU28A</b>  |
| <b>CO No.</b>       | <b>On completion of the course, students would be able to</b>                      |
| CO-1                | Apply the General Principles and Frame of GST For Various application of its rules |
| CO-2                | Capable of Distinguishing Supply from other Concepts                               |
| CO-3                | Compute Input Tax Credit   |
| CO-4                | Follow the procedure for Registration  |
| CO-5                | Distinguishing Integrated Goods and Services Tax from other concepts               |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Discipline Specific Elective – II<br/>PRACTICAL AUDITING</b>                         |
| <b>Code</b>         | <b>18CSU28B</b>   |
| <b>CO No.</b>       | <b>On completion of the course, students would be able to</b>                           |
| CO-1                | Gain Knowledge on the Fundamental Concept of Auditing and Basic Qualities of an Auditor |
| CO-2                | Familiarize on the Internal Control and various types of Vouchers                       |
| CO-3                | Obtain Knowledge on the Verification and valuation of assets and liabilities            |
| CO-4                | Aware on Auditing in Companies and Rights, Duties and Liabilities of an Auditor         |
| CO-5                | Acquire knowledge about Investigation and Computer Based Accounting                     |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>EXTRA DEPARTMENTAL COURSE (EDC) – LAWS FOR LIFE</b>       |
| <b>Code</b>         | <b>18GECCSU</b>   |
| <b>CO No.</b>       | <b>On completion of the course, students would be able to</b>         |
| CO-1                | Handle and operate their personal and best accounts                   |
| CO-2                | Understand their fundamental rights and duties in Indian Constitution |
| CO-3                | Raise questions in Rights to Information Act                          |



Since 1947

# PSG College of Arts & Science Coimbatore – 641 014

## Programme: BSc Psychology

### Programme Outcomes

|      | <b>On completion of the programme, the student will be able to</b>   |
|------|--|
| PO-1 | Become knowledgeable in the subject of Psychology and apply the principles of the same to the needs of the Employer / Institution / own Business or Enterprise |
| PO-2 | Gain Analytical skills in the field/area of Psychology   |
| PO-3 | Understand and appreciate professional ethics, community living and Nation Building initiatives  |
| PO-4 | To prepare learners to compete in a continuously changing, and challenging workplace, and community  |
| PO-5 | To facilitate the pursuit of life of happiness, and abundance, and contribute to the mental and emotional well-being in all the stakeholders                   |

### Programme Specific Outcomes

|       | <b>On completion of the programme, the student will be able</b>   |
|-------|---|
| PSO-1 | Apply the knowledge of Psychology in the domain of Industrial/ Clinical/ Educational and in Entrepreneurship  |
| PSO-2 | Solve the complex problems in the field of Psychology with an understanding of the societal, legal and cultural impacts of the solution   |
| PSO-3 | Provide diversified course offerings designed to afford students the opportunity to gain awareness of the nature of the role of psychological processes operating within themselves and their environment |
| PSO-4 | Form a part of member in a team with right attitudes  |

**Course Outcomes**

| <b>Course Title</b> | <b>Core<br/>GENERAL PSYCHOLOGY – 1</b>   |
|---------------------|--|
| <b>Code</b>         | <b>18PSU01</b>   |
| <b>CO No.</b>       | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Understand meaning, history and various schools of psychology, methods of psychology and branches of basic and applied psychology                              |
| CO-2                | Explain meaning of sensation, sense organs and their functioning, perception principles, errors in perception, attention and its determinants                  |
| CO-3                | Understand the natural state of consciousness like biological rhythm, sleep, dream, sleep disorders and altered state of consciousness like hypnosis and drugs |
| CO-4                | Examine the nature of learning, theories of learning, applied behavioral analysis and the concept of learned helplessness                                      |
| CO-5                | Understand the memory, information processing model, brain mechanism of memory and various methods to improve memory   |

| <b>Course Title</b> | <b>Core<br/>DEVELOPMENTAL PSYCHOLOGY – I</b>   |
|---------------------|--|
| <b>Code</b>         | <b>18PSU02</b>   |
| <b>CO No.</b>       | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Analyse and apply developmental principles theories on their own lives and others                        |
| CO-2                | Objectively interpret physical, cognitive, communication, emotional and social development of the infant |
| CO-3                | Critically analyse and synthesize child developmental constructs and research                            |
| CO-4                | Apply knowledge of child development to facilitate and understanding of child developmental outcome      |
| CO-5                | Apply theories and scientific terms to real life situations involving children                           |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>ELEMENTS OF SOCIAL PSYCHOLOGY</b>                         |
| <b>Code</b>         | <b>18PSU03</b>  |
| <b>CO No.</b>       | <b>On completion of the course, students would be able to</b>         |
| CO-1                | Understand the nature of social psychology and the its methods        |
| CO-2                | Explain the nature, formation and measurement and change of attitudes |
| CO-3                | Understand the group and its formation, leadership and its styles     |
| CO-4                | Explain aggression its theories and pro – social behavior             |
| CO-5                | Understand the prejudice stereotypes and the methods of reducing them |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>EXPERIMENTAL PSYCHOLOGY: PRACTICAL – I</b>                    |
| <b>Code</b>         | <b>18PSU06 / 20PSU06</b>  |
| <b>CO No.</b>       | <b>On completion of the course, students would be able to</b>             |
| CO-1                | Assess and interpret the sensation and perception of individual           |
| CO-2                | Assess and interpret the attention, memory and learning of the individual |
| CO-3                | Acquire psychological skills in learning and memory domain                |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>GENERAL PSYCHOLOGY – II</b>   |
| <b>Code</b>         | <b>18PSU04</b>  |
| <b>CO No.</b>       | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Understand the cognition and its type like reasoning, problem solving, language, motivation, psychological and physiological motives, theories and concepts of conflict and frustration           |
| CO-2                | Explain the emotion, physiological changes, theories of stress, stressor, effects and coping mechanism  |
| CO-3                | Examine the meaning of intelligence, IQ, mental retardation, mentally gifted, theories of intelligence, emotional intelligence, creativity, its nature and characteristics of creative people     |
| CO-4                | Understand the meaning of personality, psychoanalytic and neo Freudian theory, humanistic, behaviouristic and trait theories, the modern big five factors and the biological basis of personality |
| CO-5                | Explain the psychological test and its characteristic like reliability, validity, test of intelligence, personality, aptitude, interest and achievement test                                      |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>DEVELOPMENTAL PSYCHOLOGY- II</b>   |
| <b>Code</b>         | <b>18PSU05</b>   |
| <b>CO No.</b>       | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Objectively interpret the impact of physical changes on the cognitive and emotional factors                        |
| CO-2                | Apply and analyse course material in relationship to adolescents in their own lives, to their own history          |
| CO-3                | Critically evaluate the importance of need for a stable family   |
| CO-4                | Analyse everyday (real- life) situations and apply the knowledge on people close to you like parents, grandparents |
| CO-5                | Illustrate and describe the biological, psychological, and social aspects of aging                                 |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>EXPERIMENTAL PSYCHOLOGY:PRACTICAL – I</b>  |
| <b>Code</b>         | <b>18PSU06</b>   |
| <b>CO No.</b>       | <b>On completion of the course, students would be able to</b>                                |
| CO-1                | Assess and interpret the level of intelligence and problem solving ability of the individual |
| CO-2                | Evaluate and improve the emotion, motivation and personality of the individual               |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>IDC – PSYCHOLOGICAL STATISTICS – I</b>                             |
| <b>Code</b>         | <b>18PSU07</b>   |
| <b>CO No.</b>       | <b>On completion of the course, students would be able to</b>                  |
| CO-1                | Understand the meaning of statistics, and know how to collect statistical data |
| CO-2                | Clarify and tabulating data and transferring them into diagrams and graphs     |
| CO-3                | Understand about the good average and application mean, median and mode        |
| CO-4                | Understand about dispersion and applications of QD, SD, MD                     |
| CO-5                | Understand the probability and its applications                                |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>SOCIAL PSYCHOLOGY</b>   |
| <b>Code</b>         | <b>18PSU08</b>  |
| <b>CO No.</b>       | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Describe factors that shape the self-concept and contribute to social cognition                         |
| CO-2                | Explain the psychological bases for attitude formation, and techniques to change attitude               |
| CO-3                | Evaluate the behavior of individuals in groups, and the group decision making                           |
| CO-4                | Analyze and interpret the concepts of social categorization, and interpersonal relationship             |
| CO-5                | Differentiate altruism and pro-social behavior, and review various perspectives on helping and altruism |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>PHYSIOLOGICAL PSYCHOLOGY</b>   |
| <b>Code</b>         | <b>18PSU09</b>   |
| <b>CO No.</b>       | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Describe the biological bases of behavior, and/or evolutionary psychology  |
| CO-2                | Discuss the importance of Neuroendocrine system and its role in gender development, and expression of personality        |
| CO-3                | Demonstrate the Brain structure and functions, and the neural development processes                                      |
| CO-4                | Demonstrate the structure of nervous system, role of neurotransmitters in gene expression, & cellular basis of addiction |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>EXPERIMENTAL PSYCHOLOGY (PRACTICAL – II)</b>      |
| <b>Code</b>         | <b>18PSU10 / 20PSU10</b>                                      |
| <b>CO No.</b>       | <b>On completion of the course, students would be able to</b> |
| CO-1                | Assess and interpret the social process                       |
| CO-2                | Assess and evaluate Personality, Intelligence and Aptitude    |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Allied<br/>IDC – PSYCHOLOGICAL STATISTICS - II</b>                                       |
| <b>Code</b>         | <b>18PSU11</b>  |
| <b>CO No.</b>       | <b>On completion of the course, students would be able to</b>                               |
| CO-1                | Gain the meaning and methods of sampling  |
| CO-2                | Understand the hypothesis and the application of test of significance like t-test and ANOVA |
| CO-3                | Learn and understand the meaning of correlation, regression and its calculations            |
| CO-4                | Acquire the knowledge about the meaning, nature, and application of non parametric test     |
| CO-5                | Gain knowledge about the concept and the importance of reliability and validity             |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>ABNORMAL PSYCHOLOGY - I</b>  |
| <b>Code</b>         | <b>18PSU12</b>   |
| <b>CO No.</b>       | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Learn historical background of abnormal behaviour and understanding the models of abnormality from different models        |
| CO-2                | Gain knowledge of different classification system and assessment strategies for mental & behavioural disorders             |
| CO-3                | Acquire knowledge about causes and symptoms of sleep, eating, stress, dissociative and somatoform disorders                |
| CO-4                | Understand the nature, causes and types of anxiety & sexual disorders  |
| CO-5                | Gain knowledge about personality disorders and understand the warning signs, symptoms and prevention strategies of suicide |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>INDUSTRIAL PSYCHOLOGY</b>  |
| <b>Code</b>         | <b>18PSU13</b>   |
| <b>CO No.</b>       | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Discuss the nature and scope of industrial psychology, and explain the historical developments in the field                      |
| CO-2                | Explain the concept of job analysis and demonstrate its application in the process of personnel selection                        |
| CO-3                | Explain the steps in recruitment and selection, and choose appropriate psychological tests in the process of personnel selection |
| CO-4                | Explain and differentiate various performance appraisal methods, and the managerial training programmes                          |
| CO-5                | Illustrate the importance of work environment, and the role of ergonomics in accident and boredom                                |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>EXPERIMENTAL PSYCHOLOGY – PRACTICAL III</b>                  |
| <b>Code</b>         | <b>18PSU14 / 20PSU14</b>   |
| <b>CO No.</b>       | <b>On completion of the course, students would be able to</b>            |
| CO-1                | Assess and interpret the various psychological process of the individual |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>LEGAL ASPECTS OF PSYCHOLOGY</b>  |
| <b>Code</b>         | <b>18PSU15</b>   |
| <b>CO No.</b>       | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Have theoretical knowledge on legal system and the role of psychology  |
| CO-2                | Explain various principles of psycho legal assessments and psychological tests in psycho legal work                        |
| CO-3                | Have a clear idea on the scope and the significance of legal psychology and various job opportunities for the psychologist |
| CO-4                | Sound knowledge on various acts , programs and services in law   |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>ABNORMAL PSYCHOLOGY – II</b>   |
| <b>Code</b>         | <b>18PSU16</b>   |
| <b>CO No.</b>       | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Identify the symptoms of schizophrenia and cognitive impairment disorders  |
| CO-2                | Gain knowledge about the symptoms and causes of substance use disorders and disorders of childhood & adolescence   |
| CO-3                | Acquire knowledge about the types, symptoms of autism spectrum disorders and also about the levels, causes and prevention strategies of mental retardation |
| CO-4                | Analyze the basic concepts and underlying theory of various forms of psychotherapy   |
| CO-5                | Acquire knowledge about the role of various prevention strategies and legal aspects related to maladaptive behaviours                                      |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>RESEARCH METHODS</b>   |
| <b>Code</b>         | <b>18PSU17</b>   |
| <b>CO No.</b>       | <b>On completion of the course, students would be able to</b>                                |
| CO-1                | Understand the meaning, process and types of scientific research                             |
| CO-2                | Gain knowledge about the significance of review of literature                                |
| CO-3                | Describe the principles and application of research design                                   |
| CO-4                | Analyse various data collection techniques and importance of standardization                 |
| CO-5                | Gain knowledge about the important criteria of report writing and ethical issues in research |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>PSYCHOLOGY FOR COMPETITIVE EXAMINATIONS</b>   |
| <b>Code</b>         | <b>18PSU19</b>  |
| <b>CO No.</b>       | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Relate and apply the psychological concepts from the competitive examination perspective                              |
| CO-2                | Display the reasoning skills, numerical ability and soft skills   |
| CO-3                | Apply and relate the knowledge of ICT, environment, education and polity from the competitive examination perspective |
| CO-4                | Perform better in the employment selection process  |
| CO-5                | Demonstrates good communication skill and displays effective strategies in the selection processes                    |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>EXPERIMENTAL PSYCHOLOGY : PRACTICAL – IV</b>                             |
| <b>Code</b>         | <b>18PSU20 / 20PSU20</b>   |
| <b>CO No.</b>       | <b>On completion of the course, students would be able to</b>                        |
| CO-1                | Analyze and interpret the psychological process through testing and write the report |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Discipline Specific Elective Course - 1<br/>FORENSIC &amp; CRIMINAL PSYCHOLOGY</b>                |
| <b>Code</b>         | <b>18PSU22A</b>  |
| <b>CO No.</b>       | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Distinguish the concepts of forensic science, forensic psychology and criminology                    |
| CO-2                | Describe Concept of crime in social context and evaluate the psychological theories related to crime |
| CO-3                | Identify various offenders, their nature and elaborate theories of various contexts                  |
| CO-4                | Illustrate the process of criminal investigation by police and crime assessment techniques           |
| CO-5                | Relate the psychological interventions and methods to prevent crime                                  |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>FUNDAMENTALS OF MARKETING AND CONSUMER BEHAVIOR</b>  |
| <b>Code</b>         | <b>18PSU23</b>   |
| <b>CO No.</b>       | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Develop an understanding of the marketing concepts and framework, marketing environment, covering basic elements of the marketing mix  |
| CO-2                | Gain knowledge about segmenting a market, strategies involved in selecting target segment, and positioning for each segment  |
| CO-3                | Explain branding concept, and understand how branding principles and marketing communication concepts and frameworks help achieve brand management goals and improve marketing performance |
| CO-4                | Explain the consumer behavior discipline, consumer decision making process, and consumer movement  |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>FUNDAMENTALS OF COUNSELLING</b>  |
| <b>Code</b>         | <b>18PSU24</b>   |
| <b>CO No.</b>       | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Demonstrate understanding of counseling practice as an applied behavior science                                  |
| CO-2                | Relates effectively with individuals, groups, communities and demonstrates the counseling practice               |
| CO-3                | Demonstrate knowledge of individual and group theories of counseling   |
| CO-4                | Selects and utilizes appropriate assessment measures across domains of functioning, practice settings and groups |
| CO-5                | Displays an appropriately defined professional identity and demonstrates concern for the welfare of others       |

| <b>Course Title</b> | <b>Core<br/>FUNDAMENTALS OF HEALTH PSYCHOLOGY</b>   |
|---------------------|---|
| <b>Code</b>         | <b>18PSU25</b>  |
| <b>CO No.</b>       | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Explain the mind-body relationship and the significance of the health psychology                            |
| CO-2                | Demonstrate the benefits of exercise, ways to prevent accidents and methods to screen for cancer            |
| CO-3                | Develop a healthy diet habits and learn to prevent obesity  |
| CO-4                | Narrate the causes and consequences of alcoholism and smoking   |
| CO-5                | Knew the ways to prevent and changing the health compromising behaviours                                    |
| CO-6                | Aware of nature, significance and the ways to control pain  |
| CO-7                | Explain the psycho-social risk factors of CHD, CVD, Stroke and Type II Diabetes& manage Type II Diabetes    |
| CO-8                | Explain the concept of psycho-neuro-immunology and psycho-social aspects of immune system related disorders |

| <b>Course Title</b> | <b>Core<br/>PSYCHOLOGY OF EXCEPTIONAL CHILDREN</b>   |
|---------------------|--|
| <b>Code</b>         | <b>18PSU26</b>   |
| <b>CO No.</b>       | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Understand the meaning of disability and exceptional children, problems of labeling them, and historical perspective   |
| CO-2                | Understand the meaning and objective of special children, and importance of individualized education program, mental retardation and how to educate those children |
| CO-3                | Understand the nature and types of hearing and visual impairment and the intervention strategies   |
| CO-4                | Understand the characteristics and causes of learning disabilities and gifted children, assessment and intervention  |
| CO-5                | Understand the type and treatment of communicative disorder, identification of autism, ADHD and educational measurement  |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>EXPERIMENTAL PSYCHOLOGY: PRACTICAL – V: CASE ANALYSIS</b>  |
| <b>Code</b>         | <b>18PSU27 /20PSU27</b>  |
| <b>CO No.</b>       | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Apply the various psychological principles in problem identification, assessment and interventions   |
| CO-2                | Analyze and explain the causes of problem using the given data   |
| CO-3                | Demonstrates a professional way of analyzing and interpreting data   |
| CO-4                | Formulates and conceptualize cases, plans interventions  |
| CO-5                | Applies concept of normal and abnormal behavior to case formulation, diagnosis, and treatment planning in the context of human development and diversity |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Discipline Specific Elective Course – II<br/>REHABILITATION PSYCHOLOGY</b>                        |
| <b>Code</b>         | <b>18PSU29A</b>  |
| <b>CO No.</b>       | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Understand the historical root, and scope of rehabilitation  |
| CO-2                | Understand treatment and services for drug abusers and victims of violence                           |
| CO-3                | Understand the mentally abnormal offenders, juvenile delinquents and learned the peer support system |
| CO-4                | Understand the physical and psychological disorders  |
| CO-5                | Understand the essential and self help groups for mental health                                      |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Discipline Specific Elective Course – II<br/>SPORTS PSYCHOLOGY</b>                                  |
| <b>Code</b>         | <b>18PSU29B</b>  |
| <b>CO No.</b>       | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Gain the knowledge about Sports Psychology and its Personality   |
| CO-2                | Understand the Personality development, Attitudes and Sport  |
| CO-3                | Learn and understand the Aggression and its factors in Sporting Performance                            |
| CO-4                | Acquire the knowledge about arousal, anxiety and motivation in Sport Performance                       |
| CO-5                | Gain knowledge about the skills acquisition and expertise and in Research methods in Sports Psychology |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Generic Elective Course - EDC<br/>PSYCHOLOGY FOR EFFECTIVE LIVING</b>                      |
| <b>Code</b>         | <b>18GECEDC</b>   |
| <b>CO No.</b>       | <b>On completion of the course, students would be able to</b>                                 |
| CO-1                | Restate the essence of the guidelines offered by Vedic literature towards a value driven life |
| CO-2                | Review the importance of emotional intelligence in life and profession                        |
| CO-3                | Appraise the role of creativity in social change  |
| CO-4                | Evaluate the importance of negotiation skills and conflict resolution in everyday life        |



Since 1947

# PSG College of Arts & Science Coimbatore – 641 014

## Programme: BSc Mathematics

### Programme Outcomes

|      | On completion of the programme, the student will be able to   |
|------|---|
| PO-1 | Become knowledgeable in the subject of mathematics and apply the principles of the same to the needs of the employer / institution / own business or enterprise                                     |
| PO-2 | Gain analytical skills in the field / area of mathematics   |
| PO-3 | Understand and appreciate professional ethics, community living and Nation-building initiatives   |
| PO-4 | Formulate and analyze mathematical problems, draw clear and reasonable conclusions and present to various audience both in oral and written format  |
| PO-5 | Read, understand and construct correct mathematical proofs and use mathematical techniques to solve real world problems and use the library and electronic data bases to locate information on them |
| PO-6 | Propose new mathematical questions and suggest possible software packages and/or computer programming to find solutions to these questions  |
| PO-7 | Continue to acquire mathematical knowledge and skills appropriate to professional activities and demonstrate highest standards of ethical issues in mathematics                                     |

### Programme Specific Outcomes

|       | On completion of the programme, the student will be able   |
|-------|--|
| PSO-1 | Apply the knowledge of mathematics in the domain of astronomy, finance and software developing   |
| PSO-2 | Solve the complex problems in the field of mathematics with an understanding of the societal, legal and cultural impacts of the solution |
| PSO-3 | Solve the complex problems in the field of linear and abstract algebra and design graphical structures for real world problems           |
| PSO-4 | Form a part of member in a team with right attitudes   |

**Course Outcomes**

| <b>Course Title</b> | <b>Core<br/>CALCULUS I</b>   |
|---------------------|--|
| <b>Code</b>         | <b>18MAU01 / 20MAU01</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Gain basic knowledge of vector-valued functions  |
| CO-2                | Use vector-valued functions to describe the motion of objects through space  |
| CO-3                | Become proficient in finding the surface areas and volumes of more general regions through double and triple integrals |
| CO-4                | Acquire knowledge in different coordinate systems such as polar, cylindrical and spherical coordinates                 |
| CO-5                | Gain concept of change of variables in multiple integrals  |

| <b>Course Title</b> | <b>Core<br/>DIFFERENTIAL EQUATIONS AND LAPLACE TRANSFORMS</b>                                  |
|---------------------|--|
| <b>Code</b>         | <b>18MAU02 / 20MAU02</b>   |
|                     | <b>On completion of the course, students would be able to</b>                                  |
| CO-1                | Understand the basic concepts of differential equations and its applications in various fields |
| CO-2                | Become proficient in solving differential equations with analytical methods                    |
| CO-3                | Develop mathematical models such as population and electrical circuit models                   |
| CO-4                | Find solutions by using Laplace transform technique  |
| CO-5                | Know the situations of mathematical model where delta functions arise and how to solve them    |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>CALCULUS II</b>   |
| <b>Code</b>         | <b>18MAU04 / 20MAU04</b>  |
|                     | <b>On completion of the course, students would be able to</b>                                   |
| CO-1                | Gain basic knowledge of sequences and series  |
| CO-2                | Become proficient in various convergence tests for infinite series                              |
| CO-3                | Use a power series to represent the functions that arise in mathematics, physics, and chemistry |
| CO-4                | Acquire skills in applying the line and surface integrals to different applications             |
| CO-5                | Solve problems in summations of trigonometric series  |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>ANALYTICAL GEOMETRY</b>  |
| <b>Code</b>         | <b>18MAU05 / 20MAU05</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Remember the equation of a line that passes through a given point which is parallel or perpendicular to a given line |
| CO-2                | Understand the results based on the properties of a sphere   |
| CO-3                | Identify conic sections  |
| CO-4                | Analyze the concepts of geometry   |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>PARTIAL DIFFERENTIAL EQUATIONS AND FOURIER<br/>TRANSFORM</b> |
| <b>Code</b>         | <b>18MAU07 / 20MAU07</b>   |
|                     | <b>On completion of the course, students would be able to</b>            |
| CO-1                | Gain basic knowledge of Partial Differential Equation & Fourier Analysis |
| CO-2                | Understand the concepts of Linear Partial Differential Equation          |
| CO-3                | Represent any functions in terms of Fourier Series and Fourier integral  |
| CO-4                | Acquire skills in applying heat equation to different applications       |
| CO-5                | Gain knowledge of application of Partial Differential Equation           |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>MECHANICS – I (STATICS)</b>                             |
| <b>Code</b>         | <b>18MAU08 / 20MAU08</b>  |
|                     | <b>On completion of the course, students would be able to</b>       |
| CO-1                | Know the effect of forces on bodies of such shape and size          |
| CO-2                | Solve a problem involving a particle in equilibrium                 |
| CO-3                | Become familiar in distinguishing external and internal forces      |
| CO-4                | Solve the problems involving rotation of a rigid body about an axis |
| CO-5                | Find the moment of inertia of various objects                       |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>MECHANICS – II (DYNAMICS)</b>   |
| <b>Code</b>         | <b>18MAU10 / 20MAU10</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Know the application to the solution of various problems involving the rectilinear and curvilinear motions of particles                             |
| CO-2                | Solve the natural problems using graphical methods  |
| CO-3                | Become proficient in the Newton's second law and its application to the analysis of the motion of particles   |
| CO-4                | Formulate the problems of space mechanics using the application of the principles of conservation of energy and of conservation of angular momentum |
| CO-5                | Gain concept of simple harmonic motion and their engineering applications   |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>NUMBER THEORY</b>  |
| <b>Code</b>         | <b>18MAU11 / 20MAU11</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Understand the basic concepts of Natural numbers   |
| CO-2                | Understand Prime and Composite numbers and Congruence  |
| CO-3                | Understand the concepts of Fermats and Wilson  |
| CO-4                | Understand wide applications in cryptography and network security  |
| CO-5                | Understand the potentiality to convert all the problems of modern mathematics into the problems of Number theory |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>ALGEBRA</b>                                       |
| <b>Code</b>         | <b>18MAU13 / 20MAU13</b>                                      |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Understand the groups and their properties                    |
| CO-2                | Understand the Normal subgroups and Quotient Group            |
| CO-3                | Understand about Automorphisms and permutations               |
| CO-4                | Understand about Maximal ideals and Euclidean rings           |
| CO-5                | Understand about Rings and special classes of rings           |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>REAL ANALYSIS</b>   |
| <b>Code</b>         | <b>18MAU14 / 20MAU14</b>  |
|                     | <b>On completion of the course, students would be able to</b>                           |
| CO-1                | Develop knowledge of the basic topology of the sets in real number system               |
| CO-2                | Gaining knowledge to analyze the convergence of the sequences and series                |
| CO-3                | Skill to prove the theorems on limits and continuity                                    |
| CO-4                | Understand the differentiability of the functions and proving some fundamental theorems |
| CO-5                | Understand the concepts of L' Hospital's rule and expansion of series                   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>ASTRONOMY</b>                                     |
| <b>Code</b>         | <b>18MAU20 / 20MAU15</b>                                      |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Understand the concepts on celestial sphere                   |
| CO-2                | Understand the different Zones of earth                       |
| CO-3                | Understand the concepts of parallax and light-year            |
| CO-4                | Understand the applications of Kepler's laws                  |
| CO-5                | Understand the occurrence of different types of Eclipses      |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>OPERATIONS RESEARCH – I</b>                       |
| <b>Code</b>         | <b>20MAU16</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Understand the Linear Programming Problem.                    |
| CO-2                | Prove Integer Programming Problem.                            |
| CO-3                | Solve Transportation & Assignment Problems.                   |
| CO-4                | Acquire knowledge in Sequencing Problems.                     |
| CO-5                | Analyze and Solve Critical Path Method.                       |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Discipline Specific Elective – I<br/>C PROGRAMMING (THEORY)</b> |
| <b>Code</b>         | <b>18MAU16A / 20MAU17A</b>   |
|                     | <b>On completion of the course, students would be able to</b>      |
| CO-1                | Demonstrate how the codings to write                               |
| CO-2                | For functions, pointers, operators and so on                       |
| CO-3                | Be familiar in solving programme's                                 |
| CO-4                | Understand the importance of the C- Programme                      |
| CO-5                | Think and Create programme's – Acquire knowledge of C Programming  |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Discipline Specific Elective – I<br/>DISCRETE MATHEMATICS</b> |
|---------------------|--|

|             |   |
|-------------|---|
| <b>Code</b> | <b>18MAU16B / 20MAU17B</b>                                    |
|             | <b>On completion of the course, students would be able to</b> |
| CO-1        | Acquire knowledge of mathematical logic and normal forms      |
| CO-2        | Understand the theory of inference and predicates concepts    |
| CO-3        | Acquire knowledge of relations, Grammars and Formal languages |
| CO-4        | Understand the theory of Lattices                             |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>LINEAR ALGEBRA</b>   |
| <b>Code</b>         | <b>18MAU18 / 20MAU19</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Understand the different types of matrix and basic concepts of vector spacer                         |
| CO-2                | Understand the Linear Transformation of vector space   |
| CO-3                | Understand to calculate Eigen values and solution of Homogeneous and non-homogeneous linear equation |
| CO-4                | Understand the Euclidean and unitary spaces  |
| CO-5                | Gaining knowledge of angles of vectors and orthogonal bases  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>COMPLEX ANALYSIS</b>                              |
| <b>Code</b>         | <b>18MAU19 / 20MAU20</b>                                      |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Understand and explain the concepts of analytic               |
| CO-2                | Prove and apply the Cauchy's theorem in various area          |
| CO-3                | Evaluate Contour integration by using calculate of residues   |
| CO-4                | Acquire knowledge of complex integration and series expansion |
| CO-5                | Prove theorems and thinking out counter examples              |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>OPERATIONS RESEARCH - II</b>                                |
| <b>Code</b>         | <b>20MAU21</b>  |
|                     | <b>On completion of the course, students would be able to</b>           |
| CO-1                | Understand the Concepts of Games and Strategies.                        |
| CO-2                | Understand the Replacement Model.                                       |
| CO-3                | Solve Deterministic Inventory Problem.                                  |
| CO-4                | Acquire knowledge in Queueing Theory.                                   |
| CO-5                | Evaluate and Apply Different Model to Solve Problems in Queueing Theory |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>GRAPH THEORY</b>   |
| <b>Code</b>         | <b>18MAU21 / 20MAU22</b>   |
|                     | <b>On completion of the course, students would be able to</b>                          |
| CO-1                | Understand the basic concepts of Graph Theory  |
| CO-2                | Understand the concepts of Trees and fundamental properties                            |
| CO-3                | Understand the Planar and Dual Graphs  |
| CO-4                | Understand the matrix representation of graph  |
| CO-5                | Understand the definition, properties and matrix representation of different diagraphs |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Discipline Specific Elective – II<br/>NUMERICAL METHODS (THEORY)</b>               |
| <b>Code</b>         | <b>18MAU22A / 20MAU23A</b>  |
|                     | <b>On completion of the course, students would be able to</b>                         |
| CO-1                | Demonstrate how numerical techniques can be applied in real-life situations           |
| CO-2                | Formulate the natural problems and find the ways to solve it                          |
| CO-3                | Know the methods of numerical integration and differentiation                         |
| CO-4                | Provide a foundation for further study of numerical analysis and scientific computing |
| CO-5                | Solve the ordinary differential equations by step by step methods                     |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Discipline Specific Elective – II<br/>INTERNET AND JAVA (THEORY)</b> |
| <b>Code</b>         | <b>18MAU22B / 20MAU23B</b>  |
|                     | <b>On completion of the course, students would be able to</b>           |
| CO-1                | Acquire knowledge about Internet  |
| CO-2                | Acquire knowledge of Java Environment                                   |
| CO-3                | Acquire knowledge of Operators and Classes                              |
| CO-4                | Acquire knowledge of String Handling                                    |
| CO-5                | Acquire knowledge of Networking   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Generic Elective Course – Cluster – I<br/>MATHEMATICS</b>  |
| <b>Code</b>         | <b>18GECMAU</b>   |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Understand decimal fractions, square roots and cube roots     |
| CO-2                | Understand profit and loss                                    |
| CO-3                | Understand Time and Distance                                  |
| CO-4                | Understand simple interest and compound interest              |
| CO-5                | Understand calendar and clock problems                        |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Allied<br/>MATHEMATICS I</b>  |
| <b>Code</b>         | <b>18STU03</b>   |
|                     | <b>On completion of the course, students would be able to</b>                            |
| CO-1                | Acquire knowledge in solving the algebraic equations                                     |
| CO-2                | Understand the different types of matrices and their occurrence in various applications  |
| CO-3                | Be familiar in finding the derivative of a function of single variable and two variables |
| CO-4                | Examine various techniques of integration and apply them to definite integrals           |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Allied<br/>MATHEMATICS II</b>  |
| <b>Code</b>         | <b>18STU06</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Acquire knowledge of solving problems in matrices   |
| CO-2                | Understand the basic concept of ordinary and partial differential equations   |
| CO-3                | Become proficient in finding the solution of ordinary and partial differential equations using different techniques |
| CO-4                | Represent a periodic function in terms of Fourier series  |
| CO-5                | Solve the system of equations using appropriate numerical method  |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Allied<br/>MATHEMATICS I</b>  |
| <b>Code</b>         | <b>18PHU03</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Acquire knowledge in solving the algebraic and trigonometric equations   |
| CO-2                | Understand the different types of hyperbolic functions and their occurrence in various applications                    |
| CO-3                | Solve the problems in summations of trigonometric series   |
| CO-4                | Become proficient in finding the surface areas and volumes of more general regions through double and triple integrals |
| CO-5                | Solve the problems occurring in various applications using multiple integrals  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Allied<br/>MATHEMATICS II</b>  |
| <b>Code</b>         | <b>18PHU06</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Acquire knowledge of solving problems in matrices   |
| CO-2                | Understand the basic concept of ordinary and partial differential equations   |
| CO-3                | Become proficient in finding the solution of ordinary and partial differential equations using different techniques |
| CO-4                | Represent any functions in terms of Fourier series  |
| CO-5                | Solve the system of equations using appropriate numerical method  |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Allied<br/>MATHEMATICS I</b>  |
| <b>Code</b>         | <b>18CHU03</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Acquire knowledge in solving the algebraic and trigonometric equations   |
| CO-2                | Understand the different types of hyperbolic functions and their occurrence in various applications                    |
| CO-3                | Solve the problems in summations of trigonometric series   |
| CO-4                | Become proficient in finding the surface areas and volumes of more general regions through double and triple integrals |
| CO-5                | Solve the problems occurring in various applications using multiple integrals  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Allied<br/>MATHEMATICS II</b>  |
| <b>Code</b>         | <b>18CHU06</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Acquire knowledge of solving problems in matrices   |
| CO-2                | Understand the basic concept of ordinary and partial differential equations   |
| CO-3                | Become proficient in finding the solution of ordinary and partial differential equations using different techniques |
| CO-4                | Represent any functions in terms of Fourier series  |
| CO-5                | Solve the system of equations using appropriate numerical method  |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Allied<br/>MATHEMATICS I</b>  |
| <b>Code</b>         | <b>18ELU03</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Acquire knowledge in solving the trigonometric equations   |
| CO-2                | Understand the different types of hyperbolic functions and their occurrence in various applications              |
| CO-3                | Solve the problems in summations of trigonometric series   |
| CO-4                | Become proficient in finding the solution of problems occurring in various applications using multiple integrals |
| CO-5                | Solve the system of equations using appropriate numerical method   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Allied<br/>MATHEMATICS II</b>  |
| <b>Code</b>         | <b>18ELU06</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Represent any functions in terms of Fourier series  |
| CO-2                | Understand the basic concept of ordinary and partial differential equations   |
| CO-3                | Become proficient in finding the solution of ordinary and partial differential equations using different techniques |
| CO-4                | Acquire skills in applying the line and surface integrals to different applications                                 |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Allied<br/>MATHEMATICS</b>  |
| <b>Code</b>         | <b>18NDU12/18BCU08/18BCV08</b>   |
|                     | <b>On completion of the course, students would be able to</b>                    |
| CO-1                | Acquire knowledge in solving the trigonometric equations                         |
| CO-2                | Solve the problems in summations of trigonometric series                         |
| CO-3                | Solve the system of equations using appropriate numerical method                 |
| CO-4                | Gain knowledge in the basic concept of numerical differentiation and integration |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Allied<br/>MATHEMATICS</b>  |
| <b>Code</b>         | <b>18COU03/18CSU01B</b>  |
|                     | <b>On completion of the course, students would be able to</b>                            |
| CO-1                | Set up and solve linear systems geometrically and algebraically using matrices           |
| CO-2                | Be familiar in finding the derivative of a function of single variable and two variables |
| CO-3                | Examine various techniques of integration and apply them to definite integrals           |
| CO-4                | Solve a linear programming problem both algebraically and graphically                    |



Since 1947

# PSG College of Arts & Science Coimbatore – 641 014

## Programme: BSc Statistics

### Programme Outcomes

|      | <b>On completion of the programme, the student will be able to</b>   |
|------|--|
| PO-1 | Become knowledgeable in the subject of Statistics  |
| PO-2 | Gain Analytical skills in the field/area of theoretical and application aspects of statistics  |
| PO-3 | Understand and appreciate professional ethics, community living and Nation Building initiatives  |
| PO-4 | Develop and demonstrate knowledge and understanding skills, qualities and other attributes like intellectual skills, practical skills, and transferable skills |
| PO-5 | Analyze the Statistical needs of manufacturing, service, Government and Private Sectors  |
| PO-6 | Apply core concepts and principles in well defined context showing judgment in the selection and application of tools and techniques                           |
| PO-7 | Derive / Develop Procedures for solving problems in statistics   |
| PO-8 | Lifelong learning / as per the need of industries  |

### Programme Specific Outcomes

|       | <b>On completion of the programme, the student will be able</b>  |
|-------|--|
| PSO-1 | Apply the knowledge of Statistics in the domain of Data Analysis   |
| PSO-2 | Solve the complex problems in the field of all Social, Psychological, Biological, Management Sciences with an understanding of the societal, legal and cultural impacts of the solution  |
| PSO-3 | Gained experience and show the competence in the transferable skills like IT,(using Statistical Software), scientific writing, problem solving and team spirit, effective and efficient use of internet resource, management and career planning |
| PSO-4 | Form a part of member in a team with right attitudes   |

**Course Outcomes**

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>DESCRIPTIVE STATISTICS</b>   |
| <b>Code</b>         | <b>18STU01</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Understand and appreciate the importance of Statistics   |
| CO-2                | Gain knowledge in classifying, presenting & tabulating data in an informative way. Presentation and Tabulation |
| CO-3                | Apply their knowledge gathered in the subject to relevant fields to calculate descriptive measures             |
| CO-4                | Identify relationship among the variables and apply the correlation and regression analysis                    |
| CO-5                | Analyze data using computer skill - Excel  |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>TIME SERIES AND INDEX NUMBERS</b>  |
| <b>Code</b>         | <b>18STU02</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Fit linear trend and calculation of moving average   |
| CO-2                | Understand the calculation of seasonal variations using different methods and able to find cyclical fluctuations |
| CO-3                | Apply the concept of Index numbers & its applications  |
| CO-4                | Prepare cost of living index and other index numbers for real life situations                                    |
| CO-5                | Understand the concept of National Income and its estimation methods   |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>PROBABILITY AND DISTRIBUTIONS I</b>  |
| <b>Code</b>         | <b>18STU04 / 19STU04</b>   |
|                     | <b>On completion of the course, students would be able to</b>                          |
| CO-1                | Recognize the significance of Probability theory                                       |
| CO-2                | Translate real world problems into Probability models                                  |
| CO-3                | Explore the random experiments specified by random variables and identify distribution |
| CO-4                | Apply the knowledge in random or uncertainty experiments to solve problems             |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>NUMERICAL METHODS</b>   |
| <b>Code</b>         | <b>18STU05 / 19STU05</b>  |
|                     | <b>On completion of the course, students would be able to</b>               |
| CO-1                | Use numerical methods to solve algebraic and transcendental equations       |
| CO-2                | Apply numerical methods for interpolation, both equal and unequal intervals |
| CO-3                | Derive numerical methods for differentiation and integration                |
| CO-4                | Find solution of differential equations by numerical methods                |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>STATISTICS PRACTICAL I</b>   |
| <b>Code</b>         | <b>18STU07</b>   |
|                     | <b>On completion of the course, students would be able to</b>                    |
| CO-1                | Analyze data and draw conclusions using descriptive statistics                   |
| CO-2                | Study the relationship between variables   |
| CO-3                | Forecast using time series techniques & predict the cost of lining index numbers |
| CO-4                | Analyze the distribution and calculate various measures of probability functions |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>REAL ANALYSIS</b>   |
| <b>Code</b>         | <b>18STU08</b>  |
|                     | <b>On completion of the course, students would be able to</b>                         |
| CO-1                | Define and recognize the basic properties of real numbers, Convergence and divergence |
| CO-2                | Find limit superior, limit inferior and limit of sequence                             |
| CO-3                | Prove theorems based on derivatives of function                                       |
| CO-4                | Determine whether the series is Convergent or divergent                               |
| CO-5                | Identify and obtain Gamma & Beta integrals  |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>PROBABILITY AND DISTRIBUTIONS II</b>   |
| <b>Code</b>         | <b>18STU09</b>   |
|                     | <b>On completion of the course, students would be able to</b>                                    |
| CO-1                | Apply probability distribution techniques to solve real-world events                             |
| CO-2                | Analyze the probability of success with Binomial, Geometric, and Negative Binomial distributions |
| CO-3                | Derive the probability function mean and Variance for Discrete and Continuous distributions      |
| CO-4                | Calculate probabilities of real life examples using Normal distributions                         |
| CO-5                | Describe and derive the relationship between t, F and Chi-Square                                 |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>STATISTICAL INFERENCE – I</b>  |
| <b>Code</b>         | <b>18STU11</b>   |
|                     | <b>On completion of the course, students would be able to</b>                          |
| CO-1                | Define estimate and its properties   |
| CO-2                | Interpret the theories estimation under various situations using methods of estimation |
| CO-3                | Identify and analyze the confidence intervals under asymptotic and exact distribution  |
| CO-4                | Analyze the Bayes estimation and non parametric test                                   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>BASIC SAMPLING THEORY</b>   |
| <b>Code</b>         | <b>18STU12</b>  |
|                     | <b>On completion of the course, students would be able to</b>                   |
| CO-1                | Identify the appropriate sampling method and apply/conduct sample survey design |
| CO-2                | Understand the functions of NSSO and CSO  |
| CO-3                | Estimate the population characteristics for various sampling techniques         |
| CO-4                | Apply ratio and regression estimators in appropriate situations                 |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Interdisciplinary Course<br/>MATHEMATICAL ECONOMICS</b>   |
| <b>Code</b>         | <b>18STU13</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Possess a solid grasp of essential mathematical tools required for further studies in economic theory          |
| CO-2                | Use and explain the underlying principles, Terminology, Methods, Techniques and conventions used in the course |
| CO-3                | Understand the optimization techniques used in economic theory   |
| CO-4                | Think and apply suitable mathematical tools on their own research, if necessary, with suitable modifications   |
| CO-5                | Solve economic problems using the mathematical methods described in the course                                 |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>STATISTICAL PRACTICAL II</b>  |
| <b>Code</b>         | <b>18STU14</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Fit discrete and continuous distributions for various Parameters  |
| CO-2                | Have knowledge about estimation of parameters using different methods and finding the confidence intervals. |
| CO-3                | Estimate Mean and Variance for different Sampling Techniques  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>STATISTICAL INFERENCE – II</b>  |
| <b>Code</b>         | <b>18STU15</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Define hypothesis, types and its testing methods  |
| CO-2                | Interpret the theories of testing of hypothesis under various situations                              |
| CO-3                | Identify and Apply the Test of significance under Asymptotic and exact situation for various measures |
| CO-4                | Analyze the association of attributes by different methods  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Discipline Specific Elective Course – I<br/>ACTUARIAL STATISTICS</b> |
| <b>Code</b>         | <b>18STU16A</b>   |
|                     | <b>On completion of the course, students would be able to</b>           |
| CO-1                | Know about the basics of Simple and Compound Interests                  |
| CO-2                | Understand about Annuities and its Calculation                          |
| CO-3                | Identify and apply the calculation of Premium Rates                     |
| CO-4                | Understand the applications of fundamentals in Life Insurance Sector    |
| CO-5                | Have an overall understanding about General and Health Insurance        |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Discipline Specific Elective Course – I<br/>BIO STATISTICS</b>                                    |
| <b>Code</b>         | <b>18STU16B</b>  |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Learn the overview, scope and data collection methods for biostatistics                              |
| CO-2                | Gain knowledge about the descriptive statistics and sampling techniques applicable in bio statistics |
| CO-3                | Understand how discrete and continuous distributions are applied in bio statistics                   |
| CO-4                | Have an understanding about the use of estimation theory and testing of hypothesis in biostatistics  |
| CO-5                | Learn how clinical studies are conducted   |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>EDUCATIONAL &amp; PSYCHOLOGICAL STATISTICS</b>                     |
| <b>Code</b>         | <b>18STU17</b>   |
|                     | <b>On completion of the course, students would be able to</b>                  |
| CO-1                | Know about Biserial, Point biserial and Tetrachoric correlations               |
| CO-2                | Compute Z-scores, Standard, Normal and T-scores for ungrouped and grouped data |
| CO-3                | Calculate Stanine and C scale values for grouped and ungrouped data            |
| CO-4                | Identify and apply different methods to determine reliability                  |
| CO-5                | Perform the validation for the psychological test                              |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>OPERATIONS RESEARCH – I</b>   |
| <b>Code</b>         | <b>18STU18</b>  |
|                     | <b>On completion of the course, students would be able to</b>                     |
| CO-1                | Formulate Linear Programming Problem  |
| CO-2                | Solve Linear Programming Problem using optimization method.                       |
| CO-3                | Understand about the Duality and formulate the Integer Programming Problem        |
| CO-4                | Solve Transportation problem and Assignment Problem using Optimization techniques |
| CO-5                | Identify the best Sequencing to solve specific problems                           |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>BIG DATA ANALYTICS AND R PROGRAMMING</b>  |
| <b>Code</b>         | <b>18STU19</b>  |
|                     | <b>On completion of the course, students would be able to</b>                                   |
| CO-1                | Learn tips and tricks for big data use cases and solutions                                      |
| CO-2                | Develop critical skills, which help build a background as a data analytics and a data scientist |
| CO-3                | Learn to build and maintain reliable scalable distributed systems with R Programming            |
| CO-4                | Learn R Programming Language and understand its application on Statistics problems              |
| CO-5                | Learn R Programming Language and understand ANOVA, Time series and control chart                |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Discipline Specific Elective course – II<br/>DEMOGRAPHIC METHODS</b> |
| <b>Code</b>         | <b>18STU20A</b>   |
|                     | <b>On completion of the course, students would be able to</b>           |
| CO-1                | Gain knowledge in Demography and its essential need                     |
| CO-2                | Get the knowledge in Fertility and Mortality Measurements               |
| CO-3                | Construct and Analyses samples for Life Table                           |
| CO-4                | Make simple mathematical descriptions or modeling                       |
| CO-5                | Project population with mathematical models                             |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Discipline Specific Elective course – II<br/>MATRICES</b>       |
| <b>Code</b>         | <b>18STU20B</b>  |
|                     | <b>On completion of the course, students would be able to</b>      |
| CO-1                | Bases and Dimension  |
| CO-2                | Linear Transformations and its matrix forms and Rank and signature |
| CO-3                | Classification of quadratic forms                                  |
| CO-4                | Apply roots and Characteristic Vectors in science problems         |
| CO-5                | Summarize Matrix decompositions                                    |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>DESIGN OF EXPERIMENTS</b>  |
| <b>Code</b>         | <b>18STU21</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Know the essential components of experimental design   |
| CO-2                | Develop the Mathematical Model of Experimental Use linear regression analysis to develop an empirical model of experimental data |
| CO-3                | Identify and Explain the essential components of experimental design and Principles  |
| CO-4                | Design an experiment and conduct analysis of variance on experimental data, interpret the results and present them meaningfully  |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>INDUSTRIAL STATISTICS</b>  |
| <b>Code</b>         | <b>18STU22</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Describe quality, specification limits and tolerance limits distributions under the concept of Reliability |
| CO-2                | Draw control charts for attributes and variables and interpret them.                                       |
| CO-3                | Apply various sampling plans for attributes and variables quality characteristics.                         |
| CO-4                | Identify and apply sampling plans as per the situation   |
| CO-5                | Derive reliability and other related measures based on exponential   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>OPERATIONS RESEARCH – II</b>  |
| <b>Code</b>         | <b>18STU23</b>  |
|                     | <b>On completion of the course, students would be able to</b>                             |
| CO-1                | Propose the best strategy using decision making methods under uncertainty and game theory |
| CO-2                | Identify and Solve Industrial & Group Replacement Problems                                |
| CO-3                | Have a Knowledge in Queuing Systems and its Models  |
| CO-4                | Obtain Knowledge in Network Analysis with CPM & PERT Techniques                           |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>ECONOMETRICS</b>  |
| <b>Code</b>         | <b>18STU24</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Emphasizes the application of econometrics in different Fields of estimation                                |
| CO-2                | Quantitatively rigorous and acquire knowledge of Mathematics and Statistics Models                          |
| CO-3                | Understand and use various advanced econometric models, estimation methods and related econometric theories |
| CO-4                | Apply the above theories to empirical data or be able to develop new Econometric theory.                    |
| CO-5                | Use statistical packages like SPSS to estimate econometric models using real life situations                |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>STATISTICAL PRACTICAL III</b>                               |
| <b>Code</b>         | <b>18STU25</b>  |
|                     | <b>On completion of the course, students would be able to</b>           |
| CO-1                | Solve problems in the design of experiments                             |
| CO-2                | Draw control charts for attributes and variables and interpret them     |
| CO-3                | Estimate the population characteristics for various sampling techniques |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>COMPUTER BASED STATISTICS PRACTICAL –SPSS</b>  |
| <b>Code</b>         | <b>18STU26</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Create data file and manage the file   |
| CO-2                | Identify the nature of the variable and recognize the tools to be Used                               |
| CO-3                | Perform Statistical analysis using SPSS as per the requirement of Parametric and Non Parametric test |
| CO-4                | Bring a solution with Control Charts   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Generic Elective course<br/>ELEMENTS OF COMPUTATIONAL STATISTICS</b>             |
| <b>Code</b>         | <b>18GECEDC</b>   |
|                     | <b>On completion of the course, students would be able to</b>                       |
| CO-1                | Frame a questionnaire with a neat sketch and Data feeding in MS Excel               |
| CO-2                | Manipulate simple analysis like averages, correlation and dispersion using MS Excel |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>MATHEMATICAL STATISTICS I</b>   |
| <b>Code</b>         | <b>18MAU09</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Understand the basic concept of Probability and theorems  |
| CO-2                | Identify discrete and continuous random variables and their Distribution function                     |
| CO-3                | Have knowledge about Moments, Conditional and Marginal Distributions                                  |
| CO-4                | Know about discrete and continuous distributions with Practical applications                          |
| CO-5                | Calculate Correlation and Regression and analyze the Properties and t, F and Chi-Square distributions |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>MATHEMATICAL STATISTICS II</b>                                   |
| <b>Code</b>         | <b>18MAU12</b>   |
|                     | <b>On completion of the course, students would be able to</b>                |
| CO-1                | Understand the concept of sampling and its practical applications            |
| CO-2                | Identify the characteristics of a good estimate                              |
| CO-3                | Know about different methods of estimation                                   |
| CO-4                | Learn about the concepts of testing the hypothesis & procedure               |
| CO-5                | Apply test of significance for problem solving under small and large samples |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>BIOSTATISTICS</b>  |
| <b>Code</b>         | <b>18ZOU21</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Understand the foundation of statistics, collection, tabulation, presentation of statistical data and knowledge about graphical and diagrammatical representation data |
| CO-2                | Apply the knowledge about measure of central tendency & Dispersion   |
| CO-3                | Apply their knowledge gathered in the subject to other required fields to calculate various measures   |

|      |  |
|------|--|
| CO-4 | Understand the concept of correlation and regression equations for the predict data in biology |
|------|--|

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core</b><br><b>SOCIAL STATISTICS I WITH COMPUTER APPLICATIONS</b>   |
| <b>Code</b>         | <b>18SOU09</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Understand the foundation of statistics, collection, tabulation, presentation of statistical data and knowledge about graphical and diagrammatical representation data |
| CO-2                | Apply the knowledge & calculate measure of central tendency & Dispersion   |
| CO-3                | Develop the knowledge about the skewness, correlation & Regression   |
| CO-4                | Understand the concept of correlation and regression equations to the predict data   |
| CO-5                | Analyze and interpret the Statistical data using MS- Excel   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core</b><br><b>SOCIAL STATISTICS II WITH COMPUTER APPLICATIONS</b>   |
| <b>Code</b>         | <b>18SOU12</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Apply the knowledge about association of attributes   |
| CO-2                | Know about the importance of vital statistics and its measures  |
| CO-3                | Understand about the probabilities and its application also discrete and continuous distribution gain the knowledge about the time series |
| CO-4                | The demonstration of important concepts of time series, moving averages fitting of straight line  |
| CO-5                | Apply the statistical techniques in MS Excel  |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core</b><br><b>STATISTICS FOR BUSINESS PROCESS</b>                            |
| <b>Code</b>         | <b>19BPU07</b>   |
|                     | <b>On completion of the course, students would be able to</b>                    |
| CO-1                | Interpret and solve real life business problems using the concepts of Statistics |

|      |  |
|------|--|
| CO-2 | Identify the business and economic data graphically and numerically and explain relationship between graphs and numerical data |
| CO-3 | Organize and summarize Statistical data by using descriptive Statistics  |
| CO-4 | Predict relevant relationship between business variables using correlation and regression analysis                             |
| CO-5 | Apply the probability concept in the business field  |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>ECONOMETRICS</b>   |
| <b>Code</b>         | <b>18CBA14</b>   |
|                     | <b>On completion of the course, students would be able to</b>                      |
| CO-1                | Formulate and estimate different econometric models in business problems           |
| CO-2                | Solve and Interpret real life business problems using the concepts of econometrics |
| CO-3                | Use appropriate tests to detect Heteroskedasticity                                 |
| CO-4                | Identify the various input - output analysis and their applications                |
| CO-5                | Construct, test and analyze the various forecasting models in business environment |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>APPLIED OPERATIONS RESEARCH</b>   |
| <b>Code</b>         | <b>18MSU12 / 18ISU13 / 18RMU12</b>  |
|                     | <b>On completion of the course, students would be able to</b>                                   |
| CO-1                | Formulate OR models to solve real life problems by using graphical and simplex methods          |
| CO-2                | <b>Analyze the advanced methods for large scale transportation and assignment problems</b>      |
| CO-3                | Evaluate sequencing problems of scheduling jobs on two and three machines                       |
| CO-4                | Apply various methods to select optimum strategies to win the game                              |
| CO-5                | Apply various Queuing models to eliminate customers/clients waiting period for service delivery |
| CO-6                | Undertake a project, identify bottlenecks and discover alternate work plan for a project        |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>MATHEMATICAL STATISTICS</b>   |
| <b>Code</b>         | <b>18MCU14</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Appreciate the use of probability concepts, discrete and continuous probability distributions and apply them in real world problems |
| CO-2                | Evaluate the various sampling techniques in real life problems  |
| CO-3                | Analyze various probability techniques that are useful to mathematicians  |
| CO-4                | Apply suitable tests of significance for making decision in hypothesis testing  |
| CO-5                | Use the sampling distributions at the appropriate places  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>APPLIED BUSINESS STATISTICS II</b>  |
| <b>Code</b>         | <b>18CBA12</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Solve and Interpret real life business problems using the concepts of Statistics  |
| CO-2                | Analyze the data using various time series models and also forecast the future values   |
| CO-3                | Demonstrate knowledge and understanding of index number theory and methods and be able to provide solutions to general aggregation problems |
| CO-4                | Predict relevant relationship between business variables using Correlation and regression analysis  |
| CO-5                | Demonstrate knowledge and understanding of the basic concepts of multivariate distributions and their related distributions                 |
| CO-6                | Carryout and interpret the results from principal component analysis and factor analysis  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>APPLIED STATISTICS</b>  |
| <b>Code</b>         | <b>19DAU16</b>  |
|                     | <b>On completion of the course, students would be able to</b>               |
| CO-1                | Understand the concept of time series data and methods used to forecast the |

|      |   |
|------|---|
|      | future  |
| CO-2 | Construct and interpret index numbers   |
| CO-3 | Understand the various statistical functions used to identify the processing product with in the control or not |
| CO-4 | Know the examined lots of products are free of defectives   |
| CO-5 | Apply various sampling techniques in real life business problems  |
| CO-6 | Execute the statistical functions and data analysis tools in excel  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>STATISTICS PRACTICAL</b>  |
| <b>Code</b>         | <b>19DAU19</b>  |
|                     | <b>On completion of the course, students would be able to</b>               |
| CO-1                | Use the basic functions of SPSS   |
| CO-2                | Process data and generate statistics for some demographic variable analysis |
| CO-3                | Generate graphs and diagrams for given data                                 |
| CO-4                | Process data and generate outputs using SPSS software                       |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>MATHEMATICS AND STATISTICS</b>   |
| <b>Code</b>         | <b>18FPB18</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Apply the matrix and statistics to solve the real problems   |
| CO-2                | Identify the business and economic data graphically and numerically and explain relationship between graphs and numerical data |
| CO-3                | Organize and summarize data by using descriptive Statistics and appropriate Statistical graphs                                 |
| CO-4                | Predict relevant relationship between business variables using Correlation and regression analysis                             |
| CO-5                | Apply suitable test of significance for making decisions in hypothesis testing   |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>STATISTICS AND OPERATIONS RESEARCH</b> |
| <b>Code</b>         | <b>19CMU15/ 19ITU16 / 19CTU14</b>                  |

|      | <b>On completion of the course, students would be able to</b>   |
|------|---|
| CO-1 | Interpret and solve real life business problem using the concepts of statistics                         |
| CO-2 | Predict relevant relationship between variables using correlation and regression analysis               |
| CO-3 | Apply suitable test of significance for making decisions in hypothesis testing                          |
| CO-4 | Formulate operations research models to solve real life problems by using graphical and simplex methods |
| CO-5 | Analyze the advanced methods for large-scale transportation   |
| CO-6 | Evaluate sequencing problems of scheduling jobs on two and three machines                               |

| <b>Course Title</b> | <b>Core<br/>OPTIMIZATION TECHNIQUES</b>   |
|---------------------|---|
| <b>Code</b>         | <b>19DAU24</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Formulate OR models to solve real life problems by using graphical and simplex methods                                    |
| CO-2                | Analyze the advanced methods for large scale transportation and assignment problems                                       |
| CO-3                | Evaluate sequencing problems of scheduling jobs on two or three machines  |
| CO-4                | Appreciate the use of replacement analysis in handling problems like “Staffing problem and equipment renewal problem” etc |
| CO-5                | Apply various methods to select optimum strategies to win the game  |
| CO-6                | Apply various queuing models to eliminate customers/clients waiting period for service delivery                           |

| <b>Course Title</b> | <b>Core<br/>BIostatistics (IDC – ST)</b>   |
|---------------------|--|
| <b>Code</b>         | <b>18BTU17</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Understand the basic concepts and terminology in Biostatistics, including the various kinds of variables, measurement etc. |
| CO-2                | Organize and summarize Statistical data by using descriptive Statistics  |
| CO-3                | Apply the basic sampling techniques to life science problems   |

|      |  |
|------|--|
| CO-4 | Predict relevant relationship between business variables using correlation and regression analysis |
| CO-5 | Apply suitable tests of significance for making decision in hypothesis testing                     |
| CO-6 | Understand the processes involved in scientific methods and the design of experiments              |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>STATISTICAL QUALITY CONTROL</b>  |
| <b>Code</b>         | <b>18CBA17</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Understand the philosophy and basic concepts of quality improvement  |
| CO-2                | Demonstrate the use of various methods of statistical process control  |
| CO-3                | Design, use and interpret control charts for attributes and variables  |
| CO-4                | Evaluate the principles of quality management and to explain how these principles can be applied within quality management systems |
| CO-5                | Perform analysis of process capabilities   |
| CO-6                | Apply reliability analysis for real world problems   |
| CO-7                | Get acquainted with various reliability predictions and evolution methods  |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>OPERATIONS RESEARCH</b>  |
| <b>Code</b>         | <b>18COE20</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Formulate OR models to solve real life problems by using graphical and simplex methods                                     |
| CO-2                | Analyze the advanced methods for large scale transportation and assignment problems  |
| CO-3                | Analyze a variety of inventory systems and make optimal decisions for the improvement of systems                           |
| CO-4                | Appreciate the use of replacement analysis in handling problems like “Staffing problem and equipment renewal problem” etc. |
| CO-5                | Evaluate sequencing problems of scheduling jobs on two or three machines   |
| CO-6                | Apply various queuing models to eliminate customers/clients waiting period   |

|      |  |
|------|--|
|      | for service delivery   |
| CO-7 | Apply CPM and PERT techniques, to plan, schedule, and control project activities |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>APPAREL STATISTICS</b>   |
| <b>Code</b>         | <b>18CDU22</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Understanding the difference between primary and secondary data  |
| CO-2                | Understand to collect the primary data   |
| CO-3                | Understand to construct the charts and graphs  |
| CO-4                | Understanding the basics concepts of Measure of central values of data and other statistical tools of dispersion |
| CO-5                | Understanding the various techniques used to identify the processing product with in the control or not          |
| CO-6                | Understand the concept of time series data and methods used to forecast the future                               |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>ACTUARIAL STATISTICS</b>                                       |
| <b>Code</b>         | <b>18CBA24</b>   |
|                     | <b>On completion of the course, students would be able to</b>              |
| CO-1                | Understand the basic probability and calculation methods of interest rates |
| CO-2                | Define the annuities and its calculations                                  |
| CO-3                | Construct the mortality tables   |
| CO-4                | Calculate the insurance premiums   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>DATA ANALYSIS USING SPSS</b>                                    |
| <b>Code</b>         | <b>18CBA29</b>  |
|                     | <b>On completion of the course, students would be able to</b>               |
| CO-1                | Use the basic functions of SPSS   |
| CO-2                | Process data and generate statistics for some demographic variable analysis |

|      |   |
|------|---|
| CO-3 | Generate graphs and diagrams for data analysis        |
| CO-4 | Process data and generate outputs using SPSS software |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>BUSINESS STATISTICS</b>  |
| <b>Code</b>         | <b>19BSB05</b>   |
|                     | <b>On completion of the course, students would be able to</b>                    |
| CO-1                | Understand the use of Statistics and business                                    |
| CO-2                | Visualized, interpret and summarized data  |
| CO-3                | Use graphical representation and descriptive Statistics for business application |
| CO-4                | Study relationship between variables using Correlation and regression            |
| CO-5                | Construct and interpret index numbers  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>STATISTICAL DATA ANALYTICS</b>  |
| <b>Code</b>         | <b>19NMB03</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Explain the logic and appropriate applications of statistical analyses  |
| CO-2                | Explain basic statistical concepts such as statistical series, tabular and graphical representation of data, measures of central tendency and dispersion                          |
| CO-3                | Predict relevant relationship between variables using correlation and regression analysis   |
| CO-4                | Appreciate the use of probability concepts, discrete and continuous probability distributions and apply them in business related problems   |
| CO-5                | Apply suitable test of significance for making decisions in hypothesis testing. Based on the acquired knowledge to interpret the meaning of the calculated statistical indicators |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>PROBABILITY AND STATISTICS</b>                    |
| <b>Code</b>         | <b>19DAU09</b>  |
|                     | <b>On completion of the course, students would be able to</b> |

|      |   |
|------|---|
| CO-1 | Select, analyze and interpret appropriate numerical data used in everyday life through diagrams and graphs                                |
| CO-2 | Calculate the statistics necessary to solve problems, including descriptive statistics and statistical significance tests                 |
| CO-3 | Appreciate the use of probability concepts, discrete and continuous probability distributions and apply them in business related problems |
| CO-4 | Apply suitable test of significance for making decisions in hypothesis testing  |
| CO-5 | Predict relevant relationship between variables using correlation and regression analysis   |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Allied<br/>STATISTICS</b>   |
| <b>Code</b>         | <b>18CSU06/18COU07/18COC05/18COE07/18CRM07/18AFU07/18FSU07/18FTU07/18BPU07/18CBI07</b> |
|                     | <b>On completion of the course, students would be able to</b>                          |
| CO-1                | Understand the use of Statistics and business  |
| CO-2                | Visualized, interpret and summarized data  |
| CO-3                | Use graphical representation and descriptive Statistics for business application       |
| CO-4                | Study relationship between variables using Correlation and regression                  |
| CO-5                | Construct and interpret index numbers  |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Allied<br/>QUANTITATIVE TECHINQUES</b>  |
| <b>Code</b>         | <b>18PAU08</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Organize and summarize data using descriptive statistics and appropriate statistical graphs and diagrams |
| CO-2                | Interpret and solve real life business problem using the concepts of statistics                          |
| CO-3                | Predict relevant relationship between business variables using correlation and regression analysis       |
| CO-4                | Analyze the data using various time series models and also forecast the future                           |

|      |  |
|------|--|
|      | values   |
| CO-5 | Demonstrate knowledge and understanding of index number theory and methods and be able to provide solution to general aggregation problems |
| CO-6 | Appreciate the use of probability concepts, discrete and continuous probability distributions and apply them in real world problems        |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Allied<br/>BUSINESS MATHEMATICS AND STATISTICS</b>   |
| <b>Code</b>         | <b>18CMA03</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Apply various mathematical techniques related to business concepts  |
| CO-2                | Identify the business and economic data graphically and numerically and explain relationship between graphs and numerical data            |
| CO-3                | Organize and summarize Statistical data by using descriptive Statistics   |
| CO-4                | Predict relevant relationship between business variables using Correlation and regression analysis  |
| CO-5                | Appreciate the use of probability concepts, discrete and continuous probability distributions and apply them in business related problems |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Allied<br/>STATISTICS FOR BUSINESS ANALYTICS</b>                              |
| <b>Code</b>         | <b>18CBA02</b>   |
|                     | <b>On completion of the course, students would be able to</b>                    |
| CO-1                | Interpret and solve real life business problems using the concepts of Statistics |
| CO-2                | Apply the various sampling techniques in real life business problems             |
| CO-3                | Identify the business and economic data graphically and numerically and explain  |

|      |  |
|------|--|
|      | relationship between graphs and numerical data   |
| CO-4 | Organize and summarize Statistical data by using descriptive Statistics                            |
| CO-5 | Predict relevant relationship between business variables using Correlation and regression analysis |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Allied<br/>COMPUTER PRACTICAL II (SPSS)</b>                              |
| <b>Code</b>         | <b>18CBA07</b>  |
|                     | <b>On completion of the course, students would be able to</b>               |
| CO-1                | Use the basic functions of SPSS   |
| CO-2                | Process data and generate statistics for some demographic variable analysis |
| CO-3                | Generate graphs and diagrams for data analysis                              |
| CO-4                | Process data and generate outputs using SPSS software                       |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Allied<br/>APPLIED BUSINESS STATISTICS - I</b>   |
| <b>Code</b>         | <b>18CBA06</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Interpret and solve real life business problems using the concepts of Statistics  |
| CO-2                | Appreciate the use of probability concepts, discrete and continuous probability distributions and apply them in real world problems |
| CO-3                | Apply suitable test of significance for making decisions in hypothesis testing  |
| CO-4                | Carry out and interpret statistical data by using various non – parametric tests  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>STATISTICS AND OPERATIONS RESEARCH</b>  |
| <b>Code</b>         | <b>18CAU03</b>  |
|                     | <b>On completion of the course, students would be able to</b>                             |
| CO-1                | Interpret and solve real life business problem using the concepts of statistics           |
| CO-2                | Predict relevant relationship between variables using correlation and regression analysis |
| CO-3                | Apply suitable test of significance for making decisions in hypothesis testing            |
| CO-4                | Formulate operations research models to solve real life problems by using graphical       |

|      |   |
|------|---|
|      | and simplex methods   |
| CO-5 | Analyze the advanced methods for large-scale transportation               |
| CO-6 | Evaluate sequencing problems of scheduling jobs on two and three machines |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>STATISTICS RACTICAL (SPSS)</b>                                  |
| <b>Code</b>         | <b>18CAU05</b>  |
|                     | <b>On completion of the course, students would be able to</b>               |
| CO-1                | Use the basic functions of SPSS   |
| CO-2                | Process data and generate statistics for some demographic variable analysis |
| CO-3                | Generate graphs and diagrams for data analysis                              |
| CO-4                | Process data and generate outputs using SPSS software                       |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>BUSINESS MATHEMATICS AND STATISTICS</b>  |
| <b>Code</b>         | <b>18MSU03/18ISU03/18RMU03</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Apply various mathematical techniques related to business concepts   |
| CO-2                | Identify the business and economic data graphically and numerically and explain relationship between graphs and numerical data                       |
| CO-3                | Organize and summarize data by using descriptive Statistics and appropriate Statistical graphs   |
| CO-4                | Predict relevant relationship between business variables using Correlation and regression analysis   |
| CO-5                | Demonstrate knowledge and understanding of index number theory and methods and be able to provide practical solution to general aggregation problems |
| CO-6                | Solve problems related to computational tool using MS Excel  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>APPLIED BUSINESS STATISTICS - I</b>               |
| <b>Code</b>         | <b>18CBA08</b>  |
|                     | <b>On completion of the course, students would be able to</b> |

|      |   |
|------|---|
| CO-1 | Interpret and solve real life business problems using the concepts of Statistics  |
| CO-2 | Appreciate the use of probability concepts, discrete and continuous probability distributions and apply them in real world problems |
| CO-3 | Apply suitable test of significance for making decisions in hypothesis testing  |
| CO-4 | Carry out and interpret statistical data by using various non – parametric tests  |



Since 1947

# PSG College of Arts & Science Coimbatore – 641 014

## Programme: BSc Physics

### Programme Outcomes

|      | <b>On completion of the programme, the student will be able to</b>  |
|------|---|
| PO-1 | Become knowledgeable in the subject of Physics and apply the principles of the same to the needs of the Institution |
| PO-2 | Gain Analytical skills in the fields of Physics   |
| PO-3 | Understand and appreciate professional ethics, community living and Nation Building initiatives                     |
| PO-4 | Makes the student to feel the power of knowledge  |
| PO-5 | Makes the student to confidently compete with any graduate  |
| PO-6 | Ensure the employability of student   |

### Programme Specific Outcomes

|       | <b>On completion of the programme, the student will be able</b>   |
|-------|---|
| PSO-1 | Apply the knowledge of Physics in the domain of research and development  |
| PSO-2 | Solve the complex problems in the field of science and technology with an understanding of the societal, legal and cultural impacts of the solution |
| PSO-3 | Enable them to adopt scientific approach in their day to day life   |
| PSO-4 | Form a part of member in a team with righteous attitudes  |

### Course Outcomes

| <b>Course Title</b> | <b>Core<br/>ASTROPHYSICS AND PHILOSOPHY OF PHYSICS</b>  |
|---------------------|---|
| <b>Code</b>         | <b>18PHU01</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Get an idea about the various coordinate system available and various methods for finding the apparent luminosity of a star |
| CO-2                | Learn about methods of measuring stellar Luminosities   |
| CO-3                | Gain knowledge on components of solar system and their properties   |
| CO-4                | Understand about the classification of stars and also derive an equation for stellar structure                              |
| CO-5                | Attain Philosophical knowledge on the development of modern physics   |

| <b>Course Title</b> | <b>Core<br/>PROPERTIES OF MATTER AND SOUND</b>  |
|---------------------|---|
| <b>Code</b>         | <b>18PHU02</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Get an idea about elasticity related parameters and also on the bending of beams.                     |
| CO-2                | Gain a knowledge on low pressure physics and viscosity  |
| CO-3                | Interpret the surface tension down to the molecular level and investigate on other related phenomenon |
| CO-4                | Understand the fundamentals of wave motion  |
| CO-5                | Learn about ultrasonic waves and also about basics of sound   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>THERMAL AND STATISTICAL PHYSICS</b>   |
| <b>Code</b>         | <b>18PHU04</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Gain knowledge on the various types of thermometers available for measuring various range of temperature                                      |
| CO-2                | Know Importance of joule Thomson effect and its importance in the liquefaction of gases   |
| CO-3                | Learn Concept of transmission of heat energy via conduction convection and radiation and have an introduction towards to Black body radiation |
| CO-4                | Understand about the laws governing thermodynamics and its application  |
| CO-5                | Learnt about various distribution laws that forms the basics of Statistical mechanics   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>Mechanics</b>   |
| <b>Code</b>         | <b>18PHU05</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Get a basic idea about fluids that are at rest and the forces that act on them and also to determine the point where that forces acts |
| CO-2                | Understand fundamental theorems related to moment of inertia, and various types of pendulums  |
| CO-3                | Parameters and laws related to osmosis and diffusion and an analogy between diffusion along with their applications                   |
| CO-4                | Learn about the basics of rocket and jet propulsion along with their application  |
| CO-5                | Understand the classical system of mechanics moving in constraint and their applications  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>PHYSICS PRACTICAL I</b>   |
| <b>Code</b>         | <b>18PHU07</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Acquire a basic knowledge of general physics  |
| CO-2                | Understand the relationship between theory and experimental results   |
| CO-3                | The student will be able to understand the fundamental physics behind many scientific discoveries through hands on experience |
| CO-4                | Students will acquire enough general skills to handle variety of formula's, appear in various physical situations, with ease  |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>ELECTRICITY AND MAGNETISM</b>  |
| <b>Code</b>         | <b>18PHU08</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Define the various laws and effects Electric field, Gauss law and its applications and dielectrics       |
| CO-2                | Understand the significance of flow of current and its governing laws and theorems                       |
| CO-3                | Describe the importance of various thermoelectric effects and their real time applications               |
| CO-4                | Attain the knowledge about alternate currents and its related ideas                                      |
| CO-5                | Elaborate the basics and essential of fundamentals and theories about magnetism and its allied phenomena |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>ATOMIC, MOLECULAR AND LASER PHYSICS</b>   |
| <b>Code</b>         | <b>18PHU09</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Compare different types of atomic models and describe the Bohr atom model and identify atomic effect such as normal and anomalous Zeeman Effect |
| CO-2                | Understand the significance of additional quantum numbers, spectral terms for neutral and ionized atoms and photo electric effect               |
| CO-3                | Describe the importance of X-rays spectra, related experimental methods   |
| CO-4                | Discuss about the fundamental theories of LASERS and different types of lasing systems along with their applications                            |
| CO-5                | Elaborate the basics and essential of mass spectroscopes and spectroscopic techniques   |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>OPTICS</b>   |
| <b>Code</b>         | <b>18PHU11</b>   |
|                     | <b>On completion of the course, students would be able to</b>                                  |
| CO-1                | Discuss the various defects associated with spherical surfaces based on ideas of ray optics    |
| CO-2                | Analyze and discuss about optical devices such as combinations of lenses                       |
| CO-3                | Classify different types of field of views formed by interference and diffraction phenomena    |
| CO-4                | Describe the crystal optics via understanding of polarization phenomena and its governing laws |
| CO-5                | Explain the ideas behind the optical fiber communication and construction of a hologram        |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>ELECTRONIC INSTRUMENTATION</b>  |
| <b>Code</b>         | <b>18PHU12</b>  |
|                     | <b>On completion of the course, students would be able to</b>                       |
| CO-1                | Identify the factors involved in determining quality of a instrument                |
| CO-2                | Understand the functions of ammeters and voltmeters along with their limitations    |
| CO-3                | Handle the oscilloscopes with ample understanding of their operation                |
| CO-4                | Know the physics and functions of transducers and also their potential applications |
| CO-5                | Elaborate the basics and essential of phonocardiography                             |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>PHYSICS PRACTICAL II</b>                              |
| <b>Code</b>         | <b>18PHU14</b>  |
|                     | <b>On completion of the course, students would be able to</b>     |
| CO-1                | Understand the basic knowledge of general physics                 |
| CO-2                | Correlate theory of experiments with their experimental results   |
| CO-3                | Understand the scientific discoveries through hands on experience |
| CO-4                | Demonstrate the skills through physics experiments                |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Allied<br/>PHYSICS – I</b>   |
| <b>Code</b>         |   |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Discuss the physics behind the various types of vibrations and their experimental verification                        |
| CO-2                | Analyze matter and their properties such as viscosity, elasticity and surface tension                                 |
| CO-3                | Explain the concepts of heat and thermodynamics, processes and their governing laws                                   |
| CO-4                | Describe the basic concepts of capacitors and electric circuits and their principles                                  |
| CO-5                | Explain the ideas about the ray optics and its experimental verification through the understanding of optical devices |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Allied<br/>PHYSICS – II</b>  |
| <b>Code</b>         |   |
|                     | <b>On completion of the course, students would be able to</b>             |
| CO-1                | defend the queries belong to wave optics and its phenomena                |
| CO-2                | explore the scientific ideas of modern physics                            |
| CO-3                | Understand the physics behind the nuclear science related developments    |
| CO-4                | Express the ideology about quantum mechanics and relativity               |
| CO-5                | Apply the characteristics of electronic devices in practical applications |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Allied<br/>PHYSICS PRACTICAL</b>  |
| <b>Code</b>         |  |
|                     | <b>On completion of the course, students would be able to</b>              |
| CO-1                | Understand the basic knowledge of general physics                          |
| CO-2                | Correlate theory of experiments with their experimental results            |
| CO-3                | Understand the scientific discoveries through hands on experience          |
| CO-4                | Demonstrate the skills through general physics and electronics experiments |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>QUANTUM MECHANICS &amp; RELATIVITY</b>                                    |
| <b>Code</b>         | <b>18PHU16 / 20PHU16</b>  |
|                     | <b>On completion of the course, students would be able to</b>                         |
| CO-1                | Understand the similarity and differences between C.M and Q.M                         |
| CO-2                | Understand the fundamental laws in C.M and Q.M  |
| CO-3                | Understand the basics of E.M Theory and its significances                             |
| CO-4                | Understand the concepts of special theory of relativity and its importance            |
| CO-5                | Understand the different experimental techniques used in General theory of relativity |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>MATHEMATICAL PHYSICS</b>  |
| <b>Code</b>         | <b>18PHU17 / 20PHU17</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Acquired ample idea about the various mathematical foundation about the vector and their application in physics |
| CO-2                | Understood The basic concepts of coordinates system and their importance in learning physics                    |
| CO-3                | Imparted the knowledge about matrix and their application in physical phenomena                                 |
| CO-4                | Attained the interpretation skills about various mathematical transforms in physics principle                   |
| CO-5                | Incorporating The knowledge of complex variables in physical system   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>PRINCIPLES OF DIGITAL ELECTRONICS</b>                               |
| <b>Code</b>         | <b>18PHU18 / 20PHU18</b>  |
|                     | <b>On completion of the course, students would be able to</b>                   |
| CO-1                | Understanding the concepts of basic Number systems                              |
| CO-2                | Distinguish and analyze the logic circuits                                      |
| CO-3                | Knowledge of the binary addition and subtraction and utilizes in it programming |
| CO-4                | Familiarize in registers and counters   |
| CO-5                | Attained an in depth knowledge of semiconductor memories                        |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Discipline Specific Elective Course – I<br/>SEMICONDUCTOR ELECTRONICS</b> |
|---------------------|--|

|             |   |
|-------------|---|
| <b>Code</b> | <b>18PHU19A / 20PHU19A</b>  |
|             | <b>On completion of the course, students would be able to</b>           |
| CO-1        | Get an idea about semiconductors, p-n junction and rectifier            |
| CO-2        | Gain knowledge on transistors and amplifiers                            |
| CO-3        | Learn about working of feedback, DC power supply and OPAMP              |
| CO-4        | Understand the fundamentals of oscillators and modulators               |
| CO-5        | Learn about the construction of Multivibrator and other digital systems |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Discipline Specific Elective Course – I<br/>BIOMEDICAL INSTRUMENTATION</b> |
| <b>Code</b>         | <b>18PHU19B / 20PHU19B</b>  |
|                     | <b>On completion of the course, students would be able to</b>                 |
| CO-1                | Studied basics of components of biomedical instrumentation                    |
| CO-2                | Learnt about the various transducers and their applications                   |
| CO-3                | Understood the configuration of bio potential recorders                       |
| CO-4                | Imbided the mechanism behind the various cardiograph instruments              |
| CO-5                | Gained knowledge on the modes and operation of pacemakers and defibrillators  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>NUCLEAR PHYSICS</b>   |
| <b>Code</b>         | <b>18PHU20 / 20PHU21</b>  |
|                     | <b>On completion of the course, students would be able to</b>                               |
| CO-1                | Understood on the basic concepts of nuclear composition and its properties                  |
| CO-2                | Gained knowledge on the process on radioactivity  |
| CO-3                | Learnt the basic methodologies of detection of ionizing radiation and particle accelerators |
| CO-4                | Imparted the knowledge of nuclear fission and fusion reactions                              |
| CO-5                | Understand the basic of cosmic rays and elementary particles                                |

|               |             |
|---------------|-------------|
| <b>Course</b> | <b>Core</b> |
|---------------|-------------|

|              |  |
|--------------|--|
| <b>Title</b> | <b>MATERIALS SCIENCE</b>   |
| <b>Code</b>  | <b>18PHU21 / 20PHU22</b>   |
|              | <b>On completion of the course, students would be able to</b>                |
| CO-1         | Gain the basic knowledge on the crystal structures                           |
| CO-2         | Understand the knowledge about the Conductors, Semiconductors and Insulators |
| CO-3         | Have a good knowledge on magnetic materials                                  |
| CO-4         | Gain basic knowledge on nano materials                                       |
| CO-5         | Gain knowledge about Non Destructive Testing (NDT) and their applications    |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>MICROPROCESSOR ARCHITECTURE AND PROGRAMMING</b>                            |
| <b>Code</b>         | <b>18PHU22 / 20PHU23</b>   |
|                     | <b>On completion of the course, students would be able to</b>                          |
| CO-1                | Understanding the concepts of microprocessor   |
| CO-2                | Knowledge of the interfacing devices   |
| CO-3                | Distinguish and analyze the 8085 microprocessor and 8086 microprocessor                |
| CO-4                | Knowledge of the 8051 microcontrollers   |
| CO-5                | Familiarize in 8085 instruction format and 8051 instruction format of microcontrollers |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Discipline Specific Elective Course – II<br/>ALTERNATE ENERGY RESOURCES</b> |
| <b>Code</b>         | <b>18PHU23A / 20PHU24A</b>   |
|                     | <b>On completion of the course, students would be able to</b>                  |
| CO-1                | Gained knowledge on the various energy sectors available                       |
| CO-2                | Attained an overall idea on the utilization of various energy resources        |
| CO-3                | Imbided basics on the biomass to energy conversion process                     |
| CO-4                | Studied the various forms of geothermal energy resources                       |
| CO-5                | Learnt the importance of hydrogen energy fuel cells                            |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Discipline Specific Elective Course – II<br/>BIO NANO PHYSICS</b> |
| <b>Code</b>         | <b>18PHU23B / 20PHU24B</b>   |
|                     | <b>On completion of the course, students would be able to</b>        |
| CO-1                | Studied the fundamentals of thermodynamics                           |
| CO-2                | Learnt the various Physico chemical techniques                       |
| CO-3                | Understood the structure of DNA and RNA molecules                    |
| CO-4                | Imbided the mechanism of energy conversion pathways                  |
| CO-5                | Gained knowledge on the smart and Nano materials                     |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>PHYSICS PRACTICAL III</b>   |
| <b>Code</b>         | <b>18PHU24 / 20PHU25</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Understand the basic concepts of general physics  |
| CO-2                | Correlate the theory with experimental results  |
| CO-3                | Gain knowledge on scientific discoveries through hands on experience  |
| CO-4                | Acquire enough general skills to handle variety of formulae, appear in various physical situations, with ease |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>PHYSICS PRACTICAL IV</b>  |
| <b>Code</b>         | <b>18PHU25/ 20PHU26</b>   |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Understand the basic concepts of general physics  |
| CO-2                | Correlate the theory with experimental results  |
| CO-3                | Gain knowledge on scientific discoveries through hands on experience  |
| CO-4                | Acquire enough general skills to handle variety of formulae, appear in various physical situations, with ease |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Generic Elective Course<br/>SOLAR ENERGY AND ITS UTILIZATION</b>     |
| <b>Code</b>         | <b>18GECPHU / 20GECPHU</b>  |
|                     | <b>On completion of the course, students would be able to</b>           |
| CO-1                | Gained knowledge on the current energy consumption of India             |
| CO-2                | Known the importance of non-conventional energy resources               |
| CO-3                | Understood basics on the efficient usage solar energy for daily purpose |



Since 1947

# PSG College of Arts & Science Coimbatore – 641 014

## Programme: BSc Chemistry

### Programme Outcomes

|      | On completion of the programme, the student will be able to   |
|------|---|
| PO-1 | Become knowledgeable in the subject of Chemistry and apply the principles of the same to the needs of the Employer / Institution / own Business or Enterprise |
| PO-2 | Gain Analytical skills in the field/area of Chemistry   |
| PO-3 | Understand and appreciate professional ethics, community living and Nation Building initiatives   |
| PO-4 | Able to function on different areas in Chemistry  |
| PO-5 | Identify and solve chemical problems and explore recent trends in research  |
| PO-6 | Analyze the environmental problems and issues related to Chemists   |
| PO-7 | Develop the skills ethically and professionally to become an entrepreneur   |
| PO-8 | Design a system to meet desired needs and become a Chemist with technical knowledge and moral values  |

### Programme Specific Outcomes

|       | On completion of the programme, the student will be able to  |
|-------|--|
| PSO-1 | Apply the knowledge of chemistry to appreciate, apply, develop and test the theoretical aspects for applications in various domains viz., energy, environment, materials, medicines, etc., |
| PSO-2 | Solve the complex problems in the various fields of chemistry using latest techniques, tools and methodologies to get appropriate solution   |
| PSO-3 | Apply the contextual knowledge of chemistry to multidisciplinary environments  |
| PSO-4 | Form a part of member in a team with right attitudes   |

### Course Outcomes

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>GENERAL CHEMISTRY – I</b>  |
| <b>Code</b>         | <b>18CHU01</b>   |
|                     | <b>On completion of the course, students would be able to</b>                  |
| CO-1                | Understand the structure of an atom  |
| CO-2                | Recall the nature of bonding in various molecules                              |
| CO-3                | Interpret mechanistic path way and reactive intermediates in organic reactions |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>ANALYTICAL CHEMISTRY</b>  |
| <b>Code</b>         | <b>18CHU02</b>  |
|                     | <b>On completion of the course, students would be able to</b>                 |
| CO-1                | Handle chemicals and glassware in safe manner                                 |
| CO-2                | Understand the fundamentals involved in qualitative and quantitative analysis |
| CO-3                | Purify the solid and liquid organic substances                                |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>GENERAL CHEMISTRY – II</b>                              |
| <b>Code</b>         | <b>18CHU04</b>  |
|                     | <b>On completion of the course, students would be able to</b>       |
| CO-1                | Know about Alkali and Alkaline earth metals                         |
| CO-2                | Understand fundamentals in Thermodynamics and Solid state chemistry |
| CO-3                | Name the organic compounds and understand their properties          |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>INDUSTRIAL CHEMISTRY</b>                          |
| <b>Code</b>         | <b>18CHU05</b>  |
|                     | <b>On completion of the course, students would be able to</b> |

|      |   |
|------|---|
| CO-1 | Know the manufacture of Glass, Cement and Ceramics      |
| CO-2 | Understand the importance of fertilizers                |
| CO-3 | Analyze the composition of paint                        |
| CO-4 | Recall the manufacture and importance of paper and soap |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>CHEMISTRY PRACTICAL – I</b>                        |
| <b>Code</b>         | <b>18CHU07</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Apply the theoretical concepts in qualitative analysis         |
| CO-2                | Elimination of interfering anions                              |
| CO-3                | Analyze the inorganic mixture systematically and qualitatively |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>GENERAL CHEMISTRY – III</b>  |
| <b>Code</b>         | <b>18CHU08</b>   |
|                     | <b>On completion of the course, students would be able to</b>                    |
| CO-1                | Acquire knowledge in P Block Elements  |
| CO-2                | Understand the chemistry of carbonyl compounds                                   |
| CO-3                | Classify and compare the properties of halogen compounds and phenols             |
| CO-4                | Identify the spontaneity of the chemical processes using entropy and free energy |
| CO-5                | Apply the thermodynamic variables in chemical equilibrium reactions              |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>GENERAL CHEMISTRY – IV</b>                         |
| <b>Code</b>         | <b>18CHU10</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Separate the mixture of organic compounds using chromatography |
| CO-2                | Understand the metallurgy of d-block elements                  |
| CO-3                | Identify the configuration of stereoisomer                     |
| CO-4                | Relate the composition and calorific value of different fuels  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>CHEMISTRY PRACTICAL – II</b>                      |
| <b>Code</b>         | <b>18CHU12</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Quantitative analysis of metal ions by titration method       |
| CO-2                | Qualitative analysis of given organic substance               |
| CO-3                | The preparation of simple organic compounds                   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>APPLIED CHEMISTRY PRACTICAL</b>                   |
| <b>Code</b>         | <b>18CHU13</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Synthesize drugs using simple organic compounds               |
| CO-2                | Identify and isolate organic compounds                        |
| CO-3                | Analyze the properties of drugs and oils                      |
| CO-4                | Detect the adulterants in food materials                      |
| CO-5                | Prepare candles, phenyl, soap and shampoo                     |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>ORGANIC CHEMISTRY –I</b>                          |
| <b>Code</b>         | <b>18CHU15</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Elucidate the structure of carbohydrates                      |
| CO-2                | Analyze the structure of natural products                     |
| CO-3                | Recall the concept of tautomerism and acids & bases           |
| CO-4                | Predict the mechanism of carbonyl compounds                   |
| CO-5                | Identify the nature and function of dyes                      |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>INORGANIC CHEMISTRY I</b>                         |
| <b>Code</b>         | <b>18CHU16</b>  |
|                     | <b>On completion of the course, students would be able to</b> |

|      |  |
|------|--|
| CO-1 | Identify the configuration of coordination complex isomers         |
| CO-2 | Familiarize with the properties of transition metals               |
| CO-3 | Calculate the CFSE of complexes                                    |
| CO-4 | Understand the importance of metal complexes in biological systems |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>PHYSICAL CHEMISTRY – I</b>                                  |
| <b>Code</b>         | <b>18CHU17</b>  |
|                     | <b>On completion of the course, students would be able to</b>           |
| CO-1                | Solve numerical problems in electrochemistry                            |
| CO-2                | Know the buffer action in maintaining the ph of the solutions           |
| CO-3                | Understand the concepts of electroplating and corrosion control methods |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>NANO AND GREEN CHEMISTRY</b>                      |
| <b>Code</b>         | <b>18CHU18</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Synthesize nano particles using various processes             |
| CO-2                | Characterize the nano particles                               |
| CO-3                | Recall the green chemical synthesis methods                   |
| CO-4                | Design chemical reactions using green solvents                |
| CO-5                | Perform microwave and photochemical reactions                 |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Discipline Specific Elective – I<br/>POLYMER CHEMISTRY</b>                 |
| <b>Code</b>         | <b>18CHU19A</b>   |
|                     | <b>On completion of the course, students would be able to</b>                 |
| CO-1                | Understand the polymerization mechanisms                                      |
| CO-2                | Select a suitable technique for polymer characterisation                      |
| CO-3                | Assess the mechanical properties and identify the stereochemistry of polymers |
| CO-4                | Realize the importance of industrial polymers and recycling of polymers       |
| CO-4                | Select an appropriate moulding technique for a particular polymer             |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Discipline Specific Elective – I<br/>DYE CHEMISTRY</b>     |
| <b>Code</b>         | <b>18CHU19B</b>   |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Understand the colour and constitution of dyes                |
| CO-2                | Classify the type of dyes                                     |
| CO-2                | Prepare and characterize dyes                                 |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>INSTRUMENTAL METHODS OF CHEMICAL ANALYSIS</b>                        |
| <b>Code</b>         | <b>18CHU21</b>   |
|                     | <b>On completion of the course, students would be able to</b>                    |
| CO-1                | Apply statistical methods to solve problems                                      |
| CO-2                | Interpret simple thermograms and polarograms                                     |
| CO-3                | Quantitative estimate by colorimetric titrations                                 |
| CO-4                | Solve simple problems in UV-Vis, IR, Raman, NMR and ESR spectroscopic techniques |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>ORGANIC CHEMISTRY –II</b>                               |
| <b>Code</b>         | <b>18CHU22</b>  |
|                     | <b>On completion of the course, students would be able to</b>       |
| CO-1                | Predict the properties and reactivity of heterocyclic compounds     |
| CO-2                | Understand the importance of reagents that bring FG interconversion |
| CO-3                | Recall the structure and functions of biomolecules                  |
| CO-4                | Predict the mechanism of reactions                                  |
| CO-5                | Recognize the conformation of the organic molecules                 |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>INORGANIC CHEMISTRY II</b>                        |
| <b>Code</b>         | <b>18CHU23</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Distinguish lanthanides and actinides                         |

|      |  |
|------|--|
| CO-2 | Calculate the half-life period of radioactive isotopes                                       |
| CO-3 | Realize the industrial significance of carbides, hydrides, nitrides and non aqueous solvents |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>PHYSICAL CHEMISTRY II</b>                         |
| <b>Code</b>         | <b>18CHU24</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Acquire fundamental knowledge in chemical kinetics            |
| CO-2                | Understand photochemistry and phase rule                      |
| CO-3                | Identify the point group of molecules                         |
| CO-4                | Apply the operator properties to wave functions               |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Discipline Specific Elective – II<br/>PHARMACEUTICAL CHEMISTRY</b> |
| <b>Code</b>         | <b>18CHU25A</b>   |
|                     | <b>On completion of the course, students would be able to</b>         |
| CO-1                | Recall the fundamentals of pharmaceutical chemistry                   |
| CO-2                | Understand the mechanism of action of drugs                           |
| CO-3                | Know the biological importance of several inorganic drugs             |
| CO-4                | Relate the cardiovascular diseases and the specific drugs             |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Discipline Specific Elective – II<br/>TEXTILE CHEMISTRY</b> |
| <b>Code</b>         | <b>18CHU25B</b>  |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Understand the fundamentals of textile chemistry               |
| CO-2                | Identify the colour and constitution of dyes                   |
| CO-3                | Recall the methods in textile processing and printing          |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>CHEMISTRY PRACTICAL III</b> |
| <b>Code</b>         | <b>18CHU26</b>                          |

|      | <b>On completion of the course, students would be able to</b>                   |
|------|---|
| CO-1 | Determine the various physical constants  |
| CO-2 | Prepare standard solutions and reagents   |
| CO-3 | Estimate the metal ions using gravimetric analysis                              |
| CO-4 | Apply electrochemistry principles for the qualitative and quantitative analysis |

| <b>Course Title</b> | <b>Generic Elective Course – Cluster – I<br/>CHEMISTRY IN EVERYDAY LIFE</b> |
|---------------------|---|
| <b>Code</b>         | <b>18GECEDC</b>   |
|                     | <b>On completion of the course, students would be able to</b>               |
| CO-1                | Understand the nature and importance of water                               |
| CO-2                | Get the awareness of usage of domestic chemicals                            |
| CO-3                | Recall the basic concepts of oils, fats and vitamins                        |

| <b>Course Title</b> | <b>Allied<br/>CHEMISTRY – I</b>                                   |
|---------------------|---|
| <b>Code</b>         | <b>18PHU10</b>  |
|                     | <b>On completion of the course, students would be able to</b>     |
| CO-1                | Understand the structures of compounds and coordination chemistry |
| CO-2                | Know the applications of drugs and colloids                       |
| CO-3                | Recall the knowledge in photochemistry and catalysis              |
| CO-4                | Acquire knowledge in chemical kinetics                            |

| <b>Course Title</b> | <b>Allied<br/>18PHU13</b>                                     |
|---------------------|---|
| <b>Code</b>         | <b>CHEMISTRY – II</b>   |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Prepare standard solutions and apply statistical methods      |
| CO-2                | Understand the principles of electrochemistry, thermodynamics |
| CO-3                | Know the basic concepts related to UV-Visible spectroscopy    |

| <b>Course</b> | <b>Allied</b> |
|---------------|---------------|
|---------------|---------------|

|              |   |
|--------------|---|
| <b>Title</b> | <b>CHEMISTRY – I</b>  |
| <b>Code</b>  | <b>18BOU11</b>  |
|              | <b>On completion of the course, students would be able to</b>   |
| CO-1         | Understand the basics of natural products                       |
| CO-2         | Separate and purify the organic compounds                       |
| CO-3         | Apply the elementary aspects of chemical kinetics and catalysis |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Allied<br/>CHEMISTRY – II</b>   |
| <b>Code</b>         | <b>18BOU14</b>   |
|                     | <b>On completion of the course, students would be able to</b>                                      |
| CO-1                | Understand the basics about fertilizers, heterocyclic compounds, amino acids and dyes and pigments |
| CO-2                | Know about the heavy metal pollution   |
| CO-3                | Acquire basic knowledge in green chemistry   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Allied<br/>CHEMISTRY – I</b>                                 |
| <b>Code</b>         | <b>18ZOU11</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Asses the properties of acids, bases, alkaloids and terpenoids  |
| CO-2                | Separate and purify chemical compounds                          |
| CO-3                | Apply the elementary aspects of chemical kinetics and catalysis |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Allied<br/>CHEMISTRY – II</b>  |
| <b>Code</b>         | <b>18ZOU14</b>  |
|                     | <b>On completion of the course, students would be able to</b>                             |
| CO-1                | Classify the coordination compounds   |
| CO-2                | Explain the chemistry of fertilizers, heterocyclic compounds, amino acids, drugs and dyes |
| CO-3                | Identify the effect of heavy metal pollution  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Allied<br/>CHEMISTRY – I</b>                                     |
| <b>Code</b>         | <b>18NDU03</b>  |
|                     | <b>On completion of the course, students would be able to</b>       |
| CO-1                | Gain laboratory safety measures                                     |
| CO-2                | Recall the concepts of bonding and nature of heterocyclic compounds |
| CO-3                | Know the fundamental of drugs, dyes and colloids                    |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Allied<br/>CHEMISTRY – II</b>                              |
| <b>Code</b>         | <b>18NDU07</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Purify the mixture of compounds                               |
| CO-2                | Recall the importance of elements in biological system        |
| CO-3                | Get awareness of pollutions                                   |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Allied<br/>CHEMISTRY PRACTICAL</b>                                      |
| <b>Code</b>         | <b>18PHU15/18BOU16/18ZOU17/18NDU09</b>                                     |
|                     | <b>On completion of the course, students would be able to</b>              |
| CO-1                | Gained basic knowledge in acid – base, redox and complexometric titrations |
| CO-2                | Learned the basic experimenting skills in organic analysis                 |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Allied<br/>CHEMISTRY FOR MICROBIOLOGY</b>                   |
| <b>Code</b>         | <b>18MBU12</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Separate the mixture of organic compounds using chromatography |
| CO-2                | Understand the chemistry of biological system                  |
| CO-3                | Understand the importance of fertilizers                       |
| CO-4                | Get awareness on polymers                                      |



Since 1947

# PSG College of Arts & Science Coimbatore – 641 014

## Programme: BSc Botany

### Programme Outcomes

|      | <b>On completion of the programme, the student will be able to</b>   |
|------|--|
| PO-1 | Become knowledgeable in the subject of Botany and apply the principles of the same to the needs of the Employer / Institution / own Business or Enterprise |
| PO-2 | Gain Analytical skills in the field/area of Plant Diversity, Bioinformatics & Medicinal Plants   |
| PO-3 | Understand and appreciate professional ethics, community living and Nation Building initiatives  |
| PO-4 | Encouraging the students for self-employment by knowledge and giving hands on training programme on Mushroom cultivation                                   |
| PO-5 | Train the students through Institutional training and collaborative training programmes  |
| PO-6 | Encouraging the students to present research papers in National level Conferences  |
| PO-7 | Acquire knowledge in field and industry oriented trainings   |
| PO-8 | Making students to preserve endangered plants through tissue culture   |

### Programme Specific Outcomes

|       | <b>On completion of the programme, the student will be able to</b>   |
|-------|--|
| PSO-1 | Apply the knowledge of Botany in the domain of Molecular biology, Garden plants and Microbial Biotechnology  |
| PSO-2 | Solve the complex problems in the field of Plant Tissue Culture - to preserve rare and endangered plants with an understanding of the societal, legal and cultural impacts |

**Course Outcomes**

| <b>Course Title</b> | <b>Core<br/>MICROBIOLOGY</b>  |
|---------------------|---|
| <b>Code</b>         | <b>18BOU01</b>  |
|                     | <b>On completion of the course, students would be able to</b>                       |
| CO-1                | Gained Knowledge in basic microbial techniques and handling of laboratory specimens |
| CO-2                | Learned the various diagnostic methods to control plant pathogens                   |
| CO-3                | Acquired knowledge in Identification of microbial diseases affected in plants       |
| CO-4                | Understood the isolation and identification of food spoilage microbes               |

| <b>Course Title</b> | <b>Core<br/>PLANT DIVERSITY</b>                                 |
|---------------------|---|
| <b>Code</b>         | <b>18BOU02</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Acquired a sound knowledge on the distribution of plant kingdom |
| CO-2                | Developed the skill in handling various classifications         |
| CO-3                | Cultivated the knowledge on fossil to become a paleontologist   |

| <b>Course Title</b> | <b>Core<br/>VEGETATIVE PLANT BIOLOGY</b>                           |
|---------------------|--|
| <b>Code</b>         | <b>18BOU04</b>   |
|                     | <b>On completion of the course, students would be able to</b>      |
| CO-1                | Learned the interrelationship among the plants and environment     |
| CO-2                | Employment opportunities in various conservation bodies            |
| CO-3                | Acquired knowledge on types processing and economic uses of timber |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>REPRODUCTIVE PLANTBIOLOGY</b>   |
| <b>Code</b>         | <b>18BOU05</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Gaining over all knowledge on the basic reproductive structures such as flower, fruit and seed                      |
| CO-2                | Improves the knowledge on the process of seed germination, mobilization of reserve foods and formation of seedlings |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>PLANT SCIENCE PRACTICAL I</b>   |
| <b>Code</b>         | <b>18BOU07</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Learned the cultivation techniques for isolation and enumeration of microorganisms & identification of plant pathological specimens |
| CO-2                | Capability in handling microscope and microscopic structures  |
| CO-3                | Identify and easy handling in taking sections   |
| CO-4                | Acquire complete knowledge on ultra structural details and functional coordination of important cell organelles                     |
| CO-5                | Clear understanding of differentiation, composition and functional role of different tissue systems of plants                       |
| CO-6                | Field exposure enhances better understanding of morphology  |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>CELL AND TISSUE BIOLOGY</b>  |
| <b>Code</b>         | <b>18BOU09</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Acquired complete knowledge on ultra structural details and functional coordination of important cell organelles |
| CO-2                | Understood differentiation, composition of a functional role of different tissue systems of plants               |

|               |             |
|---------------|-------------|
| <b>Course</b> | <b>Core</b> |
|---------------|-------------|

|              |  |
|--------------|--|
| <b>Title</b> | <b>GENETICS &amp; GENETIC IMPROVEMENT OF CROPS</b>                   |
| <b>Code</b>  | <b>18BOU12</b>   |
|              | <b>On completion of the course, students would be able to</b>        |
| CO-1         | Attained broad knowledge in classical and modern aspects of genetics |
| CO-2         | Opportunities in breeding stations                                   |
| CO-3         | Develop the crops using hybridization techniques                     |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>MOLECULAR BIOLOGY</b>   |
| <b>Code</b>         | <b>18BOU13</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Improved the knowledge with substantial basic and updated information on the structure, chemical composition, biological role of proteins and nucleic acids |
| CO-2                | Understood various structural components, replication, expression and regulation of genes   |
| CO-3                | Understood all the aspects of protein synthesis, chromosome types and organization  |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>PLANT SCIENCE PRACTICAL II</b>   |
| <b>Code</b>         | <b>18BOU15</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Learned the techniques for cell division, tissue identification, osmotic relationships and conduction of water in plants                                   |
| CO-2                | Understood mean, mode, standard error, standard deviation through basic biostatistics problem  |
| CO-3                | Practically learned the interaction of genes & Work out genetic problems on different types of crosses, dominance, Co dominance and inheritance of factors |
| CO-4                | Observed the techniques and operations of different instruments used in molecular studies  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>PLANT SYSTEMATICS AND ECONOMIC BOTANY</b> |
|---------------------|---|

|             |   |
|-------------|---|
| <b>Code</b> | <b>18BOU17</b>  |
|             | <b>On completion of the course, students would be able to</b> |
| CO-1        | Inculcated knowledge on nomenclature and classification       |
| CO-2        | Understood the latest fields in solving taxonomical problems  |
| CO-3        | Classify the plants in their respective classes               |
| CO-4        | Understood the economic importance of the plants              |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>MICROBIAL BIOTECHNOLOGY</b>   |
| <b>Code</b>         | <b>18BOU18</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Critically evaluate the role of micro-organisms in specific biotechnological processes                |
| CO-2                | Explain the complex processes behind the development of genetically manipulated organisms             |
| CO-3                | Demonstrate a clear understanding of how biochemical pathways relate to biotechnological applications |
| CO-4                | Set up a mushroom farm.   |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>BIOINFORMATICS</b>   |
| <b>Code</b>         | <b>18BOU19</b>   |
|                     | <b>On completion of the course, students would be able to</b>                              |
| CO-1                | Gained knowledge on the development of Bioinformatics and its application                  |
| CO-2                | Understood the data stored in different biological databases and exploring the information |
| CO-3                | Acquired knowledge in drug discovery   |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Discipline Specific Elective Course I<br/>MEDICINAL PLANT SCIENCE</b> |
| <b>Code</b>         | <b>18BOU20A</b>  |
|                     | <b>On completion of the course, students would be able to</b>            |
| CO-1                | Obtained knowledge of techniques in crude drug preparation               |

|      |   |
|------|---|
| CO-2 | Acquired knowledge in identifying medicinal herbs |
| CO-3 | Understood herbal remedies for various ailments   |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Discipline Specific Elective Course I<br/>UNDERSTANDING BIOLOGICAL DATABASE</b>   |
| <b>Code</b>         | <b>18BOU20B</b>  |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Acquired knowledge on databases for nucleic acids and proteins and able to use different retrieving tools for specific information |
| CO-2                | Preview over the specialized databases to access data  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>PLANT ECOLOGY</b>   |
| <b>Code</b>         | <b>18BOU22</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Master core concepts and methods from ecological and physical sciences and their application in environmental problem solving           |
| CO-2                | Appreciate the ethical, cross - cultural and historical context of environmental issues and the links between human and natural systems |
| CO-3                | Understood interactions between social and environmental processes  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>GENETIC ENGINEERING</b>   |
| <b>Code</b>         | <b>18BOU23</b>  |
|                     | <b>On completion of the course, students would be able to</b>                                       |
| CO-1                | Understood the uses of restriction enzymes and different methods of genetic transformation          |
| CO-2                | Enriched the knowledge on genetic engineering in agriculture, medicine and production of transgenes |
| <b>Course Title</b> | <b>Core<br/>PLANT METABOLISM</b>  |
| <b>Code</b>         | <b>18BOU24</b>  |

|      |  |
|------|--|
|      | <b>On completion of the course, students would be able to</b>      |
| CO-1 | Understood the energy mechanism in a plant system                  |
| CO-2 | Acquired conception is utilized in various physiological functions |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>HORTICULTURE</b>   |
| <b>Code</b>         | <b>18BOU25</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Understood the business of nursery plantations and gained knowledge in landscape project and maintenance |
| CO-2                | Develop solutions for a wide variety of plant health issues  |
| CO-3                | Categorize plants based on growth, morphological, and taxonomic characteristics                          |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Discipline Specific Elective Course II<br/>PLANT TISSUE CULTURE</b> |
| <b>Code</b>         | <b>18BOU26A</b>  |
|                     | <b>On completion of the course, students would be able to</b>          |
| CO-1                | Learned to set up a commercial Plant tissue culture laboratory         |
| CO-2                | Understood the standardized procedure for explants                     |
| CO-3                | Analysed the utility of secondary metabolites for mass production      |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Discipline Specific Elective Course II<br/>PLANT PATHOLOGY</b> |
| <b>Code</b>         | <b>18BOU26B</b>   |
|                     | <b>On completion of the course, students would be able to</b>     |
| CO-1                | Understood the control plants diseases                            |
| CO-2                | Acquired Knowledge in plant defensive mechanisms                  |
| CO-3                | Learned the techniques in symptoms of plant diseases              |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>PLANT SCIENCE PRACTICAL III</b> |
| <b>Code</b>         | <b>18BOU27</b>                              |

|      | <b>On completion of the course, students would be able to</b>                          |
|------|--|
| CO-1 | Gained knowledge in identification of indigenous plants with respect to their families |
| CO-2 | Field exposure and herbarium techniques build the taxonomic skill                      |
| CO-3 | Acquired knowledge in preparation of medicinal powders                                 |
| CO-4 | Learned to set up a mushroom farm  |

| <b>Course Title</b> | <b>Core<br/>PLANT SCIENCE PRACTICAL IV</b>   |
|---------------------|--|
| <b>Code</b>         | <b>18BOU28</b>   |
|                     | <b>On completion of the course, students would be able to</b>                          |
| CO-1                | Applied the concepts to analyze and understand interactions of environmental processes |
| CO-2                | Enriched the knowledge on screening of recombinant application of genetic engineering  |
| CO-3                | Understood the energy mechanism in a plant system                                      |
| CO-4                | Learned the techniques to set up a commercial Plant Tissue Culture Laboratory          |
| CO-5                | Acquired knowledge in nursery plantations  |

| <b>Course Title</b> | <b>Core<br/>PLANT BIOLOGY I</b>                                 |
|---------------------|---|
| <b>Code</b>         | <b>18ZOU03</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Acquired a sound knowledge on the distribution of plant kingdom |
| CO-2                | Understood herbal remedies for various ailments                 |
| CO-3                | Understood the economic importance of the plants                |

| <b>Course Title</b> | <b>Core<br/>PLANT BIOLOGY I</b>                                 |
|---------------------|---|
| <b>Code</b>         | <b>18ZOU03</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Acquired a sound knowledge on the distribution of plant kingdom |
| CO-2                | Understood herbal remedies for various ailments                 |

|      |  |
|------|--|
| CO-3 | Understood the economic importance of the plants |
|------|--|

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>PLANT BIOLOGY II</b>   |
| <b>Code</b>         | <b>18ZOU06</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Learned to set up a commercial Plant tissue culture laboratory   |
| CO-2                | Understood the business of nursery plantations and gained knowledge in landscape project and maintenance |
| CO-3                | Learned to set up a mushroom farm  |
| CO-4                | Understood the mechanisms of plant functions   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>PLANT BIOLOGY PRACTICAL</b>                       |
| <b>Code</b>         | <b>18ZOU08</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Learned the techniques in taking sections                     |
| CO-2                | Acquired knowledge in setting up a nursery                    |
| CO-3                | Identified the indigenous plants                              |
| CO-4                | Gained knowledge in plant functions                           |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Generic Elective Course<br/>Basics of Horticulture</b>                                   |
| <b>Code</b>         | <b>18GECBOU</b>   |
|                     | <b>On completion of the course, students would be able to</b>                               |
| CO-1                | Learned various propagation methods of horticultural plants                                 |
| CO-2                | Acquired knowledge in bonsai cultivation  |
| CO-3                | Enriched knowledge in cultivation, harvesting and post harvest storage techniques of fruits |



Since 1947

# PSG College of Arts & Science Coimbatore – 641 014

## Programme: BSc Zoology

### Programme Outcomes

|      | <b>On completion of the programme, the student will be able to</b>   |
|------|--|
| PO-1 | Become knowledgeable in the subject of Zoology and apply the principles of the same to the needs of the Employer / Institution /own Business or Enterprise |
| PO-2 | Gain Analytical skills in the field/area of Applied Zoology  |
| PO-3 | Understand and appreciate professional ethics, community living and Nation building initiatives  |
| PO-4 | Gain thorough knowledge of Animal Kingdom  |
| PO-5 | Understand the organization of animals   |
| PO-6 | Understand the functional aspects of cell and its life   |
| PO-7 | Understand the importance of biodiversity  |
| PO-8 | Inculcate to pursue higher studies such as research and development for the benefit of mankind and animals itself  |

### Programme Specific Outcomes

|       | <b>On completion of the programme, the student will be able</b>   |
|-------|---|
| PSO-1 | Apply the knowledge of Zoology in the domain of producing animal products   |
| PSO-2 | Solve the complex problems in the field of animal breeding techniques with an understanding of the societal, legal and cultural impacts of the solution |
| PSO-3 | Develops the upgraded techniques by using the Hands-on training given   |
| PSO-4 | Form a part of member in a team with right attitudes  |

### Course Outcomes

| <b>Course Title</b> | <b>Core<br/>ANIMAL DIVERSITY -I</b>  |
|---------------------|--|
| <b>Code</b>         | <b>18ZOU01</b>   |
|                     | <b>On completion of the course, students would be able to</b>                                  |
| CO-1                | Acquire knowledge of fundamental principles of different phyla under the division Invertebrata |
| CO-2                | Gain thorough knowledge of the diagnostic and adaptive features of Invertebrate animals        |

| <b>Course Title</b> | <b>Core<br/>CELL BIOLOGY</b>  |
|---------------------|---|
| <b>Code</b>         | <b>18ZOU02</b>  |
|                     | <b>On completion of the course, students would be able to</b>                           |
| CO-1                | Understand the principles and working of microscopes                                    |
| CO-2                | Impart knowledge about the fine structure of various types of cells and cell organelles |
| CO-3                | Understand the biological secrets of Life   |

| <b>Course Title</b> | <b>Core<br/>ANIMAL DIVERSITY- II</b>                                       |
|---------------------|--|
| <b>Code</b>         | <b>18ZOU04</b>   |
|                     | <b>On completion of the course, students would be able to</b>              |
| CO-1                | Acquire knowledge of characteristic features of different chordate animals |
| CO-2                | Gain knowledge about the general aspects of fishes and snakes              |

| <b>Course Title</b> | <b>Core<br/>EMBRYOLOGY</b>                                    |
|---------------------|---|
| <b>Code</b>         | <b>18ZOU05</b>  |
|                     | <b>On completion of the course, students would be able to</b> |

|      |   |
|------|---|
| CO-1 | Acquire knowledge of development of different animals |
| CO-2 | Utilize the knowledge for human welfare               |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>MAJOR PRACTICAL – I</b>                           |
| <b>Code</b>         | <b>18ZOU07</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Identify and classify the specimens                           |
| CO-2                | Understand the morphological and anatomical features          |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>GENETICS</b>                                      |
| <b>Code</b>         | <b>18ZOU09</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Understand the inheritance and function of genes              |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>SERICULTURE</b>   |
| <b>Code</b>         | <b>18ZOU10</b>  |
|                     | <b>On completion of the course, students would be able to</b>                       |
| CO-1                | Acquire knowledge about the biology of silkworm and the various rearing techniques. |
| CO-2                | Know about the various techniques of propagating mulberry plants                    |
| CO-3                | Know about the various diseases of mulberry plants and silkworms                    |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>MICROBIOLOGY</b>                                     |
| <b>Code</b>         | <b>18ZOU12</b>   |
|                     | <b>On completion of the course, students would be able to</b>    |
| CO-1                | Gain knowledge about the microbial world                         |
| CO-2                | Develop skills in the preparation of culture methods of bacteria |

|      |  |
|------|--|
| CO-3 | Understand the mode of transmission of infectious diseases |
|------|--|

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>EVOLUTION</b>  |
| <b>Code</b>         | <b>18ZOU13</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Understand the basic principles of evolution and the various courses which bring about the evolution of life |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>MAJOR PRACTICAL – II</b>                               |
| <b>Code</b>         | <b>18ZOU15</b>   |
|                     | <b>On completion of the course, students would be able to</b>      |
| CO-1                | Realize the significance of biological molecules                   |
| CO-2                | Think about to start a small scale industry                        |
| CO-3                | Develop the preventive measures and create awareness among public. |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>PHYSIOLOGY</b>   |
| <b>Code</b>         | <b>18ZOU17 / 20ZOU17</b>   |
|                     | <b>On completion of the course, students would be able to</b>              |
| CO-1                | Understand the structure and functions of organ systems of various animals |
| CO-2                | Gain knowledge on the Chronobiological aspects                             |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>BIOTECHNOLOGY – I</b>  |
| <b>Code</b>         | <b>18ZOU18 / 20ZOU18</b>   |
|                     | <b>On completion of the course, students would be able to</b>                    |
| CO-1                | Understand the various techniques and principles involved in genetic-engineering |
| CO-2                | Understand the applications of biotechnology in animal and human welfare         |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Discipline Specific Elective Course – I<br/>MEDICAL LABORATORY TECHNOLOGY</b> |
| <b>Code</b>         | <b>18ZOU19A / 20ZOU19A</b>   |
|                     | <b>On completion of the course, students would be able to</b>                    |
| CO-1                | Acquire knowledge about various laboratory equipments for biological studies     |
| CO-2                | Understand the various techniques of handling laboratory equipments              |
| CO-3                | Know about the various tests to identify different diseases                      |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Discipline Specific Elective Course – I<br/>APICULTURE</b>           |
| <b>Code</b>         | <b>18ZOU19B / 20ZOU 19B</b>   |
|                     | <b>On completion of the course, students would be able to</b>           |
| CO-1                | Understand the colonial and social life of honey bees                   |
| CO-2                | Develop skill for self- employment in Bee- keeping and honey extraction |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>COMPUTER APPLICATIONS IN BIOLOGY</b>                  |
| <b>Code</b>         | <b>18ZOU20</b>  |
|                     | <b>On completion of the course, students would be able to</b>     |
| CO-1                | Understand the basic structure of computer and MS Office software |
| CO-2                | Acquire knowledge in resources of internet and Bioinformatics     |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>BIOTECHNOLOGY – II</b>   |
| <b>Code</b>         | <b>18ZOU22 / 20ZOU23</b>   |
|                     | <b>On completion of the course, students would be able to</b>                    |
| CO-1                | Understand the various techniques and principles involved in genetic-engineering |
| CO-2                | Understand the applications of biotechnology in animal and human welfare         |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>IMMUNOLOGY</b>  |
| <b>Code</b>         | <b>18ZOU23 / 20ZOU24</b>  |
|                     | <b>On completion of the course, students would be able to</b>         |
| CO-1                | Understand about the structure and functions of immune systems of man |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Discipline Specific Elective Course – II<br/>ORNAMENTAL FISH BREEDING</b>     |
| <b>Code</b>         | <b>18ZOU24A / 20ZOU25A</b>   |
|                     | <b>On completion of the course, students would be able to</b>                    |
| CO-1                | Gain knowledge about Ornamental fishes   |
| CO-2                | Develop skill in rearing, breeding and marketing of freshwater ornamental fishes |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Discipline Specific Elective Course – II<br/>POULTRY FARMING</b> |
| <b>Code</b>         | <b>18ZOU24B / 20ZOU25B</b>  |
|                     | <b>On completion of the course, students would be able to</b>       |
| CO-1                | Acquire knowledge of basic principles of the subject                |
| CO-2                | realize the economic importance of the subject                      |
| CO-3                | Utilize the knowledge for the day- to- day life                     |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>ENVIRONMENTAL BIOLOGY</b>                         |
| <b>Code</b>         | <b>18ZOU25 / 20ZOU26</b>                                      |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Gain knowledge about the environment and its relation to man  |
| CO-2                | Understand the technique of Methane production from wastes    |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>MAJOR PRACTICAL – III</b>                         |
| <b>Code</b>         | <b>18ZOU27 / 20ZOU28</b>                                      |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Get opportunity to work in a medical laboratory               |
| CO-2                | Make the students to start an apiary and become entrepreneur  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>MAJOR PRACTICAL – IV</b>                          |
| <b>Code</b>         | <b>18ZOU28 / 20ZOU29</b>                                      |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Start a data processing centre                                |
| CO-2                | Conserve the environment                                      |
| CO-3                | Start an aquarium and poultry farming                         |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>ZOOLOGY – I</b>   |
| <b>Code</b>         | <b>18BOU03</b>  |
|                     | <b>On completion of the course, students would be able to</b>                                 |
| CO-1                | Acquire knowledge of fundamental principles of different phyla                                |
| CO-2                | To acquire thorough knowledge of the diagnostic and adaptive features of Invertebrate animals |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>ZOOLOGY – II</b>                                  |
| <b>Code</b>         | <b>18BOU06</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Understand the role of Agricultural pests                     |
| CO-2                | Understand the Pest Control measures                          |
| CO-3                | Start a sericulture centre                                    |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>ZOOLOGY (Ancillary) PRACTICAL</b>                     |
| <b>Code</b>         | <b>18BOU08</b>  |
|                     | <b>On completion of the course, students would be able to</b>     |
| CO-1                | Identify and classify the specimens                               |
| CO-2                | Understand the morphological and anatomical features              |
| CO-3                | Realize the significance of biological molecules                  |
| CO-4                | Think about to start a small scale industry                       |
| CO-5                | Develop the preventive measures and create awareness among public |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>IDC<br/>GENERAL BIOLOGY</b>                                |
| <b>Code</b>         | <b>18BCV03</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Understand the biology of endoparasites in man                |
| CO-2                | Be aware of environmental degradation                         |
| CO-3                | Understand the mechanism of heredity                          |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>BIOLOGY PRACTICAL</b>                             |
| <b>Code</b>         | <b>18BCV05</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Identify and classify the specimens                           |
| CO-2                | Understand the morphological and anatomical features.         |
| CO-3                | Get opportunity to work in a medical laboratory               |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Generic Elective Course<br/>ORNAMENTAL FISH KEEPING</b>                       |
| <b>Code</b>         | <b>18GECZOU</b>  |
|                     | <b>On completion of the course, students would be able to</b>                    |
| CO-1                | Acquire knowledge about Ornamental fishes  |
| CO-2                | Develop skill in rearing, breeding and marketing of freshwater ornamental fishes |



Since 1947

## PSG College of Arts & Science Coimbatore – 641 014

### Programme: BSc Nutrition, Food Service Management and Dietetics

#### Programme Outcomes

|      | On completion of the programme, the student will be able to   |
|------|---|
| PO-1 | Become knowledgeable in the subject of Nutrition, food Service management and Dietetics and apply the principles of the same to the needs of the employer/institution/own business or enterprise and society in general |
| PO-2 | Understand and appreciate professional ethics, community living and Nation Building initiatives.  |
| PO-3 | Comprehend the applications of Nutrition and Management principles to meet societal requirements.   |
| PO-4 | Analyze the changing global nutritional scenario and interpret its association with food habits, lifestyle and environment.   |
| PO-5 | Effectively communicate relevant nutrition information to the community at large.   |
| PO-6 | Generate new ideas and concepts to develop innovative, value added and functional food products.  |
| PO-7 | Form a part of a member in a team with the right attitude in group projects and trainings.  |
| PO-8 | Adapt to technological changes that facilitate environmental sustainability.  |

#### Programme Specific Outcomes

|       | On completion of the programme, the student will be able  |
|-------|---|
| PSO-1 | Apply the knowledge of principles of Nutrition in the domain of Health and Wellness. Develop strong basic theoretical knowledge and empower oneself for applications in various domains of Nutrition. |
| PSO-2 | Gain analytical skills to solve complex problems in the field of Nutrition with an  |

|       |  |
|-------|--|
|       | understanding of the societal, legal and cultural impact of the solutions.   |
| PSO-3 | Acquire technical, managerial and interpersonal skills through experiential learning with the six specialized trainings offered during the course. |
| PSO-4 | Develop necessary aptitude and expertise to start a small scale food processing industry.  |
| PSO-5 | Enhance professional competencies in Nutrition Care Process to address the health needs of the society.  |

### Course Outcomes

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>EXPERIMENTAL FOOD SCIENCE</b>   |
| <b>Code</b>         | <b>18NDU01</b>   |
|                     | <b>On completion of the course, students would be able to</b>                              |
| CO-1                | Evaluate the cooking quality of foods in the context of Indian cookery                     |
| CO-2                | Demonstrate the basic understanding of composition of foods for culinary use               |
| CO-3                | Understand the right selection criteria for various foods on end use                       |
| CO-4                | Identify and recognize the physical and chemical alterations in food components on cooking |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>CHEMISTRY OF FOODS</b>   |
| <b>Code</b>         | <b>18NDU02</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Relate the chemical composition of foods to their functional properties  |
| CO-2                | Interpret the role of water in chemical reactions as a solvent in food systems                                 |
| CO-3                | Explain the chemistry of acidity/alkalinity, colloids, proximate principles, pigments and flavoring compounds. |
| CO-4                | Discuss the principles and concept of food chemistry and their applications                                    |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>EXPERIMENTAL FOOD SCIENCE PRACTICAL</b>                         |
| <b>Code</b>         | <b>18NDU03</b>  |
|                     | <b>On completion of the course, students would be able to</b>               |
| CO-1                | Utilize the knowledge on standard weights and measures in food preparations |
| CO-2                | Identify and categorize foods in accordance with basic food groups          |
| CO-3                | Demonstrate the best method of cooking various foods                        |
| CO-4                | Apply basic food science principles in recipe preparations                  |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>PRINCIPLES OF NUTRITION</b>  |
| <b>Code</b>         | <b>18NDU05</b>   |
|                     | <b>On completion of the course, students would be able to</b>                                      |
| CO-1                | Recommend nutrient intake for different age groups based on sex, special needs and activity levels |
| CO-2                | Identify foods rich in specific nutrients  |
| CO-3                | Assess & recognize nutritional deficiencies through clinical signs and symptoms                    |
| CO-4                | Recognize the role of nutrients in body functions and health.                                      |
| CO-5                | Explain the importance of energy balance   |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>NUTRITION IN HEALTH</b>  |
| <b>Code</b>         | <b>18NDU06</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Discuss the development and physiological changes taking place in the human body   |
| CO-2                | Recognize the special physiological demands at various levels of physical activity and the need for nutritional management |
| CO-3                | Interpret and apply nutrition concepts to evaluate and improve the nutritional health of the populations                   |
| CO-4                | Determine and translate nutrient needs into menus based on socio economic and cultural conditions                          |

|      |   |
|------|---|
| CO-5 | Estimate the adequacy of nutrients in the planned diets to maintain health. |
|------|---|

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>NUTRITION IN HEALTH PRACTICALS</b>  |
| <b>Code</b>         | <b>18NDU07</b>  |
|                     | <b>On completion of the course, students would be able to</b>                                       |
| CO-1                | Plan and prepare nutritious meals with locally available foods                                      |
| CO-2                | Choose foods from different food groups to achieve nutritional balance at the lowest possible cost. |
| CO-3                | Compare food needs of individuals at different stages of life cycle                                 |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>HUMAN PHYSIOLOGY</b>   |
| <b>Code</b>         | <b>18NDU10</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Recognize the anatomical structures and explain the functions of body systems                              |
| CO-2                | Explain the inter – relationship within and between anatomical and physiological systems of the human body |
| CO-3                | Apply the knowledge gained through laboratory procedures in their field of work.                           |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>FOOD PROCESSING</b>                                    |
| <b>Code</b>         | <b>18NDU11</b>   |
|                     | <b>On completion of the course, students would be able to</b>      |
| CO-1                | gain knowledge about processing of different commodities           |
| CO-2                | know to prepare different breakfast cereals                        |
| CO-3                | value the by-products of cereals in food formulations              |
| CO-4                | be familiar with significance of food fortification and enrichment |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>MEDICAL NUTRITION THERAPY</b>   |
| <b>Code</b>         | <b>18NDU13</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Educate the public on food choices that will optimize health and prevent diseases   |
| CO-2                | Acquire knowledge and skills to contribute to the treatment of patients as part of the health care team   |
| CO-3                | Take up the following responsibilities:<br>1) RD in hospitals<br>2) Freelance dietitians<br>3) Research in Dietetics<br>4) Fitness experts in fitness centers<br>Entrepreneurs in preparation of therapeutic diets and similar fields |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>MEDICAL NUTRITION THERAPY PRACTICAL</b>  |
| <b>Code</b>         | <b>18NDU14</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Plan diet for various diseases keeping in mind the foods to be included and avoided in specific conditions |
| CO-2                | Calculate of Nutrients for the planned diet using food composition table and                               |
| CO-3                | Diet plan and calculations of nutritional value using food exchange lists                                  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>BASIC COMPUTER SCIENCE PRACTICAL</b>                                    |
| <b>Code</b>         | <b>18NDU15</b>  |
|                     | <b>On completion of the course, students would be able to</b>                       |
| CO-1                | able to apply the knowledge gained on computer science in whatever field they enter |
| CO-2                | enrich their presentation skills  |
| CO-3                | build an appropriate resume for future endeavours                                   |
| CO-4                | enhance their entrepreneurial inquisitiveness through webpage / blog                |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>NUTRITION PRACTICALS</b>                              |
| <b>Code</b>         | <b>18NDU16</b>  |
|                     | <b>On completion of the course, students would be able to</b>     |
| CO-1                | Quantitatively estimate the different types of nutrients in foods |
| CO-2                | Assess the quality of foods                                       |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>BIOCHEMISTRY</b>  |
| <b>Code</b>         | <b>18NDU17</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | understand the structures, functions, metabolic pathways and the regulation of biochemical processes of nutrients |
| CO-2                | describe the synthesis of proteins, lipids and nucleic acids and their regulation mechanism                       |
| CO-3                | gain the basic knowledge about enzymes and their role in metabolism of nutrients.                                 |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>FOOD MICROBIOLOGY</b>  |
| <b>Code</b>         | <b>18NDU18</b>   |
|                     | <b>On completion of the course, students would be able to</b>                                |
| CO-1                | Demonstrate knowledge of microorganisms associated with spoilage of different types of foods |
| CO-2                | Apply the theories and principles of food microbiology in food preservation techniques       |
| CO-3                | Design a basic microbiological quality control programme for food production                 |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>FOOD PRESERVATION</b>   |
| <b>Code</b>         | <b>18NDU19</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Describe the principles of food preservation & determine the suitable processing conditions for each type of food                                     |
| CO-2                | Recognize and analyze spoilage symptoms in fresh, minimally processed and processed foods and interrelate with the causes of food spoilage            |
| CO-3                | Identify the requirements for safe food preparation & describe the personal hygiene practices for food handlers with suitable preservation techniques |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>INSTITUTIONAL FOOD MANAGEMENT</b>   |
| <b>Code</b>         | <b>18NDU20</b>  |
|                     | <b>On completion of the course, students would be able to</b>                             |
| CO-1                | Develop a knowledge base in key areas of Institutional Food administration                |
| CO-2                | Apply principles of menu planning and plan one institutional menu                         |
| CO-3                | Explain the procedures involved in delivering quality food services                       |
| CO-4                | Demonstrate appropriate sanitation and safety principles in an institutional food service |
|                     |   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>FOOD SERVICE MANAGEMENT PRACTICALS AND INTERNSHIP</b>                         |
| <b>Code</b>         | <b>18NDU21</b>  |
|                     | <b>On completion of the course, students would be able to</b>                             |
| CO-1                | Develop a knowledge base in key areas of institutional food administration                |
| CO-2                | Apply principles of menu planning and plan one institutional menu                         |
| CO-3                | Explain the procedures involved in delivering quality food services                       |
| CO-4                | Demonstrate appropriate sanitation and safety principles in an institutional food service |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>FOOD PROCESSING PRACTICAL</b>   |
| <b>Code</b>         | <b>18NDU22</b>  |
|                     | <b>On completion of the course, students would be able to</b>                         |
| CO-1                | Confidently apply the knowledge and skills if placed in food and food based companies |
| CO-2                | Start their own food industry   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Discipline Specific Elective Course (Core Elective)<br/>PERFORMANCE NUTRITION</b>            |
| <b>Code</b>         | <b>18NDU23(A)</b>   |
|                     | <b>On completion of the course, students would be able to</b>                                   |
| CO-1                | Learn to plan diets to meet nutrient needs for different types and levels of physical activity; |
| CO-2                | Gain a good knowledge of dietary and nutrient recommendations for different levels of exercise  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Discipline Specific Elective Course (Core Elective)<br/>BAKERY AND CONFECTIONARY</b>   |
| <b>Code</b>         | <b>18NDU23(B)</b>   |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Perform to prepare different types of bread, cakes, pastries, biscuits and various icing techniques                               |
| CO-2                | Apply the hygienic practices and cleanliness of bakery unit including equipments and utensils                                     |
| CO-3                | Identify the ingredients and kneading practices to enhance the bakery products quality and causes of spoilage in bakery products. |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>FOOD SERVICE MANAGEMENT</b>                                  |
| <b>Code</b>         | <b>18NDU24 / 20NDU25</b>   |
|                     | <b>On completion of the course, students would be able to</b>            |
| CO-1                | Describe the classical functions of food Service Management              |
| CO-2                | Perform a daily food cost analysis for any food service                  |
| CO-3                | Assess leadership and human relation skills within food service industry |
| CO-4                | Communicate appropriately with clients, staff and management             |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>FOOD COST CONTROL AND ACCOUNTANCY</b>                           |
| <b>Code</b>         | <b>18NDU25 / 20NDU26</b>  |
|                     | <b>On completion of the course, students would be able to</b>               |
| CO-1                | Assist in preparing budget for a food service establishment                 |
| CO-2                | Aids in preparing a cost reduction plan for a food business                 |
| CO-3                | Guides to translate business activities into a financial report             |
| CO-4                | Helps to comprehend how financial reports are prepared and used in business |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>COMMUNITY NUTRITION</b>   |
| <b>Code</b>         | <b>18NDU26 / 20NDU27</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Assess the nutritional status and identify the factors affecting nutritional status in a community.                                     |
| CO-2                | Plan, implement and evaluate nutritional intervention programmes. Bring awareness to the community on existing intervention programmes. |
| CO-3                | Understand the importance of community nutrition and role of community nutritionist.  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>FOOD SAFETY AND QUALITY CONTROL</b>               |
| <b>Code</b>         | <b>18NDU27 / 20NDU28</b>                                      |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Practice quality assurance in food production                 |
| CO-2                | Able to know the difference of FQ & FS terms                  |
| CO-3                | Evaluate food safety problems                                 |

**d**

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>FOOD PACKAGING</b>   |
| <b>Code</b>         | <b>18NDU28 / 20NDU29</b>   |
|                     | <b>On completion of the course, students would be able to</b>                                      |
| CO-1                | Gain the knowledge on properties of various packaging materials suitable for foods & food products |
| CO-2                | Be aware of the compatibility of various packaging materials for specified food items              |
| CO-3                | Choose ecofriendly packaging materials to conserve the environment                                 |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Discipline Specific Elective<br/>FOOD PRODUCT DEVELOPMENT</b>                 |
| <b>Code</b>         | <b>18NDU29(A) / 20NDU30A</b>   |
|                     | <b>On completion of the course, students would be able to</b>                    |
| CO-1                | Develop a knowledge base about inter-relationship between nutrients and behavior |
| CO-2                | Understand the consequences of behavior on health                                |
| CO-3                | Know the means of modifying food behavior  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Discipline Specific elective<br/>NUTRITION AND BEHAVIOUR</b>                   |
| <b>Code</b>         | <b>18NDU29B / 20NDU30B</b>  |
|                     | <b>On completion of the course, students would be able to</b>                     |
| CO-1                | Develop a knowledge base about inter-relationship between nutrients and behavior. |
| CO-2                | Understand the consequences of behavior on health                                 |
| CO-3                | Know the means of modifying food behaviour  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>BIOCHEMISTRY PRACTICAL</b>  |
| <b>Code</b>         | <b>18NDU30 / 20NDU31</b>  |
|                     | <b>On completion of the course, students would be able to</b>                       |
| CO-1                | Quantitatively analyse the biochemical parameters in blood, serum and urine samples |
| CO-2                | Qualitatively identify the presence of different sugars                             |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Generic Elective<br/>HEALTH AND FITNESS (EDC)</b>                                    |
| <b>Code</b>         | <b>18GECNDU</b>   |
|                     | <b>On completion of the course, students would be able to</b>                           |
| CO-1                | Gain knowledge on fundamentals of Foods & Nutrition                                     |
| CO-2                | Apply the knowledge in following healthy lifestyle in order to lead a disease free life |



Since 1947

# PSG College of Arts & Science Coimbatore – 641 014

## Programme: BSc Biochemistry

### Programme Outcomes

|      | <b>On completion of the programme, the student will be able to</b>  |
|------|---|
| PO-1 | Become knowledgeable in the subject of Biochemistry and apply the principles of the same to the needs of the Employer / Institution/own Business or Enterprise. |
| PO-2 | Gain Analytical skills in the field/area of Biochemistry.   |
| PO-3 | Understand and appreciate professional ethics, community living and Nation Building initiatives.  |
| PO-4 | Gain knowledge on the mechanism of action of biomolecules, enzymes and their clinical importance.   |
| PO-5 | Understand the metabolic activities of a cell.  |
| PO-6 | Students will comprehend the knowledge in the biochemical, biophysical, biotechnological and biostatistical areas.  |
| PO-7 | Integrating the subjects of Clinical Biochemistry, Immunology and Drug Biochemistry to clarify knowledge on health and disease.                                 |
| PO-8 | Able to understand and interpret various nuances of bioinformatics tools.   |

### Programme Specific Outcomes

|       | <b>On completion of the programme, the student will be able</b>   |
|-------|---|
| PSO-1 | Apply the knowledge of Biochemistry in the domain of Medicines and healthcare industry.   |
| PSO-2 | Solve the complex problems in the field of Biochemistry with an understanding of the societal, legal and cultural impacts of the solution.                    |
| PSO-3 | Gain vertical mobility in career which will make them competent to compete in the National/International qualifying exams and to acquaint practical knowledge |

|       |   |
|-------|---|
|       | and skills in Modern biochemical techniques.          |
| PSO-4 | Form a part of member in a team with right attitudes. |

|                        |
|------------------------|
| <b>Course Outcomes</b> |
|------------------------|

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>SUBCELLULAR BIOCHEMISTRY</b>   |
| <b>Code</b>         | <b>18BCV01/18BCU01</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Demonstrate basic knowledge in the structure and activities of plant and animal cells.   |
| CO-2                | Acquire first-hand experience in working on projects at individual level and exposure to industrial and research environment related to cell compartments, starting from the nucleus to the cell membrane. |
| CO-3                | Analyze and interpret the types of interactions between cells.   |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>STRUCTURAL BIOCHEMISTRY</b>  |
| <b>Code</b>         | <b>18BCV02/18BCU02</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Appraise the significance of the complex Biomolecules like Carbohydrates, Proteins, Lipids, Minerals and Nucleic acids |
| CO-2                | Compile the basic concepts in Bonding and Interaction and also in reagent preparation.                                 |
| CO-3                | Summarize the fundamental ideas to understand the basics in bioinformatics   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>APPLICATIONS OF COMPUTER SCIENCE IN BIOCHEMISTRY</b>  |
| <b>Code</b>         | <b>18BCV03/18BCU03</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Apply fundamental principles and methods of Computer Science to a wide range of applications.   |
| CO-2                | Develop proficiency in the practice of computing by exhibiting the skills & concepts for basic usage of Computers & Internet.             |
| CO-3                | Demonstrate the usage of MS office programs to create personal, academic and business documents following current professional standards. |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>MAJOR PRACTICAL - I</b>  |
| <b>Code</b>         | <b>18BCV04/18BCU04</b>   |
|                     | <b>On completion of the course, students would be able to</b>                |
| CO-1                | Analyse and interpret the presence of Amino acids, Carbohydrates and lipids. |
| CO-2                | Examine the biochemical changes of biomolecules while performing the test.   |
| CO-3                | Develop the practical skills while viewing the slides under microscope.      |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>COMPUTER PRACTICALS</b>  |
| <b>Code</b>         | <b>18BCU05</b>   |
|                     | <b>On completion of the course, students would be able to</b>                      |
| CO-1                | Manipulate documents using functions such as find and replace; cut, copy, replace. |
| CO-2                | Start Microsoft Office applications and work with the Microsoft Office interface.  |
| CO-3                | Undergo Basic Programming.   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>MICROBIOLOGY</b>  |
| <b>Code</b>         | <b>18BCV06/18BCU06</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Emphasize the microscope principle and its application, nature of microorganisms, different types of diseases caused by the microorganisms. |
| CO-2                | Deal with broad discipline in microbial genetics and soil microbiology.   |
| CO-3                | Acquaint with the basic concepts in the field of microbiology for the students.   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>ENZYMOLGY</b>   |
| <b>Code</b>         | <b>18BCV07 /18BCU07</b>   |
|                     | <b>On completion of the course, students would be able to</b>                                     |
| CO-1                | Learn and understand the factors contributing to the catalytic efficiency of enzymes.             |
| CO-2                | Gain knowledge on the applications of enzymes in diagnosis, therapy, food and textile industries. |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>MOLECULAR BIOLOGY</b>   |
| <b>Code</b>         | <b>18BCV09/18BCU09</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Identify the nucleotide that pairs with another nucleotide, and identify the DNA nucleotide that it replaces.                   |
| CO-2                | Predict how an addition or deletion mutation in the promoter sequence of a gene would impact future transcription of that gene. |
| CO-3                | Relate a mutation to the anticodon sequence of a tRNA that alters its function.   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>BIOCHEMICAL TECHNIQUES</b>  |
| <b>Code</b>         | <b>18BCV010 /18BCU010</b>   |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Understand the principles of different techniques used in Biochemistry                                      |
| CO-2                | Learn the principles and applications of advanced and state of the art techniques employed in Biochemistry. |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>MAJOR PRACTICAL-II</b>                                  |
| <b>Code</b>         | <b>18BCV012 /18BCU012</b>   |
|                     | <b>On completion of the course, students would be able to</b>       |
| CO-1                | Understand the techniques of biomolecule quantitation by titrimetry |
| CO-2                | Learn the principles of colorimetry and its applications            |
| CO-3                | Understand the action of enzymes from different biological sources  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>BASICS OF IMMUNOLOGY</b>  |
| <b>Code</b>         | <b>18BCV13 /18BCU13</b>   |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Attain an overview of the immune system and its performance during health and disease conditions.               |
| CO-2                | Contrast the different types of immune responses.   |
| CO-3                | Perceive knowledge about the different technologies available to monitor the perspectives of the immune system. |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>RECOMBINANT DNA TECHNOLOGY</b>  |
| <b>Code</b>         | <b>18BCV14 /18BCU14</b>   |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Describe the events involved in generation of rDNA, cDNA, expression vectors and choice of host       |
| CO-2                | Understand the molecular techniques   |
| CO-3                | Discuss protein engineering, mutagenesis based strategies for generation of rDNA with modified probes |
| CO-4                | Asses the realized and/or potential benefits & risk associated with molecular biotech                 |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>NANOBIOLOGY</b>   |
| <b>Code</b>         | <b>18BCV18 /18BCU18</b>   |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Analyze the current technology and where the field of biology is moving in the future.                |
| CO-2                | Exhibit concepts and discoveries that are emerging from using nanotechnology in the field of Biology. |
| CO-3                | Demonstrate the understanding of length scales concepts, nanostructures and nanotechnology.           |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>TISSUE CULTURE AND BIOTECHNOLOGY</b>   |
| <b>Code</b>         | <b>18BCV19 /18BCU19</b>  |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Acquaint with how to use different sources of tissues.   |
| CO-2                | Correlate between different biological samples and show the importance of different media in tissue culture. |
| CO-3                | Handle different sources for tissue culture.   |
| CO-4                | Apply the concept and applications of monoclonal antibody technology in industrial preparation.              |
| CO-5                | Discern the general principles of generating transgenic plants, animals and microbes.                        |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>INTERMEDIARY METABOLISM</b>                                   |
| <b>Code</b>         | <b>18BCV20 /18BCU20</b>   |
|                     | <b>On completion of the course, students would be able to</b>             |
| CO-1                | Sensitize the significance of metabolic pathways in the mammalian system. |
| CO-2                | Assess the role of metabolic machinery in the living system.              |
| CO-3                | Maintain proper diet pattern and health to sustain the life.              |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>COMPUTATIONAL TECHNIQUES IN BIOINFORMATICS</b>   |
| <b>Code</b>         | <b>18BCV21/18BCU21</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Understand the internet components, basics of bioinformatics, and databases and proficient enough to connect to them online. |
| CO-2                | Check various sequence comparison and interpret their phylogenetic evolutions.   |
| CO-3                | Attribute structural biochemistry of Proteins.   |
| CO-4                | Use computers in handling biological information   |
| CO-5                | Prepare for the higher studies in Bioinformatics and computational biology or to seek employment in Bioinformatics industry. |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>MAJOR PRACTICAL - III</b>                         |
| <b>Code</b>         | <b>18BCV22 /18BCU22</b>                                       |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Prepare glassware for tissue culture                          |
| CO-2                | Produce a tissue culture explants / innoculum                 |
| CO-3                | Generate tissue culture based plants                          |
| CO-4                | Handle and immunize small lab animals                         |
| CO-5                | Practice immunoassays and count cells                         |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>MAJOR PRACTICAL – IV<br/>BIOINFORMATICS</b>       |
| <b>Code</b>         | <b>18BCV23 /18BCU23</b>                                       |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Retrieve Nucleic acid and protein sequences                   |
| CO-2                | Visualize the protein tertiary structures                     |
| CO-3                | Carry out gene analysis                                       |
| CO-4                | Design a primer   |
| CO-5                | Construct a phylogenetic tree                                 |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Discipline Specific Elective Course -I<br/>PHYSIOLOGY AND ENDOCRINOLOGY</b> |
| <b>Code</b>         | <b>18BCV24A /18BCU24A</b>  |
|                     | <b>On completion of the course, students would be able to</b>                  |
| CO-1                | Explain the role of body systems and mechanism in maintaining homeostasis      |
| CO-2                | Describe the basic structure and function of nervous system                    |
| CO-3                | Analyze and interpret performance of the organs                                |
| CO-4                | Evaluate the hormone disorders   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Discipline Specific Elective Course - I<br/>ENVIRONMENTAL BIOCHEMISTRY AND BEST PRACTICES</b>      |
| <b>Code</b>         | <b>18BCV24B /18BCU24B</b>   |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Gain awareness on various harmful effects of environmental pollution.                                 |
| CO-2                | Learn about the best practices that can be implemented to alleviate the harmful effects of pollution. |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>PLANT BIOCHEMISTRY</b>  |
| <b>Code</b>         | <b>18BCV25 /18BCU25</b>   |
|                     | <b>On completion of the course, students would be able to</b>                                     |
| CO-1                | Correlate the biochemistry of photosynthetic process and its relation to man and its environment. |
| CO-2                | Interpret the biochemistry of plant growth and development.                                       |
| CO-3                | Analyze the important of plant hormones and its physiological functions.                          |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>CLINICAL BIOCHEMISTRY</b>   |
| <b>Code</b>         | <b>18BCV26/18BCU26</b>  |
|                     | <b>On completion of the course, students would be able to</b>                                       |
| CO-1                | Understanding of the normal and abnormal biochemical parameters in Carbohydrate metabolic disorders |
| CO-2                | Validation of various clinical conditions relating to human metabolic disorders                     |
| CO-3                | Aids in acquiring of clinical disorders in protein and nucleic acid metabolism                      |
| CO-4                | Knowing the screening methodologies involved in hormonal assays and the pathologic conditions.      |
| CO-5                | Adequate information about the biochemical basis of disease processes.                              |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>CELL – A MOLECULAR APPROACH</b>                              |
| <b>Code</b>         | <b>18BCV27B/18BCU27B</b>   |
|                     | <b>On completion of the course, students would be able to</b>            |
| CO-1                | Explain the various receptors of cell signaling and its pathway.         |
| CO-2                | Resolve various stages of cancer and the types                           |
| CO-3                | Understand the applications of various molecular diagnostics techniques. |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>MAJOR PRACTICAL - V</b>   |
| <b>Code</b>         | <b>18BCV28/18BCU28</b>  |
|                     | <b>On completion of the course, students would be able to</b>                               |
| CO-1                | Evaluate the practical skills of the students   |
| CO-2                | Analyses the deficiency of biomolecules in blood and urine through interpreting the results |
| CO-3                | Explains the chemistry involved in enzyme action  |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Discipline Specific Electric Course - II<br/>PHARMACOKINETICS AND CLINICAL TRAILS</b> |
| <b>Code</b>         | <b>18BCV29A/18BCU29A</b>   |
|                     | <b>On completion of the course, students would be able to</b>                            |
| CO-1                | Summarize the concept of drug action in the mammalian system.                            |
| CO-2                | Evaluate the potential of herbal formulations in treatment regimen.                      |
| CO-3                | Extend the basic knowledge to allied areas of medical sciences.                          |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Discipline Specific Electric Course - II<br/>NEUROCHEMISTRY</b>                    |
| <b>Code</b>         | <b>18BCV29B /18BCU29B</b>   |
|                     | <b>On completion of the course, students would be able to</b>                         |
| CO-1                | Gain knowledge on various neurological disorders                                      |
| CO-2                | Understand the anatomy and physiology of the central nervous system                   |
| CO-3                | Gain knowledge on the drugs and other common medicines that affect the nervous system |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>BIOCHEMISTRY – IDC<br/>(FOR ZOOLOGY)</b>                              |
| <b>Code</b>         | <b>18ZOU26</b>   |
|                     | <b>On completion of the course, students would be able to</b>            |
| CO-1                | Understand the structure of important Biomolecules.                      |
| CO-2                | Gain knowledge about energy synthesizing pathway involving biomolecules. |
| CO-3                | Enhance the interest in various separation techniques.                   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>BIOCHEMISTRY PRACTICALS-IDC<br/>(FOR ZOOLOGY)</b>                        |
| <b>Code</b>         | <b>18ZOU29</b>  |
|                     | <b>On completion of the course, students would be able to</b>               |
| CO-1                | Interpret the presence of amino acids and carbohydrates in the given sample |
| CO-2                | Examine the chemical changes of biomolecules while performing the test.     |
| CO-3                | Estimate the amount of protein and vitamin C in the sample                  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>FUNDAMENTALS OF BIOCHEMISTRY – IDC<br/>(FOR MICROBIOLOGY)</b>  |
| <b>Code</b>         | <b>18MBU07</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Acquired strong knowledge in basics of biochemistry.  |
| CO-2                | Understand structure and chemical properties of biomolecules  |
| CO-3                | Understand on kinetics and clinical importance of enzymes   |
| CO-4                | Know the screening methodologies involved in hormonal assays and the pathologic conditions.                             |
| CO-5                | Acquire adequate information to apply the knowledge of structure and chemistry of biomolecules in microbiology courses. |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>BIOCHEMISTRY PRACTICALS<br/>(FOR MICROBIOLOGY)</b>                                    |
| <b>Code</b>         | <b>18MBU09</b>   |
|                     | <b>On completion of the course, students would be able to</b>                            |
| CO-1                | Enabling of qualitative analysis and finding unknown carbohydrate and amino acids        |
| CO-2                | Understanding the titrimetric and colorimetric methods in quantification of biomolecules |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>CHEMISTRY OF BIOMOLECULES – IDC</b>                              |
| <b>Code</b>         | <b>18BTU03</b>  |
|                     | <b>On completion of the course, students would be able to</b>       |
| CO-1                | Imbibe the molecular logic of life                                  |
| CO-2                | Possess a pervasive knowledge on the basic concepts in biochemistry |
| CO-3                | Inculcate the importance of biochemical reactions.                  |
| CO-4                | Implement the concepts for research purpose                         |
| CO-5                | Enhance their skills for a rewarding career                         |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>BIOCHEMISTRY PRACTICALS – IDC</b>                              |
| <b>Code</b>         | <b>18BTU05</b>  |
|                     | <b>On completion of the course, students would be able to</b>     |
| CO-1                | Possess knowledge on the basic concepts in practical biochemistry |
| CO-2                | Practically implement the concepts for research                   |
| CO-3                | Enhance their skills for a rewarding career                       |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>GENERIC ELECTIVE COURSE - EDC<br/>HUMAN HEALTHCARE</b>     |
| <b>Code</b>         | <b>18GECBCU</b>   |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Rationale for choice of tests and treatments in diseases.     |
| CO-2                | Aware of human anatomy, physiology, and scientific context.   |
| CO-3                | Distinguish the epidemiology of major diseases.               |



Since 1947

# PSG College of Arts & Science Coimbatore – 641 014

## Programme: BSc Computer Science

### Programme Outcomes

|      | <b>On completion of the programme, the student will be able to</b>  |
|------|---|
| PO-1 | Become knowledgeable in the subject of computer science and apply the principles of the same to the needs of the Employer / Institution / own business or Enterprise  |
| PO-2 | Gain Analytical skills in the field/area of Computer Science  |
| PO-3 | Understand and appreciate professional ethics, community living and Nation building initiatives.  |
| PO-4 | Analyze and compare alternative solutions to computing problems.  |
| PO-5 | An ability to apply mathematical foundations, algorithmic principles, and computer science theory in the modeling and design of computer-based systems in a way that demonstrates comprehension of the tradeoffs involved in design choices |
| PO-6 | An ability to apply design and development principles in the construction of Software applications of varying complexity  |
| PO-7 | Design and conduct experiments, collect data, analyze and interpret the results to investigate complex problems or program-specific research areas  |
| PO-8 | An ability to use current techniques, skills, and tools necessary for computing practice  |

### Programme Specific Outcomes

|       | <b>On completion of the programme, the student will be able</b>  |
|-------|--|
| PSO-1 | Apply the knowledge of Computer Science in the domain of Research, Robotics.   |
| PSO-2 | Solve the complex problems in the field of Computer Science with an understanding of the societal, legal and cultural impacts of the solution  |
| PSO-3 | Foundation of mathematical concepts and ability to apply mathematical methodologies to solve computation task, model real world problem using appropriate data structure and suitable algorithm. |
| PSO-4 | Form a part of member in a team with right attitudes.  |

### Course Outcomes

| <b>Course Title</b> | <b>Core<br/>PROBLEM SOLVING &amp; PROGRAMMING IN C</b>   |
|---------------------|--|
| <b>Code</b>         | <b>18CMU01 / 19CMU01</b>   |
|                     | <b>On completion of the course, students would be able to</b>                                  |
| CO-1                | Develop efficient algorithms for solving a problem   |
| CO-2                | Use the suitable data types and operators to manipulate data                                   |
| CO-3                | Use the various constructs of a programming language viz. conditional, iteration and recursion |
| CO-4                | Apply the code reusability with the help of user defined functions                             |
| CO-5                | Handle File in “C”   |

| <b>Course Title</b> | <b>FUNDAMENTALS OF DIGITAL COMPUTERS</b>  |
|---------------------|---|
| <b>Code</b>         | <b>18CMU02 / 19CMU02</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Able to understand the Number system & Boolean Algebra  |
| CO-2                | The ability to understand, analyze and design various combinational and sequential circuits   |
| CO-3                | Able to assemble a simple computer with hardware design including data format, instruction format, instruction set, addressing modes, bus structure |
| CO-4                | Ability to distinguish performance tradeoff between different memory units and instruction sets   |
| CO-5                | Able to understand types of memories in digital systems   |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>LAB I – C PROGRAMMING LAB</b>  |
| <b>Code</b>         | <b>18CMU04 / 19CMU04</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Write the C code for the developed algorithm   |
| CO-2                | Develop logical abilities using C language   |
| CO-3                | Write programs that perform operations using derived data types  |
| CO-4                | Able to write programs with pointers and arrays, perform pointer arithmetic, and use the pre-processor |
| CO-5                | Able to develop programs for real time applications  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>LAB-II- MS EXCEL &amp; SYSTEM CONFIGURATION LAB</b>                                   |
| <b>Code</b>         | <b>18CMU05 / 19CMU05</b>  |
|                     | <b>On completion of the course, students would be able to</b>                                     |
| CO-1                | Indicate the names and functions of the Excel interface components                                |
| CO-2                | Enter and edit data, format data and cells  |
| CO-3                | Construct formulas, including the use of built-in functions, and relative and absolute references |
| CO-4                | Create and modify charts  |
| CO-5                | Preview and print worksheets  |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>PROGRAMMING IN C++</b>   |
| <b>Code</b>         | <b>18CMU06 / 19CMU06</b>   |
|                     | <b>On completion of the course, students would be able to</b>              |
| CO-1                | Solving the given problem using the syntactical structures of C++ Language |
| CO-2                | To implement copy constructors and class member functions                  |
| CO-3                | To implement how containment and inheritance promote code reuse in C++     |
| CO-4                | To design and implement generic classes with C++ templates                 |
| CO-5                | To use exception handling in C++ programs                                  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>DATA STRUCTURES</b>   |
| <b>Code</b>         | <b>18CMU07 / 19CMU07</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Apply the knowledge of data structure concepts and the various algorithms while designing and developing software |
| CO-2                | Analyze the complexity and correctness of the new algorithms.   |
| CO-3                | Choose the appropriate data structure and algorithm design method for a specified application                     |
| CO-4                | Apply and implement learned algorithm design techniques and data structures to solve problems                     |
| CO-5                | Apply algorithmic problems including Tree traversals  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>LAB III ( C++ PROGRAMMING LAB)</b>                              |
| <b>Code</b>         | <b>18CMU09 / 19CMU09</b>  |
|                     | <b>On completion of the course, students would be able to</b>               |
| CO-1                | Implement the process of writing, compiling and executing programs in C++   |
| CO-2                | Implement the object oriented concepts in developing applications using C++ |
| CO-3                | Understand and use templates, files and advanced features in C++            |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>LAB IV (DATA STRUCTURES LAB)</b>                       |
| <b>Code</b>         | <b>18CMU10 / 19CMU10</b>   |
|                     | <b>On completion of the course, students would be able to</b>      |
| CO-1                | Illustrate the behavior of data structures                         |
| CO-2                | Analyze and determine the appropriate data structure for a problem |
| CO-3                | Apply the necessary algorithms to solve the problems               |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>PROGRAMMING IN JAVA</b>  |
| <b>Code</b>         | <b>19CMU11</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Write, compile and execute Java programs that may include basic data types and control flow constructs               |
| CO-2                | Write Java programs that include GUIs and event driven programming   |
| CO-3                | Use the Java programming language for various programming technologies   |
| CO-4                | Propose the use of certain technologies by implementing them in Java programming language to solve the given problem |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>RELATIONAL DATABASE MANAGEMENT SYSTEMS</b>                       |
| <b>Code</b>         | <b>19CMU12</b>   |
|                     | <b>On completion of the course, students would be able to</b>                |
| CO-1                | Recognize the database systems concept. Implement data manipulation commands |
| CO-2                | Recognize the relational concepts and constraints                            |
| CO-3                | Implement data manipulation commands   |
| CO-4                | Gain knowledge about procedures and triggers in PL/SQL                       |
| CO-5                | Conceptualize the components involved in object oriented databases           |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>OPERATING SYSTEMS</b>                             |
| <b>Code</b>         | <b>19CMU13</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Clear understanding of Operating System structure             |
| CO-2                | Understand and solving of Deadlocks in OS                     |
| CO-3                | Manage memory and virtual memory                              |
| CO-4                | Familiar with file systems and mass-storage structure         |
| CO-5                | Understand clearly the I/O Systems concepts of OS             |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>THEORY OF COMPUTATION</b>   |
| <b>Code</b>         | <b>18CMU14</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Model, compare and analyse different computational models using combinatorial methods   |
| CO-2                | Apply rigorously formal mathematical methods to prove properties of languages, grammars and automata                                    |
| CO-3                | Construct algorithms for different problems and argue formally about correctness on different restricted machine models of computation. |
| CO-4                | Identify limitations of some computational models and possible methods of proving them  |
| CO-5                | Have an overview of how the theoretical study in this course is applicable to and engineering application like designing the compilers  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>LAB – V(JAVA PROGRAMMING LAB)</b>   |
| <b>Code</b>         | <b>19CMU16</b>  |
|                     | <b>On completion of the course, students would be able to</b>                                   |
| CO-1                | Understand and Apply Object oriented features and Java concepts                                 |
| CO-2                | Write diversified solutions using Java language   |
| CO-3                | Implement programs with arrays, classes' pointers, functions, file handling and string handling |
| CO-4                | Apply the concept of applet and implement exception handling                                    |
| CO-5                | Access data from a database with java program   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>LAB VI ( RDBMS LAB)</b>                           |
| <b>Code</b>         | <b>19CMU17</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Implement programs using object oriented database systems     |
| CO-2                | Construct programs in PL/SQL with real time applications      |
| CO-3                | Gain knowledge about PL/SQL commands                          |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>.NET FRAMEWORK</b>                                |
| <b>Code</b>         | <b>19CMU18</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Design and develop GUI interface program                      |
| CO-2                | Develops windows and web applications                         |
| CO-3                | Create controls with data validation                          |
| CO-4                | Identify the errors and analyze it                            |
| CO-5                | Implement the concepts of delegates and events                |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>BIOINFORMATICS &amp; BIOPERL</b>   |
| <b>Code</b>         | <b>19CMU19</b>   |
|                     | <b>On completion of the course, students would be able to</b>                              |
| CO-1                | Have Knowledge on the development of Bioinformatics and its application                    |
| CO-2                | Understand the data stored in different biological databases and exploring the information |
| CO-3                | Have adequate knowledge on the advanced applications of Bioinformatics.                    |
| CO-4                | Analyze the patterns   |
| CO-5                | Gain the knowledge on handling patterns stored in files                                    |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>COMPUTER GRAPHICS</b>                                    |
| <b>Code</b>         | <b>19CMU20</b>   |
|                     | <b>On completion of the course, students would be able to</b>        |
| CO-1                | Describe the graphics systems  |
| CO-2                | Understand the concept of primitives                                 |
| CO-3                | Classify the two dimensional and three dimensional viewing concepts. |
| CO-4                | Realize the three dimensional concepts                               |
| CO-5                | Narrate the color concepts   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>MICROPROCESSOR</b>  |
| <b>Code</b>         | <b>19CMU21</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Describe the general architecture of microcomputer systems  |
| CO-2                | Understand the difference between 8085 and advanced microprocessor 8086   |
| CO-3                | Classify the instruction set of 8085 microprocessor and distinguish the use of different instructions and apply it in assembly language programming |
| CO-4                | Realize the programming & interfacing concepts with 8085 microprocessor   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>LAB – VII (NET PROGRAMMING LAB)</b>                 |
| <b>Code</b>         | <b>19CMU23</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Write a diversified algorithm for dot net programming languages |
| CO-2                | Develop applications using various controls in .net IDE         |
| CO-3                | Illustrate the applications with database connectivity          |
| CO-4                | Validate the applications with various controls                 |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>LAB – VIII (COMPUTER GRAPHICS &amp; DATA VISUALIZATION LAB)</b>   |
| <b>Code</b>         | <b>19CMU24</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Implement various algorithms to scan, convert the basic geometrical primitives, transformations, Area filling, clipping |
| CO-2                | List the basic concepts used in computer graphics   |
| CO-3                | Define the fundamentals of animation, virtual reality and its related technologies                                      |
| CO-4                | Create their own E- Content   |
| CO-5                | Analyze the data and to visualize the same  |

|               |  |
|---------------|--|
| <b>Course</b> |  |
|---------------|--|

|              |  |
|--------------|--|
| <b>Title</b> | <b>OPEN SOURCE PROGRAMMING</b>   |
| <b>Code</b>  | <b>19CMU25</b>   |
|              | <b>On completion of the course, students would be able to</b>          |
| CO-1         | Describe the Python language syntax for a variety of problems          |
| CO-2         | Write clear and effective python code                                  |
| CO-3         | Create applications using python programming                           |
| CO-4         | Interpret the concepts of Object-oriented programming in PHP           |
| CO-5         | Analyze and solve common Web application tasks by writing PHP programs |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>SOFTWARE ENGINEERING &amp; DESIGN</b>   |
| <b>Code</b>         | <b>19CMU26</b>   |
|                     | <b>On completion of the course, students would be able to</b>                            |
| CO-1                | Relate engineering design to produce solutions that meet specified needs                 |
| CO-2                | Design UML case models   |
| CO-3                | Explain the quality management & different types of metrics used in software development |
| CO-4                | Apply the process to be followed in the software development life-cycle models           |
| CO-5                | Explain the concepts of various software process methods                                 |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>COMPUTER NETWORKS</b>  |
| <b>Code</b>         | <b>19CMU27</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Visualize the different aspects of networks, protocols and network design models                                       |
| CO-2                | Identify the hacking methods and threats to National security  |
| CO-3                | Analyze and compare different LAN protocols  |
| CO-4                | Compare and select appropriate routing algorithms for a network  |
| CO-5                | Examine the important aspects and functions of network layer, transport layer and application layer in internetworking |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>DISCIPLINE SPECIFIC ELECTIVE COURSE -I<br/>ARTIFICIAL INTELLIGENCE</b>   |
| <b>Code</b>         | <b>19CMU28A</b>   |
|                     | <b>On completion of the course, students would be able to</b>               |
| CO-1                | Identify problems that are amenable to solution by AI methods               |
| CO-2                | Identify appropriate AI methods to solve a given problem                    |
| CO-3                | Formalize a given problem in the language/framework of different AI methods |
| CO-4                | Implement basic AI algorithms   |
| CO-5                | Formalize a sentence in First Order Logic                                   |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>DISCIPLINE SPECIFIC ELECTIVE COURSE -I<br/>PREDICTIVE ANALYTICS</b> |
| <b>Code</b>         | <b>19CMU28B</b>  |
|                     | <b>On completion of the course, students would be able to</b>          |
| CO-1                | Analyze the difference between predictive modeling with other models   |
| CO-2                | Represent data in various statistical formats                          |
| CO-3                | Identifying the methods for data cleaning                              |
| CO-4                | Analyze different Association rules and Item sets                      |
| CO-5                | Assess the predictive modeling and Linear Regression                   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>PRINCIPLES OF COMPILER DESIGN</b>                 |
| <b>Code</b>         | <b>19CMU29</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Understand the important levels of compilation                |
| CO-2                | Design a compiler for different languages or frameworks       |
| CO-3                | Develop the parsers and test the expertise of parsers design. |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>LAB-IX (OPEN SOURCE PROGRAMMING LAB)</b> |
| <b>Code</b>         | <b>19CMU30</b>                                       |

|      | <b>On completion of the course, students would be able to</b> |
|------|---|
| CO-1 | Explore the basis of Python                                   |
| CO-2 | Understand the concept of files                               |
| CO-3 | Execute program to implement OOPS concepts                    |
| CO-4 | Design the web pages using PHP and MySQL                      |

| <b>Course Title</b> | <b>Core</b>  |
|---------------------|--|
|                     | <b>LAB-X (NETWORK PROGRAMMING LAB)</b>                                       |
| <b>Code</b>         | <b>19CMU31</b>   |
|                     | <b>On completion of the course, students would be able to</b>                |
| CO-1                | Explore the basis of computer networks                                       |
| CO-2                | Understand the concept of socket programming                                 |
| CO-3                | Execute program to implement connection oriented and Connectionless protocol |
| CO-4                | Execute address resolution protocols   |
| CO-5                | Detect and correct errors that occur during transmission                     |

| <b>Course Title</b> | <b>Core</b>   |
|---------------------|---|
|                     | <b>MINOR PROJECT</b>  |
| <b>Code</b>         | <b>19CMU32</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Explore the real world applications   |
| CO-2                | Understand the concept of collecting, storing, fetching and processing of data based on the application/problem |
| CO-3                | Apply the knowledge in implementing the solution to the problem   |
| CO-4                | Showcase their individual technical skill set   |

| <b>Course Title</b> | <b>Core</b>             |
|---------------------|-------------------------|
|                     | <b>SOFTWARE TESTING</b> |
| <b>Code</b>         | <b>19CMU33</b>          |

|      | <b>On completion of the course, students would be able to</b>                                |
|------|--|
| CO-1 | Familiar in Software Development Life Cycle Models   |
| CO-2 | Understand the concept of white box, black box Testing and Integration Testing               |
| CO-3 | Understand the concept of System and Acceptance Testing, Performance Testing                 |
| CO-4 | Understand the concept of Regression Testing and Ad hoc Testing                              |
| CO-5 | Understand the concept of Test planning, Test Management and Test Process and Test Reporting |

| <b>Course Title</b> | <b>Core<br/>DATA SCIENCE WITH R PROGRAMMING</b>  |
|---------------------|--|
| <b>Code</b>         | <b>19CMU34</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Obtain, clean/process, and transform data  |
| CO-2                | Analyze and interpret data using an ethically responsible approach   |
| CO-3                | Use appropriate models of analysis, assess the quality of input, derive insight from results, and investigate potential issues |
| CO-4                | Formulate and use appropriate models of data analysis to solve hidden solutions to business-related challenges                 |
| CO-5                | Interpret data findings effectively to any audience, orally, visually, and in written formats                                  |

| <b>Course Title</b> | <b>Discipline Specific Elective Course-II<br/>CYBER FORENSICS</b>                  |
|---------------------|--|
| <b>Code</b>         | <b>19CMU35 A</b>   |
|                     | <b>On completion of the course, students would be able to</b>                      |
| CO-1                | Analyze various problems of Cyber Crime and apply techniques of computer forensics |
| CO-2                | Apply the proper forensics tools for investigation.                                |
| CO-3                | Evaluate and analyze the validation of forensics data                              |
| CO-4                | Gain Knowledge on Various Cyber laws in India                                      |
| CO-5                | Apply various Cyber Tools  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Discipline Specific Elective Course –II<br/>PARALLEL AND DISTRIBUTED COMPUTING</b> |
| <b>Code</b>         | <b>19CMU35B</b>   |
|                     | <b>On completion of the course, students would be able to</b>                         |
| CO-1                | Understand the parallel programming platform  |
| CO-2                | analyze the design of parallel algorithm  |
| CO-3                | Able to Understand System Models and Network Basics                                   |
| CO-4                | Able to understand Distributed Objects and web services                               |
| CO-5                | Be Familiar with Name Services and Distributed Transaction                            |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>MACHINE LEARNING</b>                              |
| <b>Code</b>         | <b>19CMU36</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Able to Understand the Basics of Machine learning             |
| CO-2                | Recognize the Multivariate methods                            |
| CO-3                | Implementing nonparametric methods & Linear Discrimination    |
| CO-4                | Familiarize with Bayesian Estimation & Hidden Markov Models   |
| CO-5                | Able to Analyze Machine learning experiments                  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>Lab-XI- SOFTWARE DESIGN &amp; TESTING LAB</b>     |
| <b>Code</b>         | <b>19CMU37</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Understand to create Use case diagram for software projects   |
| CO-2                | Understand to create class diagram for software projects      |
| CO-3                | Understand to create Interaction diagrams                     |
| CO-4                | Understand to create test case for the software projects      |
| CO-5                | Understand to create test case for the customer requirements  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>Lab-XII- DATA SCIENCE WITH R PROGRAMMING LAB</b>  |
| <b>Code</b>         | <b>19CMU38</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Understand to create Use case diagram for software projects   |
| CO-2                | Understand to create class diagram for software projects·     |
| CO-3                | Understand to create Interaction diagrams·                    |
| CO-4                | Understand to create test case for the software projects      |
| CO-5                | Understand to create test case for the customer requirements  |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>MAJOR PROJECT WORK</b>   |
| <b>Code</b>         | <b>19CMU39</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Explore the real time software applications  |
| CO-2                | Apply the knowledge of Gathering details, creating a Database, manipulating and processing the database based on the application/problem |
| CO-3                | Apply the knowledge in implementing the solution to the problem  |
| CO-4                | Demonstrate their individual technical and project management skill set  |
| CO-5                | Get the opportunity for employability  |



Since 1947

# PSG College of Arts & Science Coimbatore – 641 014

## Programme: BSc Electronics

### Programme Outcomes

|      | <b>On completion of the programme, the student will be able to</b>  |
|------|---|
| PO-1 | Bring about knowledge in the subject of Electronics and apply the principles of the same to the needs of the Employer/Institution/own Business or Enterprise. |
| PO-2 | Gain analytical skills in the field/area of Electronics   |
| PO-3 | Understand and appreciate professional ethics, community living and nation building initiatives   |
| PO-4 | Identify, formulate and solve problems in the area of Electronics and Communication Systems and Embedded Systems.   |
| PO-5 | Design and service the electronic equipments.   |
| PO-6 | Understand the professional and ethical responsibility.   |
| PO-7 | Get recognition in their own area of study.   |
| PO-8 | Use the techniques, skills and modern software tools necessary for practical upgradation.   |

### Programme Specific Outcomes

|       | <b>On completion of the programme, the student will be able</b> |
|-------|---|
| PSO-1 | apply the knowledge of Electronics in day to day requirements   |
| PSO-2 | design circuits of their own based on their learning            |
| PSO-3 | coordinate with industry for enhancing mutual development       |
| PSO-4 | work in a team with right attitudes                             |

### Course Outcomes

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>ELECTRIC CIRCUITS</b>                             |
| <b>Code</b>         | <b>18ELU01</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Solve any type of problems in linear circuits                 |
| CO-2                | Apply transient behavior in reactive circuits                 |
| CO-3                | Implement the various techniques in ac power measurement      |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>SEMICONDUCTOR DEVICES</b>   |
| <b>Code</b>         | <b>18ELU02</b>  |
|                     | <b>On completion of the course, students would be able to</b>                         |
| CO-1                | Understand the energy band theory   |
| CO-2                | Realize circuits using the devices learned  |
| CO-3                | Understand the devices capabilities and limitations on electronic circuit performance |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>ELECTRO MAGNETIC THEORY</b>                       |
| <b>Code</b>         | <b>18ELU04</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Understand and analyze electromagnetic waves                  |
| CO-2                | Get a clear idea about transmission lines                     |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>ELECTRIC MACHINES AND INSTRUMENTS</b>             |
| <b>Code</b>         | <b>18ELU05</b>  |
|                     | <b>On completion of the course, students would be able to</b> |

|      |   |
|------|---|
| CO-1 | Use motors for any applications                       |
| CO-2 | Understand the errors in Instruments while using them |
| CO-3 | Make use of electric Instruments in applications      |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>PRACTICAL - I - ELECTRIC CIRCUITS LAB</b>                        |
| <b>Code</b>         | <b>18ELU07</b>   |
|                     | <b>On completion of the course, students would be able to</b>                |
| CO-1                | Learn to use various equipments for measurements                             |
| CO-2                | Visualize the various applications of the theorems learned                   |
| CO-3                | Exercise precaution while handling electronic equipments for personal safety |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>PRACTICAL – II SEMICONDUCTOR DEVICES LAB</b>                         |
| <b>Code</b>         | <b>18ELU08</b>   |
|                     | <b>On completion of the course, students would be able to</b>                    |
| CO-1                | Differentiate the behavior of various semiconducting devices used in circuits    |
| CO-2                | Understand power control concepts in circuits using appropriate devices          |
| CO-3                | Develop skill in selecting components to form circuits of their own requirements |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>DIGITAL PRINCIPLES AND APPLICATIONS</b>            |
| <b>Code</b>         | <b>18ELU09</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Get a clear idea about designing registers and counters        |
| CO-2                | Have a knowledge about analog to digital and digital to analog |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>ELECTRONIC CIRCUITS</b>   |
| <b>Code</b>         | <b>18ELU10</b>  |
|                     | <b>On completion of the course, students would be able to</b>                     |
| CO-1                | Get a clear idea about designing efficient power supply for various circuits      |
| CO-2                | Apply the gained knowledge in electronic circuits to design circuits of their own |
| CO-3                | Use the gained knowledge in troubleshooting faulty electronic circuits            |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>CONTROL SYSTEM</b>  |
| <b>Code</b>         | <b>18ELU11</b>  |
|                     | <b>On completion of the course, students would be able to</b>                         |
| CO-1                | Understand the various theoretical methods to analyze the stability of control system |
| CO-2                | Analyze robotic movements   |
| CO-3                | Get an idea about the various case studies by applying control system                 |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>ELECTRONIC COMMUNICATION - I</b>                  |
| <b>Code</b>         | <b>18ELU14</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Understand all the modulation techniques                      |
| CO-2                | Design their own transmitter and receiver                     |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>DIGITAL AND LINEAR ICs</b>                             |
| <b>Code</b>         | <b>18ELU15</b>   |
|                     | <b>On completion of the course, students would be able to</b>      |
| CO-1                | Understand the concepts in IC fabrication                          |
| CO-2                | Use the analog and digital ICs in signal conversion                |
| CO-3                | Get a thorough idea about various types of timers and their design |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>8051 MICROCONTROLLER</b>                          |
| <b>Code</b>         | <b>18ELU16</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Gets a clear knowledge about embedded system                  |
| CO-2                | Use microcontroller in control systems applications           |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>PRACTICAL - IV – DIGITAL ELECTRONICS LAB</b>      |
| <b>Code</b>         | <b>18ELU18</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Design their own circuits                                     |
| CO-2                | Troubleshoot the faulty digital circuits                      |
| CO-3                | Apply timer circuits in embedded system                       |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>PRACTICAL – V ELECTRONIC CIRCUITS LAB</b>         |
| <b>Code</b>         | <b>18ELU19</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Design various types of power supplies for circuits           |
| CO-2                | Develop capability in designing amplifiers and oscillators    |
| CO-3                | Understand the use of signal processing in circuit designing  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>ELECTRONIC COMMUNICATION - II</b>                   |
| <b>Code</b>         | <b>18ELU21</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Understand and explain working of communication systems         |
| CO-2                | Apply the systems studied as circuits in day-today requirements |
| CO-3                | Implement the various circuit techniques in building circuits   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>INDUSTRIAL AND POWER ELECTRONICS</b>                      |
| <b>Code</b>         | <b>18ELU22</b>  |
|                     | <b>On completion of the course, students would be able to</b>         |
| CO-1                | Understand the working of power devices                               |
| CO-2                | Realize circuits using the power devices                              |
| CO-3                | Understand the devices capabilities and limitations on power circuits |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>PIC MICROCONTROLLER</b>                            |
| <b>Code</b>         | <b>18ELU23</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Understand the architecture and peripherals of microcontroller |
| CO-2                | Program PIC microcontrollers                                   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>COMPUTER HARDWARE AND NETWORKING</b>              |
| <b>Code</b>         | <b>18ELU24A</b>   |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Know about the various types of motherboard available         |
| CO-2                | Develop the skills in assembling a PC                         |
| CO-3                | Understand the different network protocols                    |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>ROBOTICS AND AUTOMATION</b>                       |
| <b>Code</b>         | <b>18ELU24B</b>   |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Get a clear idea about robotic control                        |
| CO-2                | Have knowledge about fabricating a robot for any application  |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>EDC - FUNDAMENTALS OF DIGITAL COMPUTER</b>                 |
| <b>Code</b>         | <b>18GECEDC</b>  |
|                     | <b>On completion of the course, students would be able to</b>          |
| CO-1                | Get a basic idea about electronic digital components                   |
| CO-2                | Apply the gained knowledge to form simple circuits                     |
| CO-3                | Use the gained knowledge in understanding domestic electronic circuits |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>VLSI DESIGN</b>  |
| <b>Code</b>         | <b>18ELU26</b>   |
|                     | <b>On completion of the course, students would be able to</b>      |
| CO-1                | Develop skill in CMOS domain                                       |
| CO-2                | Recognize the different CMOS logic for combinational logic circuit |
| CO-3                | Evaluate the design of PLD and FPGA                                |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>PROGRAMMABLE LOGIC CONTROLLER</b>                 |
| <b>Code</b>         | <b>18ELU27</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Understand different type of PLC and its applications         |
| CO-2                | Understand different instruction sets using in the PLC        |
| CO-3                | Develop the ladder logic program for different applications   |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>MEDICAL ELECTRONICS</b>                                  |
| <b>Code</b>         | <b>18ELU28</b>   |
|                     | <b>On completion of the course, students would be able to</b>        |
| CO-1                | Understand the concepts of Electrical activity in the cells          |
| CO-2                | Know the principles of various electrodes and biomedical transducers |
| CO-3                | Know the principles involved in various biomedical instruments       |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>MOBILE TECHNOLOGY</b>                             |
| <b>Code</b>         | <b>18ELU29A</b>   |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Gets a clear knowledge about mobile concepts                  |
| CO-2                | Get a clear idea about GSM protocols                          |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>AUTOMOTIVE ELECTRONICS</b>                        |
| <b>Code</b>         | <b>18ITU29B</b>   |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Gain knowledge in battery charging circuits                   |
| CO-2                | Understand concept involved in fuel injection system          |
| CO-3                | Know electrical wiring systems in automobiles                 |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>PRACTICAL VII – ELECTRONIC COMMUNICATION LAB</b>  |
| <b>Code</b>         | <b>18ELU30</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Understand the working of modulation circuits                 |
| CO-2                | Design communication circuits                                 |
| CO-3                | Know the operation of EHT circuits in television              |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>PRACTICAL VIII – INDUSTRIAL AND POWER ELECTRONICS LAB</b> |
| <b>Code</b>         | <b>18ELU31</b>  |
|                     | <b>On completion of the course, students would be able to</b>         |
| CO-1                | Understand the working principle of UPS                               |
| CO-2                | Use power electronic devices in circuits.                             |
| CO-3                | Learn designing a PCB   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>PRACTICAL IX – EMBEDDED SYSTEM LAB</b>            |
| <b>Code</b>         | <b>18ELU32</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Gain knowledge in assembly language programming               |
| CO-2                | Design circuits using microcontroller                         |
| CO-3                | Program a PLC for any application                             |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>8051 MICROCONTROLLER</b>                          |
| <b>Code</b>         | <b>18ITU17/19ITU17</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Gain knowledge in 8051 microcontroller                        |
| CO-2                | Develop knowledge of interfacing devices with 8051            |
| CO-3                | Develop the product based on 8051                             |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>8051 MICROCONTROLLER LAB</b>                      |
| <b>Code</b>         | <b>18ITU20/19ITU19</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Gain knowledge in programming 8051                            |
| CO-2                | Gain knowledge on interfacing with 8051                       |
| CO-3                | Know the operation of LED and DC motor operations             |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>LOGIC CIRCUITS AND PC HARDWARE</b>                |
| <b>Code</b>         | <b>18MCU20</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Gain knowledge logic gates                                    |
| CO-2                | Gain knowledge on sequential and combinational circuits       |

|      |                           |
|------|---------------------------|
| CO-3 | Maintaining PC and laptop |
|------|---------------------------|

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>LOGIC CIRCUITS LAB</b>                            |
| <b>Code</b>         | <b>18MCU21</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Gain knowledge on number systems and logic gates              |
| CO-2                | Gain knowledge on sequential and combinational circuits       |
| CO-3                | Know the operation of ADC and DAC conversions                 |



Since 1947

# PSG College of Arts & Science Coimbatore – 641 014

## Programme: BSc Microbiology

### Programme Outcomes

| Programme Outcomes |   |
|--------------------|---|
|                    | On completion of the programme, the student will be able to   |
| PO-1               | Students will become knowledgeable in the subject of Microbiology and apply the principles of the same to the needs of the employer / institution / own business enterprise |
| PO-2               | Gain analytical skills in the field of Microbiology and Life Sciences   |
| PO-3               | Understand and appreciate professional ethics, community living and Nation building activities  |
| PO-4               | The acquired skill in Microbiology would aid the students to lay a strong research foundation and innovation in the field of life sciences                                  |
| PO-5               | The students will obtain proficiency in scientific reading and writing  |

### Programme Specific Outcomes

| Programme Specific Outcomes |   |
|-----------------------------|---|
|                             | On completion of the programme, the student will be able  |
| PSO-1                       | Apply the knowledge of Microbiology in the domain of Life Sciences  |
| PSO-2                       | Solve the complex problems in the field of Microbiology with an understanding of the legal and environmental impacts of solution                    |
| PSO-3                       | Apply the contextual knowledge of Microbiology to function effectively as a professional in the basic and multidisciplinary areas of Microbiology   |
| PSO-4                       | Applying knowledge of Microbiology to specific issues and problems being faced in the society or industry and design solutions for complex problems |

### Course Outcomes

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>FUNDAMENTALS OF MICROBIOLOGY</b>   |
| <b>Code</b>         | <b>18MBU01</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Understand the introductory concepts of Microbiology   |
| CO-2                | Create an understanding in the milestones in Microbiology  |
| CO-3                | Explanation of the introductory concepts of various microorganisms like bacteria, algae, fungi and protozoan |
| CO-4                | Acquire knowledge on basic factors involved in differentiating prokaryotes and eukaryotes                    |
| CO-5                | Procure the knowledge about the economic importance and salient features of microorganisms                   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>PRINCIPLES OF MICROBIOLOGICAL METHODS</b>             |
| <b>Code</b>         | <b>18MBU02</b>  |
|                     | <b>On completion of the course, students would be able to</b>     |
| CO-1                | Handle the different types of microscopes                         |
| CO-2                | Identify the morphology of different types of bacteria            |
| CO-3                | Apply sterilization techniques using physical and chemical agents |
| CO-4                | Cultivate the bacteria in laboratory conditions                   |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>MICROBIAL DIVERSITY AND TAXONOMY</b>   |
| <b>Code</b>         | <b>18MBU05</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Understand and acquire knowledge on binomial nomenclature and classification system of Microorganism |
| CO-2                | Bring out the phylogenetic relatedness and phenetic relationship between microorganism               |

|      |  |
|------|--|
| CO-3 | Elucidate the structure and functions of photosynthetic bacteria   |
| CO-4 | Obtain a detailed knowledge on the Bacterial, Archaeal diversity and its salient features could be ensured |
| CO-5 | Enlist the viral classification system and the structural properties of viruses                            |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>CELL BIOLOGY AND MICROBIAL GENETICS</b>           |
| <b>Code</b>         | <b>18MBU06</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Illustrate the compartmentalization of organelles             |
| CO-2                | Understand cell to cell interactions and their Mechanisms     |
| CO-3                | Interpret the importance of hereditary material               |
| CO-4                | Acknowledge the mechanisms of gene transfer                   |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>MICROBIOLOGY PRACTICAL – I</b>                         |
| <b>Code</b>         | <b>18MBU08</b>   |
|                     | <b>On completion of the course, students would be able to</b>      |
| CO-1                | The microscopic handling and identification of organisms           |
| CO-2                | The sterilization techniques and filtration procedures             |
| CO-3                | The different staining techniques                                  |
| CO-4                | The preparation of various media for cultivation of microorganisms |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>MICROBIAL PHYSIOLOGY AND METABOLISM</b>                          |
| <b>Code</b>         | <b>18MBU10</b>   |
|                     | <b>On completion of the course, students would be able to</b>                |
| CO-1                | Demonstrate a fundamental understanding of the functions of a bacterial cell |
| CO-2                | Comprehend various metabolic processes of the prokaryotic cells              |
| CO-3                | Understand how metabolic pathways are integrated for various cellular events |
| CO-4                | Differentiate bacterial cells based on their physiological characteristics   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>MOLECULAR BIOLOGY</b>                             |
| <b>Code</b>         | <b>18MBU11</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Analyze the role of genetic material in living organism       |
| CO-2                | Understand the expression of gene regulation                  |
| CO-3                | Interpret the importance of genetic code                      |
| CO-4                | Analytically explain the eukaryotic cellular organization     |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>BIOINSTRUMENTATION</b>  |
| <b>Code</b>         | <b>18MBU13</b>  |
|                     | <b>On completion of the course, students would be able to</b>                                       |
| CO-1                | The measurement of pH by using pH meter and measurement of microbial growth using spectrophotometer |
| CO-2                | Centrifugation of bacterial cells and separation of cell components                                 |
| CO-3                | Various chromatography techniques for the identification of amino acids                             |
| CO-4                | Electrophoresis for the separation of proteins  |
| CO-5                | The measurement of radio activity for various radioactive isotopes                                  |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>SOIL AND AGRICULTURAL MICROBIOLOGY</b>   |
| <b>Code</b>         | <b>18MBU14</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Enlist the distribution and abundance of various soil microorganisms   |
| CO-2                | Predict the various synergistic and ammensalic relationship taking place between microorganisms                                      |
| CO-3                | Correlate the role of microorganisms in mediating various biogeochemical cycling of elements   |
| CO-4                | Perform the mass production of Biofertilizers and microbial insecticides and get enlightened with the mechanism of Nitrogen fixation |
| CO-5                | Elucidate the various symbiotic associations prevailing between microbes and insects   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>MICROBIOLOGY PRACTICALS – II</b>                  |
| <b>Code</b>         | <b>18MBU16</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Screen pure culture   |
| CO-2                | Understand the physiological nature of microbial growth       |
| CO-3                | Identify and separate biomolecules                            |
| CO-4                | Understand the impact of environmental parameters             |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>PRINCIPLES OF GENETIC ENGINEERING AND RECOMBINANT<br/>DNA TECHNOLOGY</b>                  |
| <b>Code</b>         | <b>18MBU17</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Explain the tools used in genetic engineering   |
| CO-2                | Comprehend various types of vector, PCR and DNA sequencing  |
| CO-3                | Apply the knowledge of recombinant DNA technology for solving problems encountered in various spheres |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>IMMUNOLOGY</b>  |
| <b>Code</b>         | <b>18MBU18</b>  |
|                     | <b>On completion of the course, students would be able to</b>                                 |
| CO-1                | The characterization of antigen and antibody  |
| CO-2                | Active and passive immunization   |
| CO-3                | Various immunological techniques for the diagnosis of microbial infections                    |
| CO-4                | The characterization of different types of hypersensitivity reactions and autoimmune diseases |

|                     |                                      |
|---------------------|--------------------------------------|
| <b>Course Title</b> | <b>Core<br/>MEDICAL MICROBIOLOGY</b> |
| <b>Code</b>         | <b>18MBU19</b>                       |

|      | <b>On completion of the course, students would be able to</b>  |
|------|--|
| CO-1 | Have a brief exposure on the various clinically important pathogens involved in outbreak of various diseases   |
| CO-2 | Identify and characterize various bacteria namely <i>E. coli</i> , <i>Salmonella</i> , <i>Pseudomonas</i> , <i>Staphylococcus</i> , <i>Streptococcus</i> , <i>Klebsiella</i> , <i>Proteus</i> , on the basis of cultural, morphological and biochemical characteristics: IMViC, TSI, nitrate reduction, urease production and catalase tests |
| CO-3 | Analyze the fungal flora that are capable of causing skin infections and predict a suitable diagnostic method and device treatment strategies  |
| CO-4 | Understand the prevalence of various viral infections, symptoms, diagnosis and its treatment methods   |
| CO-5 | Elucidate various methods to identify the causative organism present in the clinical specimen that is responsible for causing the infection  |

| <b>Course Title</b> | <b>Core</b>   |
|---------------------|---|
|                     | <b>FOOD MICROBIOLOGY</b>  |
| <b>Code</b>         | <b>18MBU20</b>  |
|                     | <b>On completion of the course, students would be able to</b>           |
| CO-1                | Analyze the level of microbial spoilage and the preservative techniques |
| CO-2                | Understand the importance of fermented foods                            |
| CO-3                | Know the food borne pathogens & related illness                         |
| CO-4                | Regulate the rules of food safety                                       |

| <b>Course Title</b> | <b>Discipline Specific Elective Course I</b>  |
|---------------------|---|
|                     | <b>ANTIMICROBIALS AND CHEMOTHERAPY</b>  |
| <b>Code</b>         | <b>18MBU21A</b>   |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Understand the milestones in chemotherapy   |
| CO-2                | Evaluate the Characteristic features and effectiveness of various chemotherapeutic drugs and elucidate the susceptibility pattern of commercially available drugs |
| CO-3                | Acquire knowledge on the mechanism of action and applications of various chemotherapeutic agents  |

|      |   |
|------|---|
| CO-4 | Get sensitized with the commercially available drugs for the treatment of urinary infections, respiratory tract infections, gastro intestinal infection and Mycobacterial disease |
| CO-5 | Predict the ways of emergence of drug resistance and control of spread of drug resistance in the environment  |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Discipline Specific Elective Course – I<br/>PRINCIPLES OF GOOD LABORATORY PRACTICES</b> |
| <b>Code</b>         | <b>18MBU21B</b>  |
|                     | <b>On completion of the course, students would be able to</b>                              |
| CO-1                | Understand the internal and external quality control assessments                           |
| CO-2                | Bring out the importance of external quality assessment system                             |
| CO-3                | Elucidate the need for the quality control and its benefits                                |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>APPLIED BIOTECHNOLOGY</b>                                     |
| <b>Code</b>         | <b>18MBU23</b>  |
|                     | <b>On completion of the course, students would be able to</b>             |
| CO-1                | Appreciate the usefulness of biotechnology in health care and environment |
| CO-2                | Understand how genetic engineering has revolutionized the human life      |
| CO-3                | Gain knowledge in the patent process                                      |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>INDUSTRIAL MICROBIOLOGY</b>                         |
| <b>Code</b>         | <b>18MBU24</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Industrially get adapted with the working fermentors            |
| CO-2                | Synchronize the methods of safety measures in product formation |
| CO-3                | Gather knowledge about different microbial products             |
| CO-4                | Familiar with the industrial environment                        |

|                     |                                   |
|---------------------|-----------------------------------|
| <b>Course Title</b> | <b>Core<br/>MICROBIAL ECOLOGY</b> |
|---------------------|-----------------------------------|

|             |   |
|-------------|---|
| <b>Code</b> | <b>18MBU25</b>  |
|             | <b>On completion of the course, students would be able to</b>   |
| CO-1        | Predict the functions and diversity of microbes in their natural environments   |
| CO-2        | Understand the various Microbial interactions prevailing in Rhizosphere, phyllosphere and spermosphere regions  |
| CO-3        | Develop a keen knowledge on the Biodegradation of dyes and pesticides, waste water treatment, solid waste disposal, bioleaching, bioremediation of heavy metals |
| CO-4        | Describe the effect of microbial infections on plant physiology   |
| CO-5        | Evaluate the various treatment strategies available for the treatment of waste water and estimate the BOD and COD of waste water samples                        |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>VIROLOGY</b>   |
| <b>Code</b>         | <b>18MBU26</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | The handling of culture techniques in virology   |
| CO-2                | The physiological pattern of viral growth  |
| CO-3                | The essential interactions of different viruses  |
| CO-4                | The mechanism of transmission  |
| CO-5                | Evaluate the various treatment strategies available for the treatment of waste water and estimate the BOD and COD of waste water samples |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Discipline Specific Elective Course II<br/>BIOSTATISTICS AND RESEARCH METHODOLOGY</b> |
| <b>Code</b>         | <b>18MBU27A</b>  |
|                     | <b>On completion of the course, students would be able to</b>                            |
| CO-1                | Obtain a fundamental knowledge of statistical tools                                      |
| CO-2                | Comprehend various biological data and present them using suitable tables or figures     |
| CO-3                | Have a clear-cut understanding of research methodology                                   |

|               |   |
|---------------|---|
| <b>Course</b> | <b>Discipline Specific Elective Course II</b> |
|---------------|---|

|              |  |
|--------------|--|
| <b>Title</b> | <b>QUALITY CONTROL IN CLINICAL AND INDUSTRIAL<br/>MICROBIOLOGY LABORATORIES</b>                    |
| <b>Code</b>  | <b>18MBU27B</b>  |
|              | <b>On completion of the course, students would be able to</b>                                      |
| CO-1         | Understand the preservation of cultures and quality control in the preparation of media and stains |
| CO-2         | Bring out the importance of vaccination  |
| CO-3         | Elucidate the importance of Antimicrobial susceptibility testing                                   |

|                         |   |
|-------------------------|---|
| <b>Course<br/>Title</b> | <b>Core<br/>MICROBIOLOGY PRACTICALS – III</b>   |
| <b>Code</b>             | <b>18MBU28</b>  |
|                         | <b>On completion of the course, students would be able to</b>                                 |
| CO-1                    | Identify and characterize the various bacterial pathogens                                     |
| CO-2                    | Acquire adequate knowledge in various techniques of Precipitation and agglutination reactions |
| CO-3                    | Evaluate the potability of the drinking water sample  |
| CO-4                    | Analyse the food pathogens and learn the mass production of mushroom, wine and citric acid    |
| CO-5                    | Get sensitized with various molecular methods for the analysis of DNA and Protein samples     |

|                         |  |
|-------------------------|--|
| <b>Course<br/>Title</b> | <b>Generic Elective Course – Cluster VIII<br/>MICROBES IN DAILY LIFE</b> |
| <b>Code</b>             | <b>18GECMBU</b>  |
|                         | <b>On completion of the course, students would be able to</b>            |
| CO-1                    | Some fermented products by using microorganisms                          |
| CO-2                    | Identification of microbial pathogens                                    |
| CO-3                    | Vaccination for next generation  |



Since 1947

## PSG College of Arts & Science Coimbatore – 641 014

### Programme: BSc Catering Science & Hotel Management

#### Programme Outcomes

|      | <b>On completion of the programme, the student will be able to</b>   |
|------|--|
| PO-1 | Become knowledgeable in the subject of Catering Science & Hotel Management and apply the principles of the same to the needs of the Employer / Institution /own Business or Enterprise |
| PO-2 | Gain Analytical skills in the field/area of Catering Science and Hotel Management  |
| PO-3 | Understand and appreciate professional ethics, community living and Nation Building initiatives  |
| PO-4 | Mastering the skills required for different section in the hotel industry  |
| PO-5 | To develop the entrepreneurship quality  |
| PO-6 | To create competent hospitality professionals nationally and globally  |
| PO-7 | To pursue higher education in the arena of Hospitality and tourism   |
| PO-8 | Acquire jobs at the early stages of their carrier  |

#### Programme Specific Outcomes

|       | <b>On completion of the programme, the student will be able</b>  |
|-------|--|
| PSO-1 | Apply the knowledge of Catering Science & Hotel Management in the domain of Hospitality Industry   |
| PSO-2 | Solve the complex problems in the field of Hospitality – (customers & Service providers) with an understanding of the societal, legal and cultural impacts of the solution |
| PSO-3 | Unique four months Industrial Exposure Training cum placement exclusively during the final year  |
| PSO-4 | Form a part of member in a team with right attitudes   |

### Course Outcomes

| Course Title | Core<br>FUNDAMENTALS OF CULINARY ARTS  |
|--------------|--|
| <b>Code</b>  | <b>18HMU01</b>   |
|              | <b>On completion of the course, students would be able to</b>                                  |
| CO-1         | Plan, & design a kitchen layout and Operate kitchen equipments in a safe manner                |
| CO-2         | Order purchase and store vegetables, fruits and dairy products                                 |
| CO-3         | Identify, select, purchase and store eggs, herbs , spices and non perishable goods             |
| CO-4         | Display the knowledge of various knife cuts and be well versed in different methods of cooking |
| CO-5         | Prepare basic Indian culinary mis en place   |

| Course Title | Core<br>FUNDAMENTALS OF FOOD SERVICE – I                      |
|--------------|---|
| <b>Code</b>  | <b>18HMU02</b>  |
|              | <b>On completion of the course, students would be able to</b> |
| CO-1         | Develop competency in the basics of food service              |
| CO-2         | Appraise the qualities of food service personnel              |
| CO-3         | Analyze the areas of food service and equipments              |
| CO-4         | Demonstrate a basic knowledge of menu and compilation         |
| CO-5         | Develop knowledge about non-alcoholic beverages and tobacco   |

| Course Title | Core<br>HYGIENE & SANITATION                                     |
|--------------|--|
| <b>Code</b>  | <b>18HMU03</b>   |
|              | <b>On completion of the course, students would be able to</b>    |
| CO-1         | Practice general procedure regarding personal hygiene and safety |
| CO-2         | Analyze risk associated with food and serve safe food            |

|      |   |
|------|---|
| CO-3 | Apply the sanitation procedures in food handling  |
| CO-4 | Demonstrate the principles of cleaning, disinfection and effective pest control methods |
| CO-5 | To Practice laws governing the food safety and standards                                |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>INDIAN REGIONAL CUISINE</b>  |
| <b>Code</b>         | <b>18HMU04</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Administer the knowledge on quality Purchase of fish, poultry and prepare dishes applying appropriate cutting techniques     |
| CO-2                | Clearly state the terms used in the industry to identify fabricated meat cuts, and execute best cooking methods for each cut |
| CO-3                | Be fully capable to explain and carryout the processes for making Indian regional cuisine                                    |
| CO-4                | Exhibit skills in the preparation Indian dishes  |
| CO-5                | Know and be able to prepare specialty regional Indian dishes   |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>FUNDAMENTALS OF FOOD SERVICE – II</b>                                  |
| <b>Code</b>         | <b>18HMU05</b>   |
|                     | <b>On completion of the course, students would be able to</b>                      |
| CO-1                | Familiarize with various forms of meals and their menus                            |
| CO-2                | Manage room service and its operations   |
| CO-3                | Develop knowledge about specialized forms of service available in the F&B industry |
| CO-4                | Handle food and beverage orders from customers and food and beverage bills         |
| CO-5                | Plan and organize Outdoor, Banquet & Function catering                             |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>FOOD PRODUCTION &amp; PATISSERIE PRACTICAL – I</b> |
| <b>Code</b>         | <b>18HMU08</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |

|      |  |
|------|--|
| CO-1 | Evolve as a kitchen professional with fundamentals skills in kitchen management  |
| CO-2 | Handling of professional kitchen equipments in a efficient manner  |
| CO-3 | Employ a variety of cooking techniques, and basic professional guidelines to prepare Indian dishes with optimal flavor, texture, temperature, and presentation |
| CO-4 | Integrate flavors, ingredients, seasonings, and cooking techniques of Indian cuisines in keeping with both traditional and current trends                      |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>FOOD &amp; BEVERAGE SERVICE PRACTICAL – I</b>         |
| <b>Code</b>         | <b>18HMU09</b>  |
|                     | <b>On completion of the course, students would be able to</b>     |
| CO-1                | Understand and identify the different types of service equipments |
| CO-2                | Demonstrate the handling of service equipments                    |
| CO-3                | Develop skill and knowledge in planning of menus                  |
| CO-4                | Demonstrate the service of foods and non-alcoholic beverages      |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>WESTERN CUISINE</b>   |
| <b>Code</b>         | <b>18HMU10</b>  |
|                     | <b>On completion of the course, students would be able to</b>                             |
| CO-1                | Know the equipment, materials and methods used in preparation of Stocks, Sauces and Soups |
| CO-2                | Know the special features and popular dishes in French and German Cuisine                 |
| CO-3                | Apply professional skills and consider hygiene, safety when preparing European menus      |
| CO-4                | Evaluates the quality of menus in the European Cuisine                                    |
| CO-5                | Handle the utensils used in European Cuisine  |
| CO-6                | Apprise Mediterranean and Mexican culinary aspects  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>WINES OF THE WORLD</b>                              |
| <b>Code</b>         | <b>18HMU11</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Recognize different types of grapes and wines                   |
| CO-2                | Understand the steps involved to produce various types of wines |
| CO-3                | Analyze the wines of different countries and their wine laws    |
| CO-4                | Apply the knowledge in pairing wine with food                   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>HOUSEKEEPING MANAGEMENT</b>                             |
| <b>Code</b>         | <b>18HMU12</b>  |
|                     | <b>On completion of the course, students would be able to</b>       |
| CO-1                | Know scope and opportunity in Housekeeping department               |
| CO-2                | Prepare daily routine and manage the operations                     |
| CO-3                | Identify and choose equipment and cleaning agents for various works |
| CO-4                | Maintain different surface and control different pest               |
| CO-5                | Develop knowledge on textile and laundry operation                  |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>HOUSEKEEPING MANAGEMENT PRACTICAL</b>                      |
| <b>Code</b>         | <b>18HMU14</b>   |
|                     | <b>On completion of the course, students would be able to</b>          |
| CO-1                | Understand and identify the different types of Housekeeping equipments |
| CO-2                | Clean and maintain different surfaces                                  |
| CO-3                | Develop skill and knowledge in flower arrangement                      |
| CO-4                | Get ready the Hotel rooms  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>FOOD CARVING PRACTICALS</b>   |
| <b>Code</b>         | <b>18HMU15</b>  |
|                     | <b>On completion of the course, students would be able to</b>                           |
| CO-1                | Identify and use the different types of carving tools                                   |
| CO-2                | Demonstrate the knife skill in food carving using fruits, vegetables, ice and Styrofoam |
| CO-3                | Arrange the edible and non-edible carving displays                                      |
| CO-4                | Apply carving techniques in food presentation   |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>INTERNATIONAL CUISINE</b>  |
| <b>Code</b>         | <b>18HMU16</b>   |
|                     | <b>On completion of the course, students would be able to</b>                            |
| CO-1                | Apply previously learned cooking and preparation skills in charcuterie products          |
| CO-2                | Prepare various types of Chaudfroid products, Aspics and glee                            |
| CO-3                | Master the art of preparing and in the presentation of Appetizers, salads and sandwiches |
| CO-4                | Describe the different styles of East Asian cuisine                                      |
| CO-5                | Identify general and Asian Cuisine specific kitchen equipment, utensils and their uses   |
| CO-6                | Practice the techniques involved in Molecular Gastronomy                                 |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>BREWED AND DISTILLED BEVERAGES</b>   |
| <b>Code</b>         | <b>18HMU17</b>   |
|                     | <b>On completion of the course, students would be able to</b>                            |
| CO-1                | Remember about alcohol and its uses  |
| CO-2                | Describe the different types of distillation process                                     |
| CO-3                | Classify different types of spirits  |
| CO-4                | Understand about liqueurs and spirits  |
| CO-5                | Analyze the operations of bar and apply the skills in preparation of cocktails/mocktails |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>FRONT OFFICE MANAGEMENT</b>                        |
| <b>Code</b>         | <b>18HMU18</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Know the basic front office operations                         |
| CO-2                | Handle the reservation and registration procedures             |
| CO-3                | Prepare Front Office Accounting reports                        |
| CO-4                | Calculate and prepare various Front Office records and reports |
| CO-5                | Appraise PMS in Hotel Front Office                             |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Discipline Specific Elective – I<br/>HOSPITALITY ENTREPRENEURSHIP</b> |
| <b>Code</b>         | <b>18HMU20A</b>  |
|                     | <b>On completion of the course, students would be able to</b>            |
| CO-1                | Define, Identify the purpose of entrepreneurship                         |
| CO-2                | Analyze various government policies and entrepreneurial process          |
| CO-3                | Develop and establish entrepreneurial system and prepare a business plan |
| CO-4                | Prepare a Project report and will be able to manage family enterprise    |
| CO-5                | Evolve as a entrepreneur in Hospitality Sector                           |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Discipline Specific Elective – I<br/>PERSONALITY DEVELOPMENT</b>                              |
| <b>Code</b>         | <b>18HMU20B</b>  |
|                     | <b>On completion of the course, students would be able to</b>                                    |
| CO-1                | Analyze oneself and to communicate effectively with qualities of self confidence and self esteem |
| CO-2                | Evolve as a leader with critical thinking skills   |
| CO-3                | Handle stress, conflict in a effective way and to work as a team in an organization              |
| CO-4                | Manage time in an efficient manner   |
| CO-5                | Enhance holistic development of students and improve their employability skills                  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>FRONTOFFICE MANAGEMENT PRACTICAL</b>  |
| <b>Code</b>         | <b>18HMU21</b>  |
|                     | <b>On completion of the course, students would be able to</b>                               |
| CO-1                | Handle front office equipments in a effective and skillful way                              |
| CO-2                | Effectively communicate with guest in a hotel front office                                  |
| CO-3                | Handle different situations arising in a hotel and to promptly resolve it                   |
| CO-4                | Handle reservation, registration and departure of guest                                     |
| CO-5                | Prepare various reports pertaining to Hotel front office                                    |
| CO-6                | Use computers in front office regarding reservation systems, PMS and hotel related software |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>MIXOLOGY PRACTICAL</b>                              |
| <b>Code</b>         | <b>18HMU22</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Understanding the concept in designing of a bar and its layout  |
| CO-2                | Describe about bar tools, techniques and glassware              |
| CO-3                | Explain the procedures involved in opening and closing of a bar |
| CO-4                | Prepare different types of cocktails                            |
| CO-5                | Demonstrate the bar flair techniques                            |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>FOOD PRODUCTION &amp; PATISSERIE PRACTICAL – II</b>  |
| <b>Code</b>         | <b>18HMU23</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Evolve as a kitchen professional with fundamentals skills in continental cuisine   |
| CO-2                | Prepare basic stocks, sauces and soups from continental cuisine  |
| CO-3                | Employ a variety of cooking techniques, and basic professional guidelines to prepare continental with optimal flavor, texture, temperature, and presentation |
| CO-4                | Comprehend the functions of ingredients and apply it in western style culinary   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>FOOD AND BEVERAGE SERVICE PRACTICAL – II</b>                |
| <b>Code</b>         | <b>18HMU24</b>  |
|                     | <b>On completion of the course, students would be able to</b>           |
| CO-1                | Apply the knowledge gained in pairing of wine and food                  |
| CO-2                | Describe different kinds of banquet menu                                |
| CO-3                | Develop menu in French with wine suggestions                            |
| CO-4                | Outline the contents of wine label                                      |
| CO-5                | Demonstrate the service of wines, Spirits and other alcoholic beverages |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>FOOD AND BEVERAGE MANAGEMENT</b>   |
| <b>Code</b>         | <b>18HMU25</b>   |
|                     | <b>On completion of the course, students would be able to</b>                                      |
| CO-1                | State the nature of food and beverage management in various F&B Outlets                            |
| CO-2                | Explain the routines for ordering, receiving, storing and controlling of food and beverage stocks  |
| CO-3                | Determine the knowledge of food and beverage production and their service techniques               |
| CO-4                | Attain the basic understanding about the various tools and techniques of food and beverage control |
| CO-5                | Develop knowledge on the different costs involved in food and beverage operation and their control |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>TOURISM AND EVENT MANAGEMENT</b>                                 |
| <b>Code</b>         | <b>18HMU26</b>   |
|                     | <b>On completion of the course, students would be able to</b>                |
| CO-1                | To familiarize the students in the fundamentals of tourism                   |
| CO-2                | Classify tourism products and analyze the characteristic of tourism products |
| CO-3                | Appraise National and International Tourism Organization                     |
| CO-4                | Work as a organizing committee in an event                                   |
| CO-5                | Apply designing and Logistics in Event Management                            |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>HUMAN RESOURCE MANAGEMENT</b>  |
| <b>Code</b>         | <b>18HMU27</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Explain the importance of HRM and their role in effective management                                 |
| CO-2                | Demonstrate a basic understanding of different tools used in forecasting and planning HR needs       |
| CO-3                | Analyze the role of recruitment, selection and interviews in relation to the organization's business |
| CO-4                | State the significance of monetary and non-monetary benefits to both employers and employees         |
| CO-5                | Analyze core issues, policies and practices surrounding employee relations and legal issues          |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>FACILITY MANAGEMENT</b>  |
| <b>Code</b>         | <b>18HMU28</b>   |
|                     | <b>On completion of the course, students would be able to</b>                            |
| CO-1                | Obtain knowledge on Hotel classification guidelines and Architectural features and plans |
| CO-2                | Construct the layout plan on Restaurant and Bar  |
| CO-3                | Design the kitchen layout on various types of commercial kitchen                         |
| CO-4                | Setup the receiving and storage area   |
| CO-5                | Obtain the knowledge on space management and design on front office and accommodation    |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Discipline Specific Elective Course – II<br/>FOOD CARVING &amp; PLATE PRESENTATION</b> |
| <b>Code</b>         | <b>18HMU29A</b>   |
|                     | <b>On completion of the course, students would be able to</b>                             |
| CO-1                | Prepare plate presentation with appropriate garnish and carving                           |
| CO-2                | Do the different types garnishes with various fruits and vegetables                       |
| CO-3                | Carve small objects, flowers using vegetables   |
| CO-4                | Do the fruit carving using different fruits   |
| CO-5                | Select the correct ice block for ice carving  |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Discipline Specific Elective Course – II<br/>BAKERY AND CONFECTIONARY</b> |
| <b>Code</b>         | <b>18HMU29B</b>  |
|                     | <b>On completion of the course, students would be able to</b>                |
| CO-1                | Measure, convert bakery formulas and do the baking process successfully      |
| CO-2                | Identify, select the right ingredients and equipments efficiently            |
| CO-3                | Effectively select the method of dough mixing for the customized output      |
| CO-4                | Showcase their skill in modeling different cakes and cookies                 |
| CO-5                | Create various pastry products using basic principles                        |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>FOOD PRODUCTION &amp; PATISSERIE PRACTICAL - III</b>   |
| <b>Code</b>         | <b>18HMU30</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Evolve as a kitchen professional with fundamentals skills in international cuisine   |
| CO-2                | Prepare basic spice mixtures from cuisines around the world  |
| CO-3                | Employ a variety of cooking techniques, and basic professional guidelines to prepare Chinese, south east Asian and Mexican cuisine with optimal flavor, texture, temperature, and presentation |
| CO-4                | Comprehend the functions of ingredients and apply it in global cuisine   |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>FOOD &amp; BEVERAGE SERVICE PRACTICAL - III</b>              |
| <b>Code</b>         | <b>18HMU31</b>   |
|                     | <b>On completion of the course, students would be able to</b>            |
| CO-1                | Familiarize with gueridon service  |
| CO-2                | Identify the equipments of gueridon and its maintenance                  |
| CO-3                | Demonstrate the procedure of food preparation and service using gueridon |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>INDUSTRIAL EXPOSURE TRAINING</b>  |
| <b>Code</b>         | <b>18HMU32</b>  |
|                     | <b>On completion of the course, students would be able to</b>                                   |
| CO-1                | Effectively adapt to the work environment in Hotel Industry and get acquainted to work in teams |
| CO-2                | Work in different departments in a hotel with fundamental knowledge                             |
| CO-3                | Approach hotel industry with a confident and clarity mindset                                    |
| CO-4                | Set the stage for future recruitment by potential employers                                     |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Generic Elective Course – Cluster – III<br/>BASIC HOTEL OPERATION</b>     |
| <b>Code</b>         | <b>18GECEDC</b>  |
|                     | <b>On completion of the course, students would be able to</b>                |
| CO-1                | Identify the different types of catering establishments                      |
| CO-2                | Sketch the layout and sections of kitchen and outline the basics of culinary |
| CO-3                | Distinguish the different types of food and beverage operations              |
| CO-4                | Apply wide knowledge in designing of menus                                   |



Since 1947

## PSG College of Arts & Science Coimbatore – 641 014

### Programme: BSc Costume Design and Fashion

#### Programme Outcomes

|      | On completion of the programme, the student will be able to   |
|------|---|
| PO-1 | Become knowledgeable in the subject of Costume Design & fashion and apply the principles of the same to the needs of the Employer /Institution / own Business or Enterprise |
| PO-2 | Gain Analytical skills in the field of Designing & Merchandising  |
| PO-3 | Understand and appreciate professional ethics, community living and Nation Building initiatives   |
| PO-4 | Design and develop designs and Pattern to skilled as a pattern designer   |
| PO-5 | Fashion Freelance designer and client Consultant for photoshoot, Advertisements, etc.   |
| PO-6 | Join as a Quality controller in Apparel Industry  |
| PO-7 | Join in Buying Agencies for Woven / Knitted / Home textiles   |
| PO-8 | Fashion Stylist in film industry  |

#### Programme Specific Outcomes

|       | On completion of the programme, the student will be able  |
|-------|---|
| PSO-1 | Apply the knowledge of textiles and fashion in the domain of Costume Design & Fashion   |
| PSO-2 | Solve the complex problems in the field of development of garment samples to meet the international buyer requirements with the federal standards with an understanding of the societal, legal and cultural impacts of the solution |
| PSO-3 | Expose their creativity by learning and designing trend through fashion shows and become an energetic Entrepreneur to run his own business  |
| PSO-4 | Form a part of member in a team with right attitudes  |

### Course Outcomes

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>FIBRE AND YARN MANUFACTURING</b>                     |
| <b>Code</b>         | <b>18CDU01</b>   |
|                     | <b>On completion of the course, students would be able to</b>    |
| CO-1                | Gain knowledge about Textile fibers, their properties and uses   |
| CO-2                | Know about the manufacturing process of yarns and sewing threads |
| CO-3                | Develop skill in understanding textiles available in the market  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>PATTERN MAKING AND GRADING</b>  |
| <b>Code</b>         | <b>18CDU02</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Outline the different pattern adaptation techniques used to fit the different figure shapes and garment sizes   |
| CO-2                | Devise the relationships amongst design, patternmaking, grading specifications, sewing and fitting techniques for various styles of intimate products |
| CO-3                | Gain knowledge on basic draping techniques and methods  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>CONCEPTS OF FASHION DESIGNING</b>   |
| <b>Code</b>         | <b>18CDU03</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Know the actual concepts of fashion and how elements and principal of incorporated in garment designing |
| CO-2                | Acquire knowledge on handling colours and its combinations to crate harmony in design                   |
| CO-3                | Use the design elements for irregular figures and optical illusion created by design elements           |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>BASICS OF APPAREL CONSTRUCTION – I PRACTICAL</b>             |
| <b>Code</b>         | <b>18CDU04</b>   |
|                     | <b>On completion of the course, students would be able to</b>            |
| CO-1                | Establish equipment required for basic sewing skills                     |
| CO-2                | Establish different construction techniques used in the garment industry |
| CO-3                | Improve the basic knowledge on hand and machine stitches                 |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>CONCEPTS OF FASHION DESIGNING PRACTICAL</b>       |
| <b>Code</b>         | <b>18CDU05</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Make basic fashion sketching                                  |
| CO-2                | Develop textile designs based on requirement                  |
| CO-3                | Gain knowledge on types of design                             |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>WOVEN FABRIC MANUFACTURING</b>                           |
| <b>Code</b>         | <b>18CDU06</b>   |
|                     | <b>On completion of the course, students would be able to</b>        |
| CO-1                | Identify loom requirements to manufacture different weave structures |
| CO-2                | Design weaves patterns based on enduses                              |
| CO-3                | Apply and understand the application of non wovenfabrics             |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>KNITTED FABRIC MANUFACTURING</b>                     |
| <b>Code</b>         | <b>18CDU07</b>   |
|                     | <b>On completion of the course, students would be able to</b>    |
| CO-1                | Understand Manufacturing Techniques and applications of knitting |
| CO-2                | Understand the structural property relations of knitted fabrics  |
| CO-3                | Know about the applications and enduses of knitted fabrics       |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>FABRIC STRUCTURE ANALYSIS PRACTICAL</b>           |
| <b>Code</b>         | <b>18CDU08</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Design their own fabric designs with draft and peg plan       |
| CO-2                | Understand the fabric types and its properties                |
| CO-3                | Design their own fabrics                                      |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>BASICS OF APPAREL CONSTRUCTION – II PRACTICAL</b> |
| <b>Code</b>         | <b>18CDU09</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Gain knowledge on basics sewing techniques                    |
| CO-2                | Gain knowledge on the basic pattern making concepts           |
| CO-3                | Develop new designs   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>BASICS OF FASHION DESIGNING PRACTICAL</b>         |
| <b>Code</b>         | <b>18CDU10</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Become artist in IT sectors                                   |
| CO-2                | Become web animation designer                                 |
| CO-3                | Become familiar artistic designer                             |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>TEXTILE WET PROCESSING</b>   |
| <b>Code</b>         | <b>18CDU11</b>   |
|                     | <b>On completion of the course, students would be able to</b>                        |
| CO-1                | Gain knowledge about the pre treatment process                                       |
| CO-2                | Know about the different styles and methods involved in dyeing and printing Textiles |
| CO-3                | Develop skill in textile finishes and its applications                               |
| CO-4                | Gain knowledge on quality and pollution control in textile sector                    |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>APPAREL MACHINERY AND EQUIPMENTS</b>              |
| <b>Code</b>         | <b>18CDU12</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Gain knowledge about fabric spreading and marking             |
| CO-2                | Know about the cutting techniques in garment industry         |
| CO-3                | Understands the functions of sewing machine and its types     |
| CO-4                | Develop skill in understanding sewing mechanism and finishing |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>TEXTILE WET PROCESSING PRACTICAL</b>              |
| <b>Code</b>         | <b>18CDU15</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Gain knowledge about pretreatment process                     |
| CO-2                | Enhance knowledge for various dyeing skills                   |
| CO-3                | Achieve various printing skills                               |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>PATTERN MAKING &amp; GARMENT CONSTRUCTION PRACTICAL<br/>(CHILDREN'S WEAR)</b> |
| <b>Code</b>         | <b>18CDU16</b>  |
|                     | <b>On completion of the course, students would be able to</b>                             |
| CO-1                | Develop pattern for children's wear   |
| CO-2                | Gain knowledge on children's apparel  |
| CO-3                | Gain knowledge in knit wear construction  |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>BEAUTY CARE PRACTICAL</b>                              |
| <b>Code</b>         | <b>18CDU17</b>   |
|                     | <b>On completion of the course, students would be able to</b>      |
| CO-1                | Students will be able to identify skin types and treat accordingly |
| CO-2                | Enhance their self grooming skills                                 |
| CO-3                | Perform various make up styles for different occasions             |
| CO-4                | Create basic hairstyles for men and women                          |
| CO-5                | Establish themselves as makeup artist                              |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>FASHION ILLUSTRATION PRACTICAL (CHILDREN'S WEAR)</b> |
| <b>Code</b>         | <b>18CDU18</b>   |
|                     | <b>On completion of the course, students would be able to</b>    |
| CO-1                | Make basic fashion sketching for various head theories           |
| CO-2                | Gain knowledge on types of colour medium                         |
| CO-3                | Develop designs for different occasions                          |
| CO-4                | Gain knowledge in the development of textile swatches            |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>INDUSTRIAL TRAINING</b>   |
| <b>Code</b>         | <b>18CDU19</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Understand the industrial environment work culture and the machineries and processes of industries  |
| CO-2                | Reproduce the techniques like Production Planning, Quality Assurance, Students will be able to maintenance practices, Environment and Pollution Control, Management Information |
| CO-3                | Use hand on training skills   |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>TEXTILE TESTING</b>  |
| <b>Code</b>         | <b>18CDU20</b>   |
|                     | <b>On completion of the course, students would be able to</b>            |
| CO-1                | Will be well versed in textile testing methods                           |
| CO-2                | Have educated about importance of textile testing                        |
| CO-3                | Enable to prepare testing reports  |
| CO-4                | Wide knowledge on quality control and quality practice                   |
| CO-5                | Possible to take on quality standard implementations in textile industry |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>HISTORIC COSTUME AND TRADITIONAL TEXTILES</b>          |
| <b>Code</b>         | <b>18CDU21</b>   |
|                     | <b>On completion of the course, students would be able to</b>      |
| CO-1                | Understand the origin of costumes                                  |
| CO-2                | Identify and design garments using traditional textiles            |
| CO-3                | Gain knowledge on traditional embroidery techniques of each state  |
| CO-4                | Expertise in the costumes used worldwide                           |
| CO-5                | Achieve familiarity about different costumes used in Indian states |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>TEXTILE TESTING PRACTICALS</b>                    |
| <b>Code</b>         | <b>18CDU24</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Handle all the textile testing instruments                    |
| CO-2                | Able to identify fiber, yarn and fabric properties            |
| CO-3                | Interpretation of the results with statistical significance   |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>PATTERN MAKING &amp; GARMENT CONSTRUCTION PRACTICAL<br/>(WOMEN'S WEAR)</b> |
| <b>Code</b>         | <b>18CDU25</b>   |
|                     | <b>On completion of the course, students would be able to</b>                          |
| CO-1                | Know about the preparation of variety clothes of a specified kind for women            |
| CO-2                | Skilled in creating patterns for women's wear  |
| CO-3                | Expertise in designing different style variations from a garment                       |
| CO-4                | Acquire knowledge in handling embellishments according to the requirement              |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>COMPUTER AIDED TEXTILE AND GARMENT<br/>DESIGNING PRACTICAL – I</b> |
| <b>Code</b>         | <b>18CDU26</b>   |
|                     | <b>On completion of the course, students would be able to</b>                  |
| CO-1                | Make presentations and create documents  |
| CO-2                | Draw accessories with corel draw   |
| CO-3                | Gain knowledge on basic computer aided drawing techniques and methods          |
| CO-4                | Create basic croquis with garment in Illustrator                               |
| CO-5                | Edit and morph photographs with Adobe photoshop                                |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>FASHION DRAPING PRACTICAL</b>   |
| <b>Code</b>         | <b>18CDU27</b>  |
|                     | <b>On completion of the course, students would be able to</b>                       |
| CO-1                | Gain Knowledge in achieving fit in garments   |
| CO-2                | Know about the draping skills and techniques of the garments for all age categories |
| CO-3                | Skilled in draping of a range of designer garments                                  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>FASHION CLOTHING PSYCHOLOGY</b>                   |
| <b>Code</b>         | <b>18CDU28</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | The fashion understanding and adoption of clothing behavior   |
| CO-2                | The design according to the market trend                      |
| CO-3                | The stylist job for wardrobe selection                        |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Discipline Specific Elective – I<br/>HOME TEXTILES AND INTERIOR DESIGNING</b> |
| <b>Code</b>         | <b>18CDU29A</b>  |
|                     | <b>On completion of the course, students would be able to</b>                    |
| CO-1                | Understand about the different types of Home textiles                            |
| CO-2                | Know about the different types of linens used in home textile                    |
| CO-3                | Understand the lighting concept in interior designing                            |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Discipline Specific Elective – I<br/>VISUAL MERCHANDISING AND RETAILING</b> |
| <b>Code</b>         | <b>18CDU29B</b>  |
|                     | <b>On completion of the course, students would be able to</b>                  |
| CO-1                | Know the basic terms in visual merchandising                                   |
| CO-2                | Acquire knowledge in the display techniques                                    |
| CO-3                | Gain knowledge about the retail organizations                                  |
| CO-4                | Understand the promotional activities  |
| CO-5                | Know about the career opportunities in the visual merchandising and retailing  |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>PATTERN MAKING &amp; GARMENT CONSTRUCTION<br/>PRACTICAL (MEN'S WEAR)</b> |
| <b>Code</b>         | <b>18CDU30</b>   |
|                     | <b>On completion of the course, students would be able to</b>                        |
| CO-1                | Develop designs and patterns for men's wear  |
| CO-2                | Creating different variations in design from basic patterns                          |

|      |  |
|------|--|
| CO-3 | Understand and incorporate design features and plackets on men's apparel |
| CO-4 | Know men's wear construction and its techniques                          |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>Computer Aided Textile and Garment Designing Practical - II</b> |
| <b>Code</b>         | <b>18CDU31</b>  |
|                     | <b>On completion of the course, students would be able to</b>               |
| CO-1                | Complete designing using Adobe Illustrator                                  |
| CO-2                | Competent to create designs for different occasion                          |
| CO-3                | Gain knowledge on pattern making and marker planning                        |
| CO-4                | Expertise in designing weaves and knit structures                           |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>FASHION ILLUSTRATION PRACTICAL (ADULT'S WEAR)</b>               |
| <b>Code</b>         | <b>18CDU32</b>  |
|                     | <b>On completion of the course, students would be able to</b>               |
| CO-1                | Design garment for concepts   |
| CO-2                | Gain knowledge in designing portfolio garments                              |
| CO-3                | Analyze the designing ideas for future fashion                              |
| CO-4                | Understand and apply the tribal and Indian ethnic arts in garment designing |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>ACCESSORIES DESIGNING PRACTICAL</b>               |
| <b>Code</b>         | <b>18CDU33</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Expertise in designing and making jewellery for all styles    |
| CO-2                | Establish themselves as accessory designers                   |
| CO-3                | Achieve experience in designing fashion accessories           |

|                     |                              |
|---------------------|------------------------------|
| <b>Course Title</b> | <b>Core<br/>PROJECT WORK</b> |
| <b>Code</b>         | <b>18CDU34</b>               |

|      |   |
|------|---|
|      | <b>On completion of the course, students would be able to</b> |
| CO-1 | Develop the awareness of various textile/ apparel fields      |
| CO-2 | Prepare the textile products by their own for industry uses   |
| CO-3 | Gained knowledge on present industry trend and market         |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>APPAREL MARKETING AND MERCHANDISING</b>           |
| <b>Code</b>         | <b>18CDU35</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Gain knowledge about the marketing and management             |
| CO-2                | Know about the different Market Strategy                      |
| CO-3                | Develop skill in merchandiser                                 |
| CO-4                | Gain knowledge on forecasting                                 |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Discipline Specific Elective Course – II<br/>APPAREL QUALITY SYSTEMS</b>                         |
| <b>Code</b>         | <b>18CDU36A</b>   |
|                     | <b>On completion of the course, students would be able to</b>                                       |
| CO-1                | Analyze the apparels for various quality parameters   |
| CO-2                | Apparel defects can be identified by students and the root cause of the defects shall be identified |
| CO-3                | Understand the various quality parameters and systems   |
| CO-4                | Think of eco friendly standard and sustainable methods of apparel production                        |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Discipline Specific Elective Course – II<br/>APPAREL QUALITY SYSTEMS AND PRACTICES</b> |
| <b>Code</b>         | <b>18CDU36B</b>   |
|                     | <b>On completion of the course, students would be able to</b>                             |
| CO-1                | Gain Knowledge on various departments of Apparel Industry                                 |
| CO-2                | Organize and Know about Plant Layouts   |
| CO-3                | Gain the knowledge on Work study practices  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>FASHION STUDIO PRACTICAL</b>                      |
| <b>Code</b>         | <b>18CDU37</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Unique fashion photography using different techniques         |
| CO-2                | Photography under different lightings                         |
| CO-3                | Designer catalogue preparation.                               |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>C HOME FURNISHING PRACTICAL</b>                      |
| <b>Code</b>         | <b>18CDU38</b>   |
|                     | <b>On completion of the course, students would be able to</b>    |
| CO-1                | Enable to start their own Home Furnishing Shop                   |
| CO-2                | Enhance their Skills in Creating their own Home Furnishing Items |
| CO-3                | Establish themselves as Home Furnishing Chain Store Consultant   |
| CO-4                | Become an Effective Home Furnishing Freelance Designer           |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>FASHION PORTFOLIO PRACTICAL</b>                   |
| <b>Code</b>         | <b>18CDU39</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Work with any given concepts and themes                       |
| CO-2                | Well versed in fashion designing software                     |
| CO-3                | Final presentation will convince the industrial demand        |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>FASHION COMMUNICATION PRACTICAL</b>   |
| <b>Code</b>         | <b>18CDU40</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Basic development of students' artistic, technical, theoretical and reflective skills that better prepare them to face the rigors of the competitive professional life. |
| CO-2                | Extend his/her abilities beyond the fundamentals of design and creation and include the broader field of Communication through various mediums                          |
| CO-3                | Research Dissertation and a guarantee of having created competent Fashion Communication professionals   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Generic Elective Course – Cluster – I<br/>BASICS IN COSTUME DESIGN AND FASHION</b> |
| <b>Code</b>         | <b>18GECEDC</b>   |
|                     | <b>On completion of the course, students would be able to</b>                         |
| CO-1                | Understand the concept of textiles and fibers   |
| CO-2                | Carry out basic sketching   |
| CO-3                | Gain knowledge of costume designing   |



Since 1947

# PSG College of Arts & Science Coimbatore – 641 014

## Programme: BSc Visual Communication

### Programme Outcomes

|      | <b>On completion of the programme, the student will be able to</b>                             |
|------|--|
| PO-1 | Gain knowledge and analytical skills in the field of media studies.                            |
| PO-2 | Become professionally trained media personnel with social values, ethics and technical skills. |
| PO-3 | Indulge in media business to suit the regional market demands.                                 |
| PO-4 | Acquire skills to be an independent media talent working across the boundaries.                |

### Programme Specific Outcomes

|       | <b>On completion of the programme, the student will be able</b>  |
|-------|--|
| PSO-1 | Apply fundamentals of various media formats, creative skills and technical competence in media production.   |
| PSO-2 | Engage with multi-cultural perspectives and exhibit comprehensive media knowledge to conceptualize, produce and design media content suitable for contemporary global media environment. |
| PSO-3 | Demonstrate a critical capacity to evaluate media texts and audiences, production practices, and related social issues.  |

## Course Outcomes

| <b>Course Title</b> | <b>Core</b>  |
|---------------------|--|
|                     | <b>INTRODUCTION TO COMMUNICATION</b>   |
| <b>Code</b>         | <b>18VCU01</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Understand print media with emphasis on types, size, periodicity and recent trends   |
| CO-2                | Give an overview on types of radio and television broadcast programs and transmission systems.                                     |
| CO-3                | Understand the role and importance of mass communication and the influence of perceptions on societal culture, behavior and action |

| <b>Course Title</b> | <b>Core</b>  |
|---------------------|--|
|                     | <b>DIGITAL PHOTOGRAPHY</b>   |
| <b>Code</b>         | <b>18VCU02</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Understand conceptual, illustrative and journalistic image content.  |
| CO-2                | Employ lighting techniques effectively in natural and artificial settings for still life, product and portraiture.           |
| CO-3                | Demonstrate the principles of aesthetics and composition that can be integrated creatively to produce storytelling contents. |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>BASICS OF WRITING</b>   |
| <b>Code</b>         | <b>18VCU03/ 19VCU03</b>   |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Understand the basic elements of media writing and editing styles.  |
| CO-2                | Acquire knowledge of different styles of writing to suit different media platforms.                                       |
| CO-3                | Demonstrate effective information gathering skills and techniques and develop stories for print, broadcast and new media. |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>PRACTICAL I - VISUAL ARTS</b>   |
| <b>Code</b>         | <b>18VCU04</b>  |
|                     | <b>On completion of the course, students would be able to</b>                               |
| CO-1                | Understand the fundamentals of visual arts with regard to aesthetics and communication art. |
| CO-2                | Apply the principles, techniques and aesthetics of art and design works.                    |
| CO-3                | Experiment, innovate and use intuition and imagination in producing works of art.           |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>ADVERTISING</b>  |
| <b>Code</b>         | <b>18VCU05</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Apply the principles and techniques of advertising to identify and respond to the objectives of clients.   |
| CO-2                | Understand the implications of current trends in advertising and promotion and use critical marketing factors that influence advertising decisions in the economy. |
| CO-3                | Have insight on techniques to produce ethical advertising content that achieves organizational goal and suit different media platforms.                            |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>MULTIMEDIA &amp; GRAPHICS</b>   |
| <b>Code</b>         | <b>18VCU06</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Identify concepts, techniques and tools for creating and editing interactive multimedia applications. |
| CO-2                | Demonstrate techniques and principles in animation, digitized sound and video control.                |
| CO-3                | Develop conceptual map of content for interactive multimedia instructional programs.                  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>PRACTICAL II - PHOTOGRAPHY</b>  |
| <b>Code</b>         | <b>18VCU08/ 19VCU08</b>   |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Develop conceptual, illustrative and journalistic image content.  |
| CO-2                | Apply lighting techniques effectively in natural and artificial settings for still life, product and portraiture.       |
| CO-3                | Employ the principles of aesthetics and composition that can be creatively integrated to produce storytelling contents. |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>AUDIO PRODUCTION TECHNIQUES</b>  |
| <b>Code</b>         | <b>18VCU09</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Demonstrate knowledge related to on-stage recording, off-stage recording and dubbing in audio content production.  |
| CO-2                | Develop basic proficiency in handling tools and techniques for production of audio content for broadcast programs. |
| CO-3                | Understand basic techniques in editing analog and digital audio.   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>BASICS OF SOUND OPTICS &amp; ILLUMINATION ENGINEERING</b> |
| <b>Code</b>         | <b>18VCU10</b>  |
|                     | <b>On completion of the course, students would be able to</b>         |
| CO-1                | Demonstrate the laws of waves   |
| CO-2                | Set required parameters.  |
| CO-3                | Rightly measure sound and light levels.                               |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>PRACTICAL III - VIDEO EDITING</b>  |
| <b>Code</b>         | <b>18VCU11</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Edit a video sequence to synchronize audio with it in the form of musical soundtrack/ sound or dialog. |
| CO-2                | Use key frames effectively to create titling and animation sequences for a digital video.              |
| CO-3                | Produce professional video content using digital non-linear editing techniques                         |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>PRACTICAL IV - GRAPHICS PRODUCTION</b>  |
| <b>Code</b>         | <b>18VCU12</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Apply graphic communication techniques to design, refine and produce materials for multiple contexts using digital production skills. |
| CO-2                | Design print content and create promotional materials using latest technologies.  |
| CO-3                | Create innovative layouts for webpage, newspaper and books.   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>TELEVISION PRODUCTION TECHNIQUES</b>              |
| <b>Code</b>         | <b>18VCU13</b>  |
|                     | <b>On completion of the course, students would be able to</b> |

|      |  |
|------|--|
| CO-1 | Work in single and multi camera set ups in production of various television shows.   |
| CO-2 | Demonstrate indoor and outdoor shooting and editing techniques using professional equipments and non-linear editing systems. |
| CO-3 | Evaluate holistic and component oriented broadcast and production practices  |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>SCRIPT WRITING</b>   |
| <b>Code</b>         | <b>18VCU14</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Conduct appropriate research to the structure a narrative and non-narrative audio-visual form with insightful details.                                   |
| CO-2                | Demonstrate the stages and structural elements of a screenplay with well-developed plot, characterization and settings.                                  |
| CO-3                | Develop scripts based on the nature of medium and audience, effectively research and analyze data from various sources for both fiction and non-fiction. |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>PRACTICAL – V - AUDIO PRODUCTION</b>   |
| <b>Code</b>         | <b>18VCU15</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Gain hands-on experience in the field of sound recording, sound effects gathering and digital audio editing.       |
| CO-2                | Develop proficiency with the tools and techniques available in production of audio content for broadcast programs. |
| CO-3                | Employ concepts and techniques to effective produce contents that are intellectual as well as creative.            |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>PRACTICAL – VI COMMERCIAL PRODUCTION</b> |
| <b>Code</b>         | <b>18VCU16</b>                                       |

|      |  |
|------|--|
|      | <b>On completion of the course, students would be able to</b>  |
| CO-1 | Gain hands-on experience in applying advertising strategies and techniques to create content that is objective oriented.             |
| CO-2 | Apply concepts of public communication to effectively employ skills in producing commercials for various organizations.              |
| CO-3 | Employ creative and intellectual techniques to generate ideas and produce materials to inform and persuade through broadcast medium. |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>CINEMATOGRAPHY</b>                                |
| <b>Code</b>         | <b>18VCU17</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Identify the elements on all videos and cinema.               |
| CO-2                | Separate and show 5C's element in films                       |
| CO-3                | Apply cinematographic theory knowledge during practicals.     |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Discipline Specific Elective – I<br/>FILM ANALYSIS</b>                            |
| <b>Code</b>         | <b>18VCU18A</b>  |
|                     | <b>On completion of the course, students would be able to</b>                        |
| CO-1                | Identify the role of visual and audio elements in interpretation of films.           |
| CO-2                | Analyze the films genres and style and influence of film movements on the same.      |
| CO-3                | Deconstruct and demonstrate modals and other film forms that constructs the meanings |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Discipline Specific Elective – I<br/>MEDIA STUDIES&amp; THEORIES</b> |
| <b>Code</b>         | <b>18VCU18B</b>   |
|                     | <b>On completion of the course, students would be able to</b>           |
| CO-1                | Relate to media theory pertaining to media content.                     |

|      |  |
|------|--|
| CO-2 | Analyze and interpret individual perceptions.                    |
| CO-3 | Specifically identify the implicit/explicit meanings of content. |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>PRACTICAL – VII - TELEVISION PRODUCTION</b>   |
| <b>Code</b>         | <b>18VCU19</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Effectively employ suitable lighting techniques in natural and artificial fields or studio set ups.                                       |
| CO-2                | Gain hands-on training in indoor and outdoor shooting and editing techniques using professional equipment and non-linear editing systems. |
| CO-3                | Evaluate holistic and component oriented broadcast and production practices.  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>PRACTICAL - VIII - COMPOSITING AND EDITING</b>                  |
| <b>Code</b>         | <b>18VCU20 / 20VCU20</b>  |
|                     | <b>On completion of the course, students would be able to</b>               |
| CO-1                | Add visual effects to the created video content.                            |
| CO-2                | Develop virtual reality elements and match these elements to video content. |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>PRACTICAL IX - FILM FESTIVAL</b>                    |
| <b>Code</b>         | <b>18VCU21</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Become an active viewer of world cinema.                        |
| CO-2                | Explain how we engage with the film form and construct meaning. |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Discipline Specific Elective – II<br/>MEDIA MANAGEMENT</b>   |
| <b>Code</b>         | <b>18VCU22A</b>   |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Develop an analytical perspective on media ownership and the importance of organizational behaviour in media organizations. |
| CO-2                | Demonstrate understanding of media economics including various forms of media revenues and sponsorship.                     |
| CO-3                | Employ techniques to plan, design, execute and manage an event efficiently  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Discipline Specific Elective – II<br/>PR &amp; EVENT MANAGEMENT</b>                        |
| <b>Code</b>         | <b>18VCU22B</b>   |
|                     | <b>On completion of the course, students would be able to</b>                                 |
| CO-1                | Create and conduct ethically sound and socially responsible public relations                  |
| CO-2                | Apply foundations of public communication as related to information, relation and persuasion. |
| CO-3                | Employ techniques to plan, design, execute and manage an event efficiently                    |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>PRACTICAL – X DIGITAL CINEMATOGRAPHY</b>          |
| <b>Code</b>         | <b>18VCU23</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Operate DSLR cameras.   |
| CO-2                | Skillfully optimize concepts into actual shots.               |
| CO-3                | Demonstrate, using available means, cinema look.              |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>PROJECT 1 - SHORT FILM (OR) DOCUMENTARY PRODUCTION</b>   |
| <b>Code</b>         | <b>18VCU24</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Gain experience working as a director, producer, cinematographer, sound artist, editor and actor on student productions. |
| CO-2                | Develop practical understanding of the most useful tools for non-fiction filmmaking/ documentaries.                      |
| CO-3                | Apply appropriate research methods to collect evidence and present arguments in the form of documentaries.               |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>PROJECT 2: PORTFOLIO PRODUCTION &amp; PRESENTATION</b>                                   |
| <b>Code</b>         | <b>18VCU25</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Design effective web portal to exhibit the works completed during the entire period of the programme |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>INTERNSHIP &amp; VIVA</b>   |
| <b>Code</b>         | <b>18VCU26</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Produce assignments adhering to professional standards in the field   |
| CO-2                | Develop a portfolio to meet the requirements of the field along with a list of references from the media firms they underwent internship. |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Generic Elective Course – Cluster – IV<br/>INTRODUCTION TO COMMUNICATION THEORIES</b>             |
| <b>Code</b>         | <b>18GECVCU</b>  |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Demonstrate communication process and develop understanding to theories and models of communication. |
| CO-2                | Understand news flow models.   |



Since 1947

# PSG College of Arts & Science Coimbatore – 641 014

## Programme: BSc Biotechnology

### Programme Outcomes

| Programme Outcomes |  |
|--------------------|--|
|                    | On completion of the programme, the student will be able to  |
| PO-1               | Become knowledgeable in the subject of Biotechnology and apply the principles of the same to the needs of the Employer / Institution / own Business or Enterprise. |
| PO-2               | Gain Analytical skills in the field/area of Basic and Applied Biotechnology  |
| PO-3               | Understand and appreciate professional ethics, community living and Nation Building initiatives  |
| PO-4               | Shall be a transformational leader in multifaceted longitudinal domains  |
| PO-5               | Develop strategies to identify and alleviate societal health   |
| PO-6               | Commensurate the analytical skills acquired to its relevant applications   |
| PO-7               | Shall be competent to handle industrial scale process and product quality assessment   |
| PO-8               | Translate the research impetus gained through education to SME's   |

### Programme Specific Outcomes

| Programme Specific Outcomes |  |
|-----------------------------|--|
|                             | On completion of the programme, the student will be able   |
| PSO-1                       | Apply the knowledge of Biotechnology in the domain of Agriculture / Medicine / Environment / Pharma Biotech                                |
| PSO-2                       | Solve the complex problems in the field of Biotechnology with an understanding of the societal, legal and cultural impacts of the solution |
| PSO-3                       | Create sustainable entrepreneurship ventures in Bio business   |
| PSO-4                       | Form a part of member in a team with right attitudes   |

### Course Outcomes

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>CELL BIOLOGY</b>                                  |
| <b>Code</b>         | <b>18BTU01</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Describe the fundamental principles of Cell biology           |
| CO-2                | Relate the structure of the cell and organelles to functions  |
| CO-3                | Correlate the cellular functions and the cell exterior        |
| CO-4                | Solve intricate issues which are essentially related to cell  |
| CO-5                | Connect cellular signaling to onset of cancer                 |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>ENZYMOLGY</b>   |
| <b>Code</b>         | <b>18BTU02</b>  |
|                     | <b>On completion of the course, students would be able to</b>                                     |
| CO-1                | Distinguish the fundamentals of enzyme properties, nomenclatures, characteristics and mechanisms. |
| CO-2                | Compare and comprehend methods for production, purification, characterization and of enzymes      |
| CO-3                | Calculate enzyme kinetic constants to interpret analytical data from enzyme assays.               |
| CO-4                | Describe the concepts of co-operative behavior, enzyme inhibition and allosteric regulation.      |
| CO-5                | Apply enzymes in benefit of human life.   |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>BASIC BIOCHEMISTRY &amp; ENZYME TECHNIQUES PRACTICAL</b> |
| <b>Code</b>         | <b>18BTU04</b>   |
|                     | <b>On completion of the course, students would be able to</b>        |
| CO-1                | Comprehend and understand biochemical reactions.                     |

|      |   |
|------|---|
| CO-2 | Predict enzyme role in biochemical reactions    |
| CO-3 | Relate the results with physiological condition |
| CO-4 | Get exposed to clinical laboratory application  |
| CO-5 | Get appraised for job openings                  |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>FUNDAMENTALS OF MICROBIOLOGY</b>   |
| <b>Code</b>         | <b>18BTU06</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Deploy methods of culturing, identification and characterization of microbes                                   |
| CO-2                | Use the various tools to study microbial cells   |
| CO-3                | Differentiate organisms based on the organelles present and would know the exact mechanism of each organelle   |
| CO-4                | Analyze the growth pattern of a microbial culture which could be used in the development of different products |
| CO-5                | Apply microbial systems to development of sustainable technologies.  |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>GENETICS</b>   |
| <b>Code</b>         | <b>18BTU07</b>   |
|                     | <b>On completion of the course, students would be able to</b>                    |
| CO-1                | Apply the law of probability to genetics   |
| CO-2                | Compare and contrast between numerical and structural aberrations of chromosome. |
| CO-3                | Predict the mode of inheritance of genetic disorders                             |
| CO-4                | Able to take a family history to construct and interpret a pedigree              |
| CO-5                | Use hardy Weinberg principle to explain microevolution                           |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Interdisciplinary Course<br/>DIAGNOSTIC BIOTECHNOLOGY</b> |
| <b>Code</b>         | <b>18BTU08</b>   |

|      | <b>On completion of the course, students would be able to</b> |
|------|---|
| CO-1 | Gain diagnostic skills  |
| CO-2 | Know to relate clinical interpretations.                      |
| CO-3 | Have an awareness in molecular diagnosis                      |
| CO-4 | Have basic knowledge on accreditation and quality control     |
| CO-5 | Provide an option in setting up a diagnostic lab              |

| <b>Course Title</b> | <b>Core</b>   |
|---------------------|---|
|                     | <b>INTRODUCTION TO MICROBIOLOGY AND GENETICS PRACTICAL</b>    |
| <b>Code</b>         | <b>18BTU09</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Deploy microscopic tools in the study of microbes             |
| CO-2                | Interpret Microbial techniques                                |
| CO-3                | Calculate CFU and sensitivity to antibiotics                  |
| CO-4                | Apply genetics technique                                      |
| CO-5                | Get exposed to microbial diagnostics tools                    |

| <b>Course Title</b> | <b>Interdisciplinary Course</b>  |
|---------------------|--|
|                     | <b>DIAGNOSTICS BIOTECHNOLOGY PRACTICAL</b>                             |
| <b>Code</b>         | <b>18BTU10</b>   |
|                     | <b>On completion of the course, students would be able to</b>          |
| CO-1                | Gain an understanding of the fundamentals of the Clinical Lab          |
| CO-2                | Integrate the clinical information with the underlying pathophysiology |
| CO-3                | Appreciate clinical significance of diagnostic laboratory need         |
| CO-4                | Exploit the basis for research integration                             |
| CO-5                | Getting an insight into molecular diagnosis                            |

| <b>Course Title</b> | <b>Core</b>   |
|---------------------|---|
|                     | <b>METABOLISM</b>   |
| <b>Code</b>         | <b>18BTU11</b>  |
|                     | <b>On completion of the course, students would be able to</b> |

|      |  |
|------|--|
| CO-1 | Recognize the different types of biochemical reactions/ pathways essential for life                              |
| CO-2 | Decipher the reason for the structure of DNA and RNA and why these molecules have different roles in the storage |
| CO-3 | Describe how enzymes work and know how to determine basic enzyme kinetics  |
| CO-4 | Comprehend the role of biochemistry in the practice of medicine and medical research                             |
| CO-5 | Relate the effect of temperature, pH, cofactors, and enzyme inhibitors can affect enzyme activity                |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>MOLECULAR BIOLOGY</b>  |
| <b>Code</b>         | <b>18BTU12</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Explain the structure- function relationships of DNA, RNA and proteins                                   |
| CO-2                | Explain how recent genomics and functional genomics advances are altering our views of molecular biology |
| CO-3                | Compare and contrast the mechanisms of gene expression in pro and eukaryotes                             |
| CO-4                | Apply molecular concepts to design of experiments  |
| CO-5                | Apply Molecular knowledge to understand and hypothesize complex problems                                 |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>MOLECULAR BIOLOGY PRACTICAL</b>                             |
| <b>Code</b>         | <b>18BTU14</b>  |
|                     | <b>On completion of the course, students would be able to</b>           |
| CO-1                | Accurately isolate nucleic content from various sources                 |
| CO-2                | Isolate and assess genome and proteome content of a cell                |
| CO-3                | Identify the presence of gene/ gene product from the isolate            |
| CO-4                | Design hypothesis/ experiment for isolation of biomolecules for cloning |
| CO-5                | Analyze and interpret the result both qualitatively and quantitatively. |

|               |             |
|---------------|-------------|
| <b>Course</b> | <b>Core</b> |
|---------------|-------------|

|              |   |
|--------------|---|
| <b>Title</b> | <b>IMMUNOLOGY</b>   |
| <b>Code</b>  | <b>18BTU15</b>  |
|              | <b>On completion of the course, students would be able to</b> |
| CO-1         | Explain the functioning of immune system                      |
| CO-2         | State the role of MHC in acquired immunity.                   |
| CO-3         | Distinguish Humoral and Cell mediated immunity.               |
| CO-4         | Infer the type of infection and causative organism.           |
| CO-5         | Develop a new strategy for diagnostic kit development.        |

|               |  |
|---------------|--|
| <b>Course</b> | <b>Core</b>  |
| <b>Title</b>  | <b>RECOMBINANT DNA TECHNOLOGY</b>  |
| <b>Code</b>   | <b>18BTU16</b>   |
|               | <b>On completion of the course, students would be able to</b>              |
| CO-1          | Have Technical knowhow on manipulating genes and genomes                   |
| CO-2          | Will have knowledge to construct vectors and apply them for cloning        |
| CO-3          | Will be competent in handling PCR and related techniques                   |
| CO-4          | Will be proficient in conducting genetic engineering experiments           |
| CO-5          | Will be competent enough to handle recombinant strains at industrial scale |

|               |   |
|---------------|---|
| <b>Course</b> | <b>Core</b>   |
| <b>Title</b>  | <b>IMMUNOLOGY AND rDNA TECHNOLOGY PRACTICAL</b>               |
| <b>Code</b>   | <b>18BTU18</b>  |
|               | <b>On completion of the course, students would be able to</b> |
| CO-1          | Handle vectors for cloning                                    |
| CO-2          | Use immunological techniques for protein detection            |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>ANALYTICAL TECHNIQUES</b>                         |
| <b>Code</b>         | <b>18BTU19</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Have strong analytical skills                                 |
| CO-2                | Will have strong skills in basics of instrumentation          |
| CO-3                | Will be proficient in handling of instruments                 |
| CO-4                | Develop SOP for instruments                                   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>GENOMICS &amp; PROTEOMICS</b>                     |
| <b>Code</b>         | <b>18BTU20</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Analyze the gene arrangements on chromosomes                  |
| CO-2                | Comprehend the gene-protein relationship                      |
| CO-3                | Interpret the role of proteins in metabolomics                |
| CO-4                | Apply the structure-function relationship of proteins         |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>INTRODUCTION TO BIOINFORMATICS PRACTICAL</b>   |
| <b>Code</b>         | <b>18BTU21</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Use general and specialized databases for information retrieval.   |
| CO-2                | Apply principles and algorithms for sequence analysis  |
| CO-3                | Use hidden Markov models for gene prediction.  |
| CO-4                | Relate sequence, structure and function to understand levels of structural organization of macromolecules. |
| CO-5                | Devise solutions to basic bioinformatics problems  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>ENVIRONMENTAL BIOTECHNOLOGY</b>                             |
| <b>Code</b>         | <b>18BTU22</b>  |
|                     | <b>On completion of the course, students would be able to</b>           |
| CO-1                | Promote environmental restoration                                       |
| CO-2                | Apply new biological technologies for mitigating environmental problems |
| CO-3                | Venture into ecofriendly entrepreneurship                               |
| CO-4                | Have a knowledge of environmental laws and regulations                  |
| CO-5                | Exploit the market for environmental biotechnology                      |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>ENVIRONMENTAL AND INDUSTRIAL BIOTECHNOLOGY<br/>PRACTICAL</b>  |
| <b>Code</b>         | <b>18BTU23</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Successfully establish and maintain microbial cultures with good viability for enzyme production.                       |
| CO-2                | To impart the skills in Enzyme Kinetics with current trends in the use of enzyme in various biotechnological processes. |
| CO-3                | Account for common sampling techniques for inorganic and organic compounds in soil and water.                           |
| CO-4                | Evaluate the potential for biodegradation of organic pollutants using relevant microbiological processes.               |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Discipline Specific Elective - I<br/>INDUSTRIAL &amp; MICROBIAL TECHNOLOGY</b>   |
| <b>Code</b>         | <b>18BTU24A</b>   |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Have the basic knowledge of biological processes, cellular metabolism, and microbial kinetic  |
| CO-2                | Apply the concepts, tools and techniques of various bioprocesses and their applications   |
| CO-3                | Have in depth knowledge of the principle, techniques and applications of enrichment and extraction operations and product isolation |
| CO-4                | Reuse of biowaste as substrate for novel product development  |
| CO-5                | Establish entrepreneurial ventures  |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Discipline Specific Elective - I<br/>BIOFUEL AND BIOREMEDIATION</b> |
| <b>Code</b>         | <b>18BTU24B</b>  |
|                     | <b>On completion of the course, students would be able to</b>          |
| CO-1                | Develop strategies for effective waste management                      |
| CO-2                | Contribute to Smart cities   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>ANIMAL BIOTECHNOLOGY</b>  |
| <b>Code</b>         | <b>18BTU25 / 20BTU26</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Identify factors responsible for reproductive disorders   |
| CO-2                | Apply the basic concepts of a cell and its role in development and formation of an embryo                 |
| CO-3                | Isolate and culture animal cells  |
| CO-4                | Use current biotechnology tools in relation to vaccine development, therapeutics and improved diagnostics |
| CO-5                | Employ culturing of stem cells for potential applications   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>BIOPHARMACEUTICALS</b>                            |
| <b>Code</b>         | <b>18BTU26 / 20BTU27</b>                                      |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Have knowledge on drug use ,dose and dosage                   |
| CO-2                | Acquire basic knowledge involved in drug preparation          |
| CO-3                | Use classical treatment processes                             |
| CO-4                | Integrate the use of past and present drug treatment          |
| CO-5                | Distinguish conventional lab and proficient lab with good GLP |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>APPLIED BIOTECHNOLOGY AND IPR, BIOETHICS</b>              |
| <b>Code</b>         | <b>18BTU27 / 20BTU28</b>  |
|                     | <b>On completion of the course, students would be able to</b>         |
| CO-1                | Develop a sustainable agricultural process                            |
| CO-2                | Productively translate research concepts in an industrial perspective |
| CO-3                | Demonstrate the applications of Nanoparticles                         |
| CO-4                | Explain the concepts of Tissue engineering                            |
| CO-5                | Imbibe high ethical values and practices                              |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>BUSINESS BIOTECHNOLOGY</b>  |
| <b>Code</b>         | <b>18BTU28/ 20BTU29</b>   |
|                     | <b>On completion of the course, students would be able to</b>                                     |
| CO-1                | Be a responsible biotechnologists who can work in an interdisciplinaryframework of related fields |
| CO-2                | Conduct thyself in a professional and ethical fashion   |
| CO-3                | Imbibe self management, interpersonal and team work skills  |
| CO-4                | Effectively manage time with prudent decision making approach                                     |
| CO-5                | Set up rewarding business ventures  |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>PLANT AND ANIMAL BIOTECHNOLOGY PRACTICAL</b>   |
| <b>Code</b>         | <b>18BTU29/20BTU30</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Familiarize students to the basic principles of plant tissue culture and to expose them to its applications  |
| CO-2                | Train students disinfect and place into culture suitable explants capable of being cultured and multiplied, make culture medium from reagent grade chemicals and stock solutions, routinely transfer cultures without contamination. |
| CO-3                | Acquaint the students with basic concepts of isolation and characterization of bioactive components from suspension culture.   |
| CO-4                | Develops the knowledge on application of plant cell and tissue culture techniques and its contribution to global sustainability.   |
| CO-5                | Impart knowledge on artificial seed preparation and long term germplasm storage.   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Discipline Specific Elective - II<br/>PLANT TISSUE CULTURE AND TRANSGENIC TECHNOLOGY</b> |
| <b>Code</b>         | <b>18BTU30A/20BTU31A</b>  |
|                     | <b>On completion of the course, students would be able to</b>                               |
| CO-1                | Understand the applications of plant tissue culture   |
| CO-2                | Implement genetic engineering principles in developing disease resistant transgenic plants  |
| CO-3                | Have knowledge on vector construct for transformation                                       |
| CO-4                | Decipher the use of plant markers in studying alleles                                       |
| CO-5                | Seek for employability in PTC labs and industries   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Discipline Specific Elective - II<br/>AGRI BIOTECHNOLOGY</b> |
| <b>Code</b>         | <b>18BTU30B/20BTU31B</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Establish sustainable cultivation of mushrooms.                 |
| CO-2                | Develop organic Farm.   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Generic Elective Course<br/>SUCCESS STORIES OF BIOTECHNOLOGY</b> |
| <b>Code</b>         | <b>18GECBTU</b>   |
|                     | <b>On completion of the course, students would be able to</b>       |
| CO-1                | Relate the day-today scientific procedures                          |
| CO-2                | Identify the importance of indigenous therapeutics                  |
| CO-3                | Critically correlate biotechnology and diagnostic strategies        |



Since 1947

## PSG College of Arts & Science Coimbatore – 641 014

### Programme: BSc Mathematics with CA

#### Programme Outcomes

|      | <b>On completion of the programme, the student will be able to</b>  |
|------|---|
| PO-1 | Become knowledgeable in the subject of Mathematics with Computer Applications and apply the principles of the same to the needs of the Employer/ Institution/ own Business or Enterprise.                               |
| PO-2 | Gain Analytical skills in the field/area of Mathematics with Computer Applications.   |
| PO-3 | Understand and appreciate professional ethics, community living and National Building initiatives.  |
| PO-4 | Make the foundation strong in basic manipulative skills; develop an understanding of the underlying unifying structures of mathematics.   |
| PO-5 | Develop and understand the value of proof, the single factor that distinguishes Mathematics from all other disciplines, and will demonstrate proficiency in writing and understanding proofs.                           |
| PO-6 | Investigate and apply Mathematical problems and solutions in a variety of contexts related to science, technology, business and industry, and illustrate these solutions using symbolic, numeric, or graphical methods. |
| PO-7 | Ability to understand and analyze a given real-world problem and propose feasible computing solutions.  |
| PO-8 | Ability to achieve the computing techniques through programming for various Mathematical problems that arise in several areas.  |

#### Programme Specific Outcomes

|       | <b>On completion of the programme, the student will be able</b>            |
|-------|--|
| PSO-1 | Apply the knowledge of Mathematics in the domain of Computer Applications. |
| PSO-2 | Solve the complex problems in the field of Mathematics and Computer        |

|       |   |
|-------|---|
|       | Applications with an understanding of the societal, legal and cultural impacts of the solution.   |
| PSO-3 | Build up the thoughts of Mathematics and utilizations the innovation to settle the different Mathematics problems that emerge in true with a specific end goal to serve the nation. |
| PSO-4 | Form a part of member in a team with right attitudes.   |

### Course Outcomes

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>CALCULUS</b>  |
| <b>Code</b>         | <b>18MCU01</b>  |
|                     | <b>On completion of the course, students would be able to</b>                                   |
| CO-1                | Perform the differentiation and integration of vector functions.                                |
| CO-2                | Work with functions of several variables.   |
| CO-3                | Find the maximum and minimum values of the functions of several variables.                      |
| CO-4                | Understand the concepts of double integrals with applications such as to find the surface area. |
| CO-5                | Understand the concepts of triple integrals.  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>ORDINARY DIFFERENTIAL EQUATIONS AND LAPLACE<br/>TRANSFORMS</b>  |
| <b>Code</b>         | <b>18MCU02</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Work with first order differential equations and to work with modeling the real world problems such as population models. |
| CO-2                | Solve higher order differential equations.  |
| CO-3                | Understand the modeling concepts using higher order equations such as electrical circuits.                                |

|      |  |
|------|--|
| CO-4 | Work with Laplace Transforms which in turn uses to convert the differential equations into algebraic equations.  |
| CO-5 | Work with Inverse Laplace Transforms which in turn helps to convert the solution of an algebraic equation to obtain the original solution of differential equations. |
| CO-6 | Understand the applications of system of linear differential equations.  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>MS OFFICE PRACTICAL</b>   |
| <b>Code</b>         | <b>18MCU03</b>  |
|                     | <b>On completion of the course, students would be able to</b>                         |
| CO-1                | Create documents using the tools available in MS Word.                                |
| CO-2                | Enter and make calculations in data at MS Excel, also represent the data graphically. |
| CO-3                | Work with MS Access.  |
| CO-4                | Make presentations using others components including in it.                           |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>ANALYTICAL GEOMETRY OF 3D AND VECTOR CALCULUS</b>                   |
| <b>Code</b>         | <b>18MCU05</b>  |
|                     | <b>On completion of the course, students would be able to</b>                   |
| CO-1                | Form planes, lines and spheres in 3 dimensional spaces,                         |
| CO-2                | Understand the interaction of plane, line and sphere between one among          |
| CO-3                | Perform the line and surface integrals, and                                     |
| CO-4                | Understand the Green's theorem, the Stoke's theorem and the Divergence theorem. |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>PROGRAMMING IN C</b>  |
| <b>Code</b>         | <b>18MCU06</b>  |
|                     | <b>On completion of the course, students would be able to</b>               |
| CO-1                | Understand the operators and expression in concepts.                        |
| CO-2                | Understand the Input, output and control statements.                        |
| CO-3                | Understand the applications functions, program structure and array in C.    |
| CO-4                | Execute the concept of strings, pointers structures and unions in Programs. |
| CO-5                | Understand the concept of file handling in C.                               |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>C PROGRAMMING PRACTICAL</b>                                     |
| <b>Code</b>         | <b>18MCU07</b>  |
|                     | <b>On completion of the course, students would be able to</b>               |
| CO-1                | Work with C language components.  |
| CO-2                | Execute the concept of strings, pointers structures and unions in programs. |
| CO-3                | Understand the concept of file handling in C.                               |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>MATHEMATICS</b>  |
| <b>Code</b>         | <b>18ITU09/18CAU08</b>   |
|                     | <b>On completion of the course, students would be able to</b>                      |
| CO-1                | Find rank of a matrix and solve simultaneous Linear Algebraic Equations.           |
| CO-2                | Solve ODE and PDE using different methods.   |
| CO-3                | Recall the different methods used to solve simultaneous Algebraic Equations.       |
| CO-4                | Use interpolation formula to obtain difference table and construct the Polynomial. |
| CO-5                | Apply various methods of Numerical Differentiation and Integration.                |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>MATHEMATICS-I</b>  |
| <b>Code</b>         | <b>18CMU03/18CTU03</b>   |
|                     | <b>On completion of the course, students would be able to</b>                      |
| CO-1                | Find rank of a matrix and solve simultaneous Linear Algebraic Equations.           |
| CO-2                | Solve different methods of ODE and PDE   |
| CO-3                | Recall the different methods used to solve simultaneous Algebraic Equations.       |
| CO-4                | Use interpolation formula to obtain difference table and construct the Polynomial. |
| CO-5                | Apply various methods of Numerical Differentiation and Integration.                |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>MATHEMATICS-II</b>                                |
| <b>Code</b>         | <b>18CMU08/18CTU08</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Understand logical Connectives and Compound Proposition.      |
| CO-2                | Demonstrate various types of relations.                       |
| CO-3                | Differentiate between a relation and a function.              |
| CO-4                | Understand different types of graph.                          |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>PARTIAL DIFFERENTIAL EQUATIONS AND FOURIER SERIES</b>     |
| <b>Code</b>         | <b>18MCU09</b>  |
|                     | <b>On completion of the course, students would be able to</b>         |
| CO-1                | Form and solve PDEs.  |
| CO-2                | Understand the applications especially in Physics.                    |
| CO-3                | Work with Fourier Series and to express the Half Range Expansions.    |
| CO-4                | Work with Fourier Transforms.   |
| CO-5                | Understand the applications of Fourier Series and Transforms in PDEs. |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>STATICS</b>                                       |
| <b>Code</b>         | <b>18MCU10 / 20MCU10</b>                                      |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Understand the concept of Forces acting at a point.           |
| CO-2                | Work with the action of Parallel forces and Moments.          |
| CO-3                | Gain knowledge in Couples and Friction.                       |
| CO-4                | Understand the concept of Coplanar forces.                    |
| CO-5                | Gain knowledge in Centre of Gravity and Virtual work.         |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>DATA STRUCTURES USING C++</b>                            |
| <b>Code</b>         | <b>18MCU11/20MCU11</b>   |
|                     | <b>On completion of the course, students would be able to</b>        |
| CO-1                | Understand the concepts of OOPs, Functions in C++, Class and Objects |
| CO-2                | Understand the concepts Constructor, destructor, Pointers and arrays |
| CO-3                | Understand the basic concept of Data Structures.                     |
| CO-4                | Understand the concept of Sorting and Searching                      |
| CO-5                | Understand the concept of Stack and Queue.                           |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>DATA STRUCTURES PRACTICAL</b>                                 |
| <b>Code</b>         | <b>18MCU12/20MCU12</b>  |
|                     | <b>On completion of the course, students would be able to</b>             |
| CO-1                | Work with C++ language components   |
| CO-2                | Execute the concept of sorting and searching                              |
| CO-3                | Understand the concept of Queuing and Stack operations using linked list. |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>NUMERICAL METHODS</b>  |
| <b>Code</b>         | <b>18MCU13</b>   |
|                     | <b>On completion of the course, students would be able to</b>                          |
| CO-1                | Demonstrate how numerical techniques can be applied in real-life situations.           |
| CO-2                | Formulate the natural problems and find the ways to solve it.                          |
| CO-3                | Know the methods of numerical integration and differentiation.                         |
| CO-4                | Provide a foundation for further study of numerical analysis and scientific computing. |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>ABSTRACT ALGEBRA</b>   |
| <b>Code</b>         | <b>18MCU15</b>   |
|                     | <b>On completion of the course, students would be able to</b>                              |
| CO-1                | Understand the algebraic structures with one and two binary operations (groups and rings). |
| CO-2                | Perform group actions with the help of morphisms.  |
| CO-3                | Perform actions on finite groups.  |
| CO-4                | Perform ring actions.  |
| CO-5                | Form a field with the help of any integral domain.   |
| CO-6                | Understand Euclidean rings.  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>SEQUENCE, SERIES AND TRIGONOMETRY</b>                             |
| <b>Code</b>         | <b>18MCU16</b>  |
|                     | <b>On completion of the course, students would be able to</b>                 |
| CO-1                | Familiar about series formation and relationship between sequence and series. |
| CO-2                | Expertise in testing series for convergence and divergence.                   |
| CO-3                | Solve and to represent the functions as power series.                         |
| CO-4                | The basic terminology of trigonometrical functions.                           |
| CO-5                | Solve the logarithms of complex quantities.                                   |

|               |             |
|---------------|-------------|
| <b>Course</b> | <b>Core</b> |
|---------------|-------------|

|              |   |
|--------------|---|
| <b>Title</b> | <b>JAVA PROGRAMMING</b>                                       |
| <b>Code</b>  | <b>18MCU17</b>  |
|              | <b>On completion of the course, students would be able to</b> |
| CO-1         | Understand the object oriented concepts.                      |
| CO-2         | Understand the Java language components.                      |
| CO-3         | Work with components of Java library.                         |
| CO-4         | Have knowledge in designing AWT applications.                 |
| CO-5         | Understand the software developments.                         |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>JAVA PROGRAMMING PRACTICAL</b>                    |
| <b>Code</b>         | <b>18MCU18</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Work with Java language components.                           |
| CO-2                | Work with Java library components.                            |
| CO-3                | Work with AWT Components.                                     |
| CO-4                | Work with Swing Components.                                   |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>DYNAMICS</b>   |
| <b>Code</b>         | <b>18MCU19</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Know the application to the solution of various problems involving the rectilinear and curvilinear motions of particles.                             |
| CO-2                | Become proficient in the linear and angular momentum and its application to the analysis of the motion of particles.                                 |
| CO-3                | Formulate the problems of space mechanics using the application of the principles of conservation of energy and of conservation of angular momentum. |
| CO-4                | Gain concept of simple harmonic motion and their engineering applications.   |

|                     |                               |
|---------------------|-------------------------------|
| <b>Course Title</b> | <b>Core<br/>REAL ANALYSIS</b> |
| <b>Code</b>         | <b>18MCU22</b>                |

|      | <b>On completion of the course, students would be able to</b>  |
|------|--|
| CO-1 | Understand the basic concepts of Topology such as countability, compactness, perfectness, connectedness. |
| CO-2 | Identify the metric spaces.  |
| CO-3 | Work with numerical sequences and series in metric spaces.   |
| CO-4 | Examine the continuity and find the limits in metric spaces.   |
| CO-5 | Distinguish between the limits at infinity and infinite limits.  |
| CO-6 | Understand the concept of differentiability and integrability.   |

| <b>Course Title</b> | <b>Core<br/>LINEAR ALGEBRA</b>   |
|---------------------|--|
| <b>Code</b>         | <b>18MCU23</b>   |
|                     | <b>On completion of the course, students would be able to</b>                |
| CO-1                | Identify Vector spaces with its basis, the independent set of vectors in it. |
| CO-2                | Induce a subspace spanned by a set of vectors.                               |
| CO-3                | Generate a set of orthogonal and orthonormal vectors from any basis.         |
| CO-4                | Induce matrices via linear transformations.                                  |
| CO-5                | Understand the fundamental operations on Matrices.                           |
| CO-6                | Find the Eigen vectors and Transformations.                                  |

| <b>Course Title</b> | <b>Core<br/>ADVANCED DIFFERENTIAL EQUATIONS</b>                      |
|---------------------|--|
| <b>Code</b>         | <b>18MCU24</b>   |
|                     | <b>On completion of the course, students would be able to</b>        |
| CO-1                | Understand the matrix techniques to solve the linear system of ODEs. |
| CO-2                | Obtain the series solutions of several ODEs.                         |
| CO-3                | Analyze the stability of ODEs and its applications.                  |
| CO-4                | Solve the compatible systems in PDEs.                                |
| CO-5                | Recognize and solve the nonlinear PDEs.                              |

| <b>Course Title</b> | <b>Core<br/>DATABASE MANAGEMENT SYSTEMS</b> |
|---------------------|---|
|---------------------|---|

|             |  |
|-------------|--|
| <b>Code</b> | <b>18MCU25</b>   |
|             | <b>On completion of the course, students would be able to</b>  |
| CO-1        | Have knowledge in basic concepts and the architecture of database management systems, data models, relational database theory and the features of SQL queries. |
| CO-2        | Master the sound design principles of logical design by using ER modeling, normalization concepts and Relational Model.  |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>DATABASE MANAGEMENT SYSTEMS PRACTICAL</b>  |
| <b>Code</b>         | <b>18MCU26</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Gain knowledge in creating tables in SQL.  |
| CO-2                | Perform the several operations on Tables starting from basic set operations to creating views, triggers and users. |
| CO-3                | Build a bridge between C Programming and Database via ODBC.  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Discipline Specific Elective - I<br/>ASTRONOMY</b>         |
| <b>Code</b>         | <b>18MCU27A</b>   |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Understand the terms and notions in Astronomy.                |
| CO-2                | Calculate the length of the day.                              |
| CO-3                | Identify the parallax.  |
| CO-4                | Make predictions based on Equation of time.                   |
| CO-5                | Analyze the eclipses.   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Discipline Specific Elective - I<br/>NUMBER THEORY</b>     |
| <b>Code</b>         | <b>18MCU27B</b>   |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Solve divisibility problems.                                  |
| CO-2                | Solve congruence problems.                                    |

|      |  |
|------|--|
| CO-3 | Work with prime power moduli, primitive roots.             |
| CO-4 | Work with residues in number theory.                       |
| CO-5 | Apply the theories and formulae to solve various problems. |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>COMPLEX ANALYSIS</b>                              |
| <b>Code</b>         | <b>18MCU29</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Identify and construct analytic functions.                    |
| CO-2                | Use various theorems to evaluate complex integrals.           |
| CO-3                | Develop Taylor and Laurent Series of several functions.       |
| CO-4                | Identify poles and residues.                                  |
| CO-5                | Evaluate improper integrals.                                  |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>OPERATIONS RESEARCH</b>  |
| <b>Code</b>         | <b>18MCU30</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Able to solve linear programming problem.  |
| CO-2                | Understand the mathematical tools to solve optimization problems.  |
| CO-3                | Able to analyze economic situations using game theoretic techniques.                                       |
| CO-4                | Make the students to know how to compute the critical path and the project completion time using PERT/CPM. |
| CO-5                | Know about models in queueing theory.  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>ADVANCED MATHEMATICAL STATISTICS</b>                      |
| <b>Code</b>         | <b>18MCU31</b>  |
|                     | <b>On completion of the course, students would be able to</b>         |
| CO-1                | Recognize multidimensional random variables.                          |
| CO-2                | Work with various probability distributions.                          |
| CO-3                | Identify the purpose of various limit theorems in Probability theory. |

|      |  |
|------|--|
| CO-4 | Understand the concepts of Stochastic process. |
|------|--|

|               |   |
|---------------|---|
| <b>Course</b> | <b>Core</b>   |
| <b>Title</b>  | <b>DISCRETE MATHEMATICS AND GRAPH THEORY</b>                      |
| <b>Code</b>   | <b>18MCU32</b>  |
|               | <b>On completion of the course, students would be able to</b>     |
| CO-1          | Understand various Laws and Implications in Mathematical Logic.   |
| CO-2          | Demonstrate various valid formulas in Predicates and Quantifiers. |
| CO-3          | Differentiate between a Relation and a Function.                  |
| CO-4          | Understand different types of Graph.                              |

|               |   |
|---------------|---|
| <b>Course</b> | <b>Discipline Specific Elective - II</b>                      |
| <b>Title</b>  | <b>MATLAB AND LaTeX</b>                                       |
| <b>Code</b>   | <b>20MCU33A</b>   |
|               | <b>On completion of the course, students would be able to</b> |
| CO-1          | Use arithmetic operations, display formats in MATLAB.         |
| CO-2          | Deal the Matrix operations in MATLAB.                         |
| CO-3          | Learn Function Files and Relational operators of MATLAB.      |
| CO-4          | The basics of LaTeX file.                                     |
| CO-5          | Use the variety formats of LaTeX file.                        |

|               |   |
|---------------|---|
| <b>Course</b> | <b>Discipline Specific Elective - II</b>                      |
| <b>Title</b>  | <b>DATA ANALYTICS AND R PROGRAMMING</b>                       |
| <b>Code</b>   | <b>18MCU33B</b>   |
|               | <b>On completion of the course, students would be able to</b> |
| CO-1          | Represent the vectors, Matrices and arrays in R.              |
| CO-2          | Do operations on Lists and Data Frames.                       |
| CO-3          | Know the structure of R.                                      |
| CO-4          | Work out elementary math functions and oops concepts.         |
| CO-5          | Basic knowledge about Graphics in R.                          |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Discipline Specific Elective - II<br/>MATLAB AND LaTeX PRACTICAL</b> |
| <b>Code</b>         | <b>18MCU34A</b>   |
|                     | <b>On completion of the course, students would be able to</b>           |
| CO-1                | Work with various commands of MATLAB.                                   |
| CO-2                | Execute the concept of vectors and control statements.                  |
| CO-3                | Understand the concept of packages and different plots.                 |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Discipline Specific Elective - I<br/>R PROGRAMMING PRACTICAL</b> |
| <b>Code</b>         | <b>18MCU34B</b>   |
|                     | <b>On completion of the course, students would be able to</b>       |
| CO-1                | Work with R language components.                                    |
| CO-2                | Execute the concept of vectors and control statements.              |
| CO-3                | Understand the concept of packages and different plots.             |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>MATHEMATICS-I</b>   |
| <b>Code</b>         | <b>18SSPO3</b>  |
|                     | <b>On completion of the course, students would be able to</b>                     |
| CO-1                | Find rank of a matrix and solve simultaneous Linear Algebraic Equations.          |
| CO-2                | Solve ODE and PDE using different methods.  |
| CO-3                | Recall the different methods used to solve simultaneous Algebraic Equations.      |
| CO-4                | Use interpolation formula to obtain difference table and construct the polynomial |
| CO-5                | Apply various methods of Numerical Differentiation and Integration.               |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>MATHEMATICS-II</b>  |
| <b>Code</b>         | <b>18SSP11</b>  |
|                     | <b>On completion of the course, students would be able to</b>                     |
| CO-1                | Understand the concepts of equivalence formulas and tautological implications.    |
| CO-2                | Work with normal forms.   |
| CO-3                | Understand the mathematical tools that are needed to solve optimization problems. |
| CO-4                | Model the problems in computer science using graphs and trees.                    |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>MATHEMATICS</b>   |
| <b>Code</b>         | <b>18COU03/18COC03/18PAU04/18COE03/18CRM03/18AFU03/<br/>18FTU03/18FSU03/18CBI03</b> |
|                     | <b>On completion of the course, students would be able to</b>                       |
| CO-1                | Understand the Simple interest and Compound interest concepts.                      |
| CO-2                | Understand the applications of Matrix concepts.                                     |
| CO-3                | Understand the applications of differentiation in business.                         |
| CO-4                | Understand the uses in Economics.   |
| CO-5                | Understand the concept of linear programming problem.                               |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>MATHEMATICS</b>                                    |
| <b>Code</b>         | <b>18CSU03B</b>  |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Understand the Simple interest and Compound interest concepts. |
| CO-2                | Understand the applications of Matrix concepts.                |
| CO-3                | Understand the applications of differentiation in business.    |
| CO-4                | Understand the uses in Economics.                              |
| CO-5                | Understand the concept of linear programming problem.          |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>MATHEMATICS FOR LIFE SCIENCES</b> |
|---------------------|---|

|             |   |
|-------------|---|
| <b>Code</b> | <b>18MBU15</b>  |
|             | <b>On completion of the course, students would be able to</b>                           |
| CO-1        | Work with the concepts of Differential Equations via analytic and numerical techniques. |
| CO-2        | Understand the applications of the above in some sciences.                              |
| CO-3        | Apply the mathematical skills in life science concepts.                                 |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>MATHEMATICAL TECHNIQUES FOR BUSINESS ANALYTICS</b>                |
| <b>Code</b>         | <b>18CBA04</b>  |
|                     | <b>On completion of the course, students would be able to</b>                 |
| CO-1                | Know the idea of matrix and will do the input output analysis.                |
| CO-2                | Understand the concept set theory.  |
| CO-3                | Apply the concept of analytic geometry to work out the Break – even analysis. |
| CO-4                | Understand the various strategies of commercial arithmetic.                   |
| CO-5                | To identify the nature of functions.  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>OPTIMIZATION TECHNIQUES</b>   |
| <b>Code</b>         | <b>18CBA08</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Know the basics of operations research.   |
| CO-2                | Demonstrate the real time problems in to Linear Programming problem and will solve the LPP using optimization techniques. |
| CO-3                | Solve the game theory problems.   |
| CO-4                | Will familiarize with the methods of network analysis problems.   |
| CO-5                | Have the knowledge of solving the sequencing problem.   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>MATHEMATICAL STRUCTURES</b>                       |
| <b>Code</b>         | <b>19CAP12</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Understand logical Connectives and Compound Proposition.      |

|      |  |
|------|--|
| CO-2 | Differentiate relation and a function.   |
| CO-3 | Apply numerical methods to obtain approximate solutions for mathematical problems. |
| CO-4 | Understand the concept of Game Theory.   |
| CO-5 | Analyse network construction for real life problems.                               |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>MATHEMATICS FOR BUSINESS PROCESS</b>                     |
| <b>Code</b>         | <b>19BPU03</b>   |
|                     | <b>On completion of the course, students would be able to</b>        |
| CO-1                | Understand the Simple interest and Compound interest concepts.       |
| CO-2                | Test the consistency of the system of linear equations and solve it. |
| CO-3                | Find the Eigen values, Eigen vectors and inverse of a given matrix.  |
| CO-4                | Understand the applications of differentiation in business.          |
| CO-5                | Understand the uses in Economics.                                    |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>MATHEMATICAL FOUNDATION FOR DATA SCIENCE</b>                     |
| <b>Code</b>         | <b>19DAU03</b>   |
|                     | <b>On completion of the course, students would be able to</b>                |
| CO-1                | Find the derivative, maximum and minimum values of a function.               |
| CO-2                | Evaluate the definite integrals and find area between curves.                |
| CO-3                | Recall the different methods used to solve simultaneous algebraic equations. |
| CO-4                | Use interpolation formula to construct the polynomial.                       |
| CO-5                | Apply various methods of numerical Differentiation and Integration.          |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>DISCRETE STRUCTURES &amp; GRAPH THEORY</b>                            |
| <b>Code</b>         | <b>19DAU08</b>  |
|                     | <b>On completion of the course, students would be able to</b>                     |
| CO-1                | Understand the concepts of equivalence formulas.                                  |
| CO-2                | Work with normal forms.   |
| CO-3                | Understand the mathematical tools that are needed to solve optimization problems. |
| CO-4                | Model the problems in computer science using graphs and trees.                    |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>LINEAR ALGEBRA</b>   |
| <b>Code</b>         | <b>19DAU15</b>   |
|                     | <b>On completion of the course, students would be able to</b>                  |
| CO-1                | Understand the concept of Subspaces, Linear Transformation and Span of a set.  |
| CO-2                | Work with Basis, Dimension and to find Rank & Nullity.                         |
| CO-3                | Understand Inner Product Spaces.   |
| CO-4                | Find Inverse of a Matrix & Rank of a Matrix by elementary transformations.     |
| CO-5                | Solve Simultaneous Linear Equations and to find Eigenvalues and Eigen vectors. |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>MATHEMATICAL STRUCTURES</b>   |
| <b>Code</b>         | <b>19NMB11</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Find Rank of a matrix and Solve simultaneous linear algebra equation.   |
| CO-2                | Predict the behavior of the functions and at particular instances.  |
| CO-3                | Apply various methods of numerical Differentiation and Integration, when the behavior of the exact function is not known. |
| CO-4                | Analyse network construction for real life problems.  |
| CO-5                | Expose the basic characteristic features of a queuing system and acquire skills in analyzing queuing models.              |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>MATHEMATICS FOR BUSINESS</b>                      |
| <b>Code</b>         | <b>19BSB10</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Understand the concept of simple and compound interest.       |
| CO-2                | Understand the concept of discounting on bills.               |
| CO-3                | Understand the concept of transportation problems.            |
| CO-4                | Understand the concept of Game Theory.                        |
| CO-5                | Understand the concept of Queueing Theory.                    |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Generic Elective Course - Cluster - IV<br/>QUANTITATIVE APTITUDE</b> |
| <b>Code</b>         | <b>18GECCMU</b>   |
|                     | <b>On completion of the course, students would be able to</b>           |
| CO-1                | Face competitive exams  |
| CO-2                | Understand the tricks and usage Mathematics in real time situations     |



Since 1947

# PSG College of Arts & Science Coimbatore – 641 014

## Programme: BSc Information Technology

### Programme Outcomes

|      | <b>On completion of the programme, the student will be able to</b>  |
|------|---|
| PO-1 | Become knowledgeable in the subject of Information Technology and apply the principles of the same to the needs of the Employer/ Institution /own Business or Enterprise. |
| PO-2 | Gain Analytical skills in the field/area of Industries and Business   |
| PO-3 | Understand and appreciate professional ethics, community living and Nation Building initiatives.  |
| PO-4 | Understand the impact of professional engineering solutions in Societal and environmental contexts and demonstrate knowledge and need for sustainable development.        |
| PO-5 | Apply knowledge of mathematics, science, engineering fundamentals and an engineering specialization to the solution of complex engineering problems.                      |
| PO-6 | Analyze the local and global impact of computing on individuals, organizations and society.   |
| PO-7 | Be able to Understand best practices, standards and effectively integrate IT-based solutions into the user environment.   |
| PO-8 | Recognize the need for and have the preparation and ability to engage in independent and life- long learning in the broadest context of technological Change.             |

### Programme Specific Outcomes

|       | <b>On completion of the programme, the student will be able</b>     |
|-------|---|
| PSO-1 | Apply the knowledge of Software Skills in the domain of Information |

|       |   |
|-------|---|
|       | Technology.   |
| PSO-2 | Solve the complex problems in the field of Current Trend with an understanding of the societal, legal and cultural impacts of the solution. |
| PSO-3 | An ability to design, implement, and evaluate the Networking based computing systems for efficient Transmission.                            |
| PSO-4 | From a part of member in a team with right attitudes.   |

### Course Outcomes

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>PROGRAMMING IN C</b>   |
| <b>Code</b>         | <b>18ITU01</b>   |
|                     | <b>On completion of the course, students would be able to</b>                        |
| CO-1                | Read, Understand and trace the execution of a program written in C Language.         |
| CO-2                | Implement a program with pointer, array, structures, files, preprocessors.           |
| CO-3                | Choose the right data representation format based on the requirement of the Problem. |
| CO-4                | Analyze and construct effective algorithms.  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>FUNDAMENTALS OF DIGITAL COMPUTERS</b>                                 |
| <b>Code</b>         | <b>18ITU02</b>  |
|                     | <b>On completion of the course, students would be able to</b>                     |
| CO-1                | Understand the basic principles of computer systems.                              |
| CO-2                | Learn internal operations of the computer system.                                 |
| CO-3                | Understand IO, Memory and CPU organizations.                                      |
| CO-4                | Know the basic knowledge of assembly language, instruction sets and their format. |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>FUNDAMENTALS OF INFORMATION TECHNOLOGY</b>                 |
| <b>Code</b>         | <b>18ITU03</b>   |
|                     | <b>On completion of the course, students would be able to</b>          |
| CO-1                | Understand basic concepts and terminology of Information Technology.   |
| CO-2                | Have a basic understanding of personal computers and their operations. |
| CO-3                | Be able to identify issues related to information security.            |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>LAB-I (PROGRAMMING IN C LAB)</b>   |
| <b>Code</b>         | <b>18ITU04</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Write the program on a computer, edit, compile, debug, correct, recompile and run it.                            |
| CO-2                | Choose the right data representation formats based on the requirements of the problem.                           |
| CO-3                | Construct programs that demonstrate effective use of C features including arrays, structures, pointers and files |
| CO-4                | Write well-structured program with good programming skills.  |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>LAB-II (EXCEL LAB)</b>   |
| <b>Code</b>         | <b>18ITU05</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Uses Excel to create personal and/or business spreadsheet by following current professional standards. |
| CO-2                | Use skills to design and create spreadsheets.  |
| CO-3                | Develop decision making skill by using what-if analysis on spreadsheets.                               |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>LAB III (MULTIMEDIA LAB)</b>                      |
| <b>Code</b>         | <b>18ITU06</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Design and implement an animation for various themes.         |
| CO-2                | Prepare multimedia advertisement.                             |
| CO-3                | Apply adobe tools in real time.                               |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>PROGRAMMING IN C++</b>   |
| <b>Code</b>         | <b>18ITU07</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Use the characteristics of an object-oriented programming language in a program.   |
| CO-2                | Use the basic object-oriented design principles in computer problem solving  |
| CO-3                | Develop programs in the UNIX programming environment.  |
| CO-4                | Classify inheritance with the understanding of early and late binding, Usage Of exception handling, generic programming. |
| CO-5                | Demonstrate the use of various OOPs concepts in real time application.   |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>DATA STRUCTURES</b>  |
| <b>Code</b>         | <b>18ITU08</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Know the different characteristics between linear and non linear data structure and know about all the basic operations performed in data structure. |
| CO-2                | Design and analyze programming problems statements.  |
| CO-3                | Choose appropriate data structures and algorithm to design specific problem  |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>Lab-IV (PROGRAMMING IN C++ LAB)</b>  |
| <b>Code</b>         | <b>18ITU10</b>   |
|                     | <b>On completion of the course, students would be able to</b>                          |
| CO-1                | Write the program on a computer, edit, compile, debug, correct, recompile and run it.  |
| CO-2                | Choose the right data representation formats based on the requirements of the problem. |
| CO-3                | To learn how to compile, link, and execute on Windows or Linux.                        |
| CO-4                | Construct programs that demonstrate effective use of C++ features                      |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>Lab-V (DATA STRUCTURES LAB)</b>   |
| <b>Code</b>         | <b>18ITU11</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | To design and implement programs for stacks, queues, linked lists   |
| CO-2                | Know to apply good programming design methods for development and different data structures for implementing solutions to practical problems. |
| CO-3                | Developing searching and sorting programs and knows the concepts of trees and graph.  |
| CO-4                | Capable of identifying the appropriate data structure for given problem.  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>Lab- VI (OOAD LAB)</b>  |
| <b>Code</b>         | <b>18ITU12</b>  |
|                     | <b>On completion of the course, students would be able to</b>                   |
| CO-1                | Identify and develop project scope and objectives.                              |
| CO-2                | Design and develop UML diagrams as per the analysis.                            |
| CO-3                | Apply appropriate design patterns.  |
| CO-4                | Gain knowledge about project designing and implementation, using OOAD concepts. |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>PROGRAMMING IN JAVA</b>  |
| <b>Code</b>         | <b>19ITU13</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Apply object oriented programming concepts in problem solving  |
| CO-2                | Design and implement Applet and event handling mechanisms in application programs  |
| CO-3                | Use swings aspects in graphical interactive application development and JDBC for database transactions                                     |
| CO-4                | Evaluate user requirements for software functionality required to decide whether the Java programming language can meet user requirements. |
| CO-5                | Propose the use of certain technologies by implementing them in the Java programming language to solve the given problem.                  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>COMPILER DESIGN</b>                               |
| <b>Code</b>         | <b>19ITU14</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Design and implement a prototype compiler.                    |
| CO-2                | Apply the various optimization techniques.                    |
| CO-3                | Use the different compiler construction tools.                |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>SOFTWARE ENGINEERING</b>   |
| <b>Code</b>         | <b>19ITU15</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Applying the principles of software engineering on computer based systems.                             |
| CO-2                | Involve in continuous learning to solve issues of software product using various tools and techniques. |
| CO-3                | To analyze, formulate, and design for implementation and evaluation of any computer based systems.     |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>Lab-VII (JAVA PROGRAMMING LAB)</b>                                      |
| <b>Code</b>         | <b>19ITU18</b>  |
|                     | <b>On completion of the course, students would be able to</b>                       |
| CO-1                | Able to use Java compiler and Netbeans platform to write and execute java programs. |
| CO-2                | Understand and Apply Object oriented features and Java concepts.                    |
| CO-3                | Able to apply the concept of multithreading and implement exception handling.       |
| CO-4                | Able to access data from a Database with java program.                              |
| CO-5                | Develop applications using Console I/O and File I/O,GUI applications                |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>RELATIONAL DATABASE MANAGEMENT SYSTEMS</b>              |
| <b>Code</b>         | <b>19ITU20</b>  |
|                     | <b>On completion of the course, students would be able to</b>       |
| CO-1                | Read, Understand and trace the execution of SQL queries and PL/SQL. |
| CO-2                | Implement concepts of procedures, function and trigger.             |
| CO-3                | Draw an E-R diagram using entities, attributes and relationships    |
| CO-4                | Demonstrate the working of different concepts of DBMS               |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>OPERATING SYSTEMS</b>                             |
| <b>Code</b>         | <b>19ITU21</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Analyze various scheduling algorithms.                        |
| CO-2                | Understand deadlock, prevention and avoidance algorithms.     |
| CO-3                | Compare and contrast various memory management schemes.       |
| CO-4                | Perform administrative tasks on Linux Servers.                |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>ASP.NET</b>   |
| <b>Code</b>         | <b>19ITU22</b>  |
|                     | <b>On completion of the course, students would be able to</b>                             |
| CO-1                | Able to Create a Web form with server controls.   |
| CO-2                | Separate page code from content by using code-behind pages, page controls, and components |
| CO-3                | Display dynamic data from a data source by using Microsoft ADO.NET and data binding.      |
| CO-4                | Capable of debugging ASP.NET pages by using trace.  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>CRYPTOGRAPHY</b>  |
| <b>Code</b>         | <b>19ITU23</b>  |
|                     | <b>On completion of the course, students would be able to</b>         |
| CO-1                | Understand cryptography and network security concepts and application |
| CO-2                | Apply security principles to system design                            |
| CO-3                | Identify and investigate network security threat                      |
| CO-4                | Analyze and design network security protocols                         |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>LAB -IX (DBMS LAB)</b>                                       |
| <b>Code</b>         | <b>19ITU25</b>   |
|                     | <b>On completion of the course, students would be able to</b>            |
| CO-1                | Able to develop a database application and use queries to retrieve Data. |
| CO-2                | Represent the database using ER diagrams.                                |
| CO-3                | Apply Normalization to database.   |
| CO-4                | Gain knowledge about project designing and implementation.               |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>LAB –X (ASP.Net PROGRAMMING LAB)</b>                  |
| <b>Code</b>         | <b>19ITU26</b>  |
|                     | <b>On completion of the course, students would be able to</b>     |
| CO-1                | Understand the basics of ASP.Net clearly.                         |
| CO-2                | Use ASP.NET controls in web applications.                         |
| CO-3                | Debug and deploy ASP.NET web applications.                        |
| CO-4                | Create database driven ASP.NET web applications and web services. |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>COMPUTER GRAPHICS</b>                                    |
| <b>Code</b>         | <b>19ITU27</b>   |
|                     | <b>On completion of the course, students would be able to</b>        |
| CO-1                | Describe the graphics systems  |
| CO-2                | Understand the concept of primitives                                 |
| CO-3                | Classify the two dimensional and three dimensional viewing concepts. |
| CO-4                | Realize the three dimensional concepts.                              |
| CO-5                | Narrate the color concepts.  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>MOBILE COMPUTING</b>  |
| <b>Code</b>         | <b>19ITU28</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Explain the principles and theories of mobile computing technologies.   |
| CO-2                | Illustrate the generations of telecommunication systems in wireless networks.                                 |
| CO-3                | Describe the infrastructures and technologies of mobile computing technologies.                               |
| CO-4                | List applications in different domains that mobile computing offers to the public, employees, and businesses. |
| CO-5                | Describe the possible future of mobile computing technologies and applications.                               |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Discipline Specific Elective - I<br/>WIRELESS SENSOR NETWORKS</b>                  |
| <b>Code</b>         | <b>19ITU29A</b>   |
|                     | <b>On completion of the course, students would be able to</b>                         |
| CO-1                | Acquire knowledge in unique constraints, challenges and define the Sensor Networking. |
| CO-2                | Discuss about Sensor Networking Architecture.   |
| CO-3                | Outline the general issues in routing.  |
| CO-4                | Classifying the topology and task control activity.                                   |
| CO-5                | Analyze Sensor Network platforms and tools.   |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Discipline Specific Elective - I<br/>DIGITAL SIGNAL PROCESSING</b>  |
| <b>Code</b>         | <b>19ITU29B</b>  |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Interpret, represent and process discrete/digital signals and systems.   |
| CO-2                | Understand the frequency domain analysis of discrete time signals.   |
| CO-3                | Implement issues such as computational complexity, hardware resource limitations as well as cost of DSP systems or DSP Processors. |
| CO-4                | Understand the spectral analysis of the signals.   |
| CO-5                | Understand the concepts of digital modulation Techniques.  |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>CLOUD COMPUTING</b>                                |
| <b>Code</b>         | <b>19ITU30</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Demonstrate on the fundamental principles of cloud computing   |
| CO-2                | Understand the importance of virtualization in cloud computing |
| CO-3                | Demonstrate on the concepts of IAAS, SASS, PAAS                |
| CO-4                | Acquire knowledge and work on Aneka-Cloud Application Platform |
| CO-5                | Understand the business models that underlie Cloud Computing.  |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>COMPUTER NETWORKS</b>  |
| <b>Code</b>         | <b>19ITU31</b>   |
|                     | <b>On completion of the course, students would be able to</b>                                    |
| CO-1                | Describe the functions of each layer in OSI and TCP/IP model.                                    |
| CO-2                | Explain the functions of Application layer and Presentation layer paradigms and Protocols.       |
| CO-3                | Analyze the Session layer design issues and Transport layer services.                            |
| CO-4                | Classify the routing protocols and analyze how to assign the IP addresses for the given network. |
| CO-5                | Describe the functions of the data link layer and explain the protocols.                         |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>Lab-XI COMPUTER GRAPHIC LAB</b>                   |
| <b>Code</b>         | <b>19ITU32</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Draw Geometric primitives.                                    |
| CO-2                | Drawing of various line clipping algorithms.                  |
| CO-3                | Implement various clipping algorithms.                        |
| CO-4                | Concepts of 2D & 3D object representation.                    |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>Lab-XII NETWORK LAB</b>  |
| <b>Code</b>         | <b>19ITU33</b>   |
|                     | <b>On completion of the course, students would be able to</b>                |
| CO-1                | Implement basic Network connection using devices and configuration commands. |
| CO-2                | Display hostname and IP address.   |
| CO-3                | Create sockets for web application and file transfer.                        |
| CO-4                | Implement error correction codes and window protocols.                       |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>PHP AND MYSQL</b>  |
| <b>Code</b>         | <b>19ITU35</b>   |
|                     | <b>On completion of the course, students would be able to</b>                                    |
| CO-1                | Design and implement a basic website.  |
| CO-2                | List the major elements of the PHP & MySQL work and explain why PHP is good for web development. |
| CO-3                | Learn to design and working of MySQL database.   |
| CO-4                | Learn different ways of connecting to MySQL through PHP, and to manipulate the records.          |
| CO-5                | Connect to SQL Server and other data sources.  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Discipline Specific Elective - II<br/>TCP/IP</b>                               |
| <b>Code</b>         | <b>19ITU36A</b>   |
|                     | <b>On completion of the course, students would be able to</b>                     |
| CO-1                | Design and implement TCP/IP networks  |
| CO-2                | Analyze the network protocols used in TCP/IP suite Understand the concept of FTP. |
| CO-3                | Analyze and differentiate networking protocols used in TCP/IP protocol suite.     |
| CO-4                | Compare IPv4 and IPv6.  |
| CO-5                | Understand the concept of FTP.  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Discipline Specific Elective - II<br/>NETWORK MANAGEMENT</b>   |
| <b>Code</b>         | <b>19ITU36B</b>   |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Acquire the knowledge about network management standards (OSI and TCP/IP)                                       |
| CO-2                | Acquire the knowledge about various network management tools and the skill to use them in monitoring a network. |
| CO-3                | Evaluate various commercial network management systems and open network management systems                      |
| CO-4                | Analyze the challenges faced by Network managers.   |
| CO-5                | Apply the design of network management systems.   |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>NETWORK AND INFORMATION SYSTEM SECURITY</b>                        |
| <b>Code</b>         | <b>19ITU37</b>   |
|                     | <b>On completion of the course, students would be able to</b>                  |
| CO-1                | Identify some of the factors driving the need for network security             |
| CO-2                | Identify and classify particular types of attacks, and define them             |
| CO-3                | Demonstrate an ability to use the techniques and tools necessary for security. |
| CO-4                | Compare & contrast on symmetric, asymmetric encryption systems.                |
| CO-5                | Configure simple firewall architectures.                                       |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>ENTERPRISE RESOURCE PLANNING</b>  |
| <b>Code</b>         | <b>19ITU38</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Classify different processes of the organization and relationship among all processes.  |
| CO-2                | Examine systematically the planning mechanisms in an enterprise, and identify all components in an ERP system and the relationships among the components.   |
| CO-3                | Describe the Generic Model of ERP and General ERP Implementation Methodology.   |
| CO-4                | Use knowledge and apply the concepts.   |
| CO-5                | Analyze, design and manage the development of a component or process to meet desired needs within realistic constraints in one or more application domains. |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>Lab-XIII PHP AND MYSQL LAB</b>                       |
| <b>Code</b>         | <b>19ITU39</b>   |
|                     | <b>On completion of the course, students would be able to</b>    |
| CO-1                | Design dynamic websites using PHP.                               |
| CO-2                | Create simple web applications using MySQL.                      |
| CO-3                | Able to develop a simple back-end database to support a website. |
| CO-4                | Implement Database connectivity.                                 |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>Lab-XIV SOFTWARE TESTING LAB</b>                              |
| <b>Code</b>         | <b>19ITU40</b>  |
|                     | <b>On completion of the course, students would be able to</b>             |
| CO-1                | Writing test suits for applications                                       |
| CO-2                | Construct and test simple programs.                                       |
| CO-3                | Understanding Selenium tool to perform testing                            |
| CO-4                | Understanding the use of bug tracking and testing tool (Bugzilla, Bugbit) |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Generic Elective Course (EDC)<br/>SYSTEM ANALYSIS AND DESIGN</b> |
| <b>Code</b>         | <b>18GECEDC</b>   |
|                     | <b>On completion of the course, students would be able to</b>       |
| CO-1                | Understand the system and their development.                        |
| CO-2                | Identify the phases of the system development life cycle.           |
| CO-3                | Understanding about developing systems project documentation.       |
| CO-4                | Know about the various system testing methods.                      |
| CO-5                | Identify the primary activities of maintenance.                     |



Since 1947

## PSG College of Arts & Science Coimbatore – 641 014

### Programme: BSc Computer Technology

#### Programme Outcomes

|      | <b>On completion of the programme, the student will be able to</b>   |
|------|--|
| PO-1 | Become knowledgeable in the subject of Computer Technology and apply the principles of the same to the needs of the Employer / Institution / own Business or Enterprise. |
| PO-2 | Gain Analytical skills in the field/area of Computer Technology.   |
| PO-3 | Understand and appreciate professional ethics, community living and Nation building initiatives.   |
| PO-4 | Ability to apply knowledge of computing and mathematics to software design and computing problems  |
| PO-5 | Understand and analyze a problem, and identify and define the computing requirements appropriate to its solution   |
| PO-6 | An ability to use the techniques, skills and modern computing and software engineering tools necessary for computing practice  |
| PO-7 | Understand the impact of big data for business decisions and strategy.   |
| PO-8 | Identify some of the factors driving the need for network security.  |

#### Programme Specific Outcomes

|       | <b>On completion of the programme, the student will be able</b>  |
|-------|--|
| PSO-1 | Apply the knowledge of Computer Technology in the domain of Banking, Engineering, Internet of Things, E-Governance, Health and Insurance         |
| PSO-2 | Solve the complex problems in the field of Computer Technology with an understanding of the societal, legal and cultural impacts of the solution |
| PSO-3 | Able to develop computer programs in the areas related to Database   |

|       |  |
|-------|--|
|       | Management, Data Analysis Techniques and recent technologies for promoting remarkable advancements in emerging environments like cloud computing, embedded and real time systems |
| PSO-4 | Form a part of member in a team with right attitudes.  |

### Course Outcomes

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>PROGRAMMING IN C</b>                               |
| <b>Code</b>         | <b>18CTU01</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Solve the problems using computational methods and techniques. |
| CO-2                | Design a program using pointer.                                |
| CO-3                | Design a program using structure and functions.                |
| CO-4                | Implement the applications using files.                        |
| CO-5                | Ability to comprehend the programming techniques in C.         |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>DIGITAL ELECTRONICS</b>  |
| <b>Code</b>         | <b>18CTU02</b>   |
|                     | <b>On completion of the course, students would be able to</b>                        |
| CO-1                | Convert one form of number system to another form of number system.                  |
| CO-2                | Draw a circuit for any logic function.   |
| CO-3                | Use K-Map for simplification of Boolean Function.                                    |
| CO-4                | Analyze various types of combinational logic circuits and sequential logic circuits. |
| CO-5                | Understand the basics of embedded systems and Internet of Things                     |

|               |             |
|---------------|-------------|
| <b>Course</b> | <b>Core</b> |
|---------------|-------------|

|              |  |
|--------------|--|
| <b>Title</b> | <b>LAB-I ( C PROGRAMMING LAB)</b>  |
| <b>Code</b>  | <b>18CTU04</b>   |
|              | <b>On completion of the course, students would be able to</b>                    |
| CO-1         | To do programming in C language  |
| CO-2         | To write diversified solutions using C language.                                 |
| CO-3         | Implement Programs with pointers and arrays perform pointer arithmetic.          |
| CO-4         | Write C program for simple applications of real life using structures and files. |

|               |   |
|---------------|---|
| <b>Course</b> | <b>Core</b>   |
| <b>Title</b>  | <b>LAB - II ( WEB DESIGNING LAB )</b>                         |
| <b>Code</b>   | <b>18CTU05</b>  |
|               | <b>On completion of the course, students would be able to</b> |
| CO-1          | Create static web sites with hyperlinks.                      |
| CO-2          | Create web pages using CSS.                                   |
| CO-3          | Design web page for Real time application.                    |

|               |  |
|---------------|--|
| <b>Course</b> | <b>Core</b>  |
| <b>Title</b>  | <b>PROGRAMMING IN C++</b>  |
| <b>Code</b>   | <b>18CTU06</b>   |
|               | <b>On completion of the course, students would be able to</b>  |
| CO-1          | Develop a program using functions and operators.   |
| CO-2          | Design a program using classes and objects.  |
| CO-3          | Implement constructor and destructors.   |
| CO-4          | Able to reuse the code with extensible Class types, User-defined operators and function Overloading.                       |
| CO-5          | Design the files for real time applications.   |
| CO-6          | Program with advanced features of the C++ programming language specifically stream I/O, templates and operator overloading |

|               |                        |
|---------------|------------------------|
| <b>Course</b> | <b>Core</b>            |
| <b>Title</b>  | <b>DATA STRUCTURES</b> |

|             |   |
|-------------|---|
| <b>Code</b> | <b>18CTU07</b>  |
|             | <b>On completion of the course, students would be able to</b>                     |
| CO-1        | Understand basic data structures such as arrays, linked lists, stacks and queues. |
| CO-2        | Implement the searching and sorting techniques in various applications            |
| CO-3        | Solve problem involving graphs, trees and heaps                                   |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>LAB II (C++ PROGRAMMING LAB)</b>   |
| <b>Code</b>         | <b>18CTU09</b>   |
|                     | <b>On completion of the course, students would be able to</b>                                    |
| CO-1                | Develop solutions for a range of problems using objects and classes.                             |
| CO-2                | Programs to demonstrate the implementation of constructors, destructors and operator overloading |
| CO-3                | Apply fundamental algorithmic problems including inheritance and polymorphism.                   |
| CO-4                | Implement Exceptional handling   |
| CO-5                | Understand generic programming, templates, file handling.  |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>LAB IV (DATA STRUCTURE LAB)</b>                              |
| <b>Code</b>         | <b>18CTU10</b>   |
|                     | <b>On completion of the course, students would be able to</b>            |
| CO-1                | Construct various data structures and perform operations.                |
| CO-2                | Represent any data structure using array and linked list.                |
| CO-3                | Implement the searching and sorting algorithms.                          |
| CO-4                | Evaluate and choose the right data structure for a specified application |

|                     |                                     |
|---------------------|-------------------------------------|
| <b>Course Title</b> | <b>Core<br/>PROGRAMMING IN JAVA</b> |
| <b>Code</b>         | <b>19CTU11</b>                      |

|      | <b>On completion of the course, students would be able to</b>                               |
|------|---|
| CO-1 | Understand, propose and develop solutions for the problems using Java programming language. |
| CO-2 | Identify classes, objects, members of a class and relationships among them in problems.     |
| CO-3 | Demonstrate the concepts of exception handling and multithreading                           |
| CO-4 | Implement and design various applications using applets and swings.                         |

| <b>Course Title</b> | <b>Core<br/>DATABASE MANAGEMENT SYSTEM</b>   |
|---------------------|--|
| <b>Code</b>         | <b>19CTU12</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Compare various database models.   |
| CO-2                | Design and create tables in relational database and use queries.   |
| CO-3                | Design, implement applications and access databases.   |
| CO-4                | Demonstrate the concepts various constraints, joins and Views, cursors, triggers, functions and Procedures essential for the application |
| CO-5                | Connect variety of applications using SQL and NoSQL databases  |

| <b>Course Title</b> | <b>Core<br/>OPERATING SYSTEMS</b>  |
|---------------------|--|
| <b>Code</b>         | <b>19CTU13</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Comprehend the techniques used to implement the process manager.   |
| CO-2                | Demonstrate the different process or thread synchronization methods and the tradeoffs between them.  |
| CO-3                | Implement CPU Scheduling algorithms for process scheduling and deploy a deep knowledge about the memory management concepts including swapping, paging and segmentation. |
| CO-4                | Comprehend virtual memory abstractions in operating systems.   |
| CO-5                | Design and develop file system interfaces, etc   |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>LAB V (JAVA PROGRAMMING LAB)</b>                               |
| <b>Code</b>         | <b>19CTU16</b>   |
|                     | <b>On completion of the course, students would be able to</b>              |
| CO-1                | Understand and use the basic programming constructs of Java.               |
| CO-2                | Apply OOPs concepts in variety of applications and on different platforms. |
| CO-3                | Demonstrate the concepts of packages and interfaces.                       |
| CO-4                | Develop java programs using multithread concepts.                          |
| CO-5                | Design applications using Applets, AWT and Swing.                          |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>LAB VI (DBMS LAB)</b>  |
| <b>Code</b>         | <b>19CTU17</b>   |
|                     | <b>On completion of the course, students would be able to</b>                        |
| CO-1                | Understand and use the data definition and data manipulation Commands.               |
| CO-2                | Demonstrate the concepts various constraints, joins and Views.                       |
| CO-3                | Implement cursors, triggers, functions and Procedures essential for the application. |
| CO-4                | Able to connect variety of applications using SQL and NoSQL databases                |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>ADVANCED JAVA PROGRAMMING</b>                      |
| <b>Code</b>         | <b>19CTU18</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Construct Web Application using Servlets                       |
| CO-2                | Web application using Java Server Pages                        |
| CO-3                | Enterprise application using Session Beans                     |
| CO-4                | Implement application using Entity Beans linked with Database  |
| CO-5                | Asynchronous enterprise application using Message-Driven Beans |

|               |             |
|---------------|-------------|
| <b>Course</b> | <b>Core</b> |
|---------------|-------------|

|              |   |
|--------------|---|
| <b>Title</b> | <b>WEB TECHNOLOGY</b>   |
| <b>Code</b>  | <b>19CTU19</b>  |
|              | <b>On completion of the course, students would be able to</b> |
| CO-1         | Understand the fundamental concepts in HTML & XML.            |
| CO-2         | Implement ASP.NET Forms and objects.                          |
| CO-3         | Use various PHP tags and its respective databases.            |
| CO-4         | Design their own web services and real time applications      |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>AGILE TECHNOLOGIES</b>   |
| <b>Code</b>         | <b>19CTU20</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Understand agile software development, different types of agile, implementing tools and techniques.        |
| CO-2                | Implement new way of collecting requirements, Lean Product development & the Minimum Viable Product (MVP). |
| CO-3                | Develop Grooming & planning, scrum, Sprint planning  |
| CO-4                | Demonstrate various testing techniques, tracking and reporting.  |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>CLOUD COMPUTING</b>  |
| <b>Code</b>         | <b>19CTU21</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Articulate the concepts, key technologies, strengths, and limitations of cloud computing and the possible applications for state-of-the-art cloud computing. |
| CO-2                | Identify the architecture and infrastructure of cloud computing, including SaaS, PaaS, IaaS, public cloud, private cloud, hybrid cloud,                      |
| CO-3                | Explain the core issues of cloud computing such as security, privacy and interoperability  |
| CO-4                | Provide the appropriate cloud computing solutions and recommendations according to the applications used.  |
| CO-5                | Collaboratively research and write a research paper, and present the research  |

|  |         |
|--|---------|
|  | online. |
|--|---------|

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>DATA COMMUNICATIONS AND NETWORKS</b>  |
| <b>Code</b>         | <b>19CTU22</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Understand and explain Data Communications System and its components.   |
| CO-2                | Understand analog signals, digital signals, and various modes of data transmission  |
| CO-3                | Identify the different types of network topologies and protocols.   |
| CO-4                | Enumerate the layers of the OSI model and the functions of each layer.  |
| CO-5                | Familiarity with the basic protocols of computer networks, and how they can be used to assist in network design and implementation. |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>LAB VII - ADVANCED JAVA PROGRAMMING LAB</b>   |
| <b>Code</b>         | <b>19CTU23</b>  |
|                     | <b>On completion of the course, students would be able to</b>                                   |
| CO-1                | Learn to access database through Java programs, using Java Data Base Connectivity (JDBC)        |
| CO-2                | Create dynamic web pages, using Servlets and JSP.   |
| CO-3                | Make a reusable software component, using Java Bean   |
| CO-4                | Understand the Java programming language in the aspects of designing, coding and implementation |
| CO-5                | Know about new ideas and advances, techniques, and tools and to use the J2EE effectively        |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>LAB VIII WEB TECHNOLOGY LAB</b>                   |
| <b>Code</b>         | <b>19CTU24</b>  |
|                     | <b>On completion of the course, students would be able to</b> |

|      |   |
|------|---|
| CO-1 | Understand and compare the applications using HTML & XML.   |
| CO-2 | Develop Forms, objects and connect databases using ASP.NET. |
| CO-3 | Implement PHP tags, Forms with it's respective databases.   |
| CO-4 | Design their own web sites.                                 |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Generic Elective Course (EDC)</b><br><b>FOUNDATIONAL CONCEPTS OF COMPUTER SCIENCE</b>                     |
| <b>Code</b>         | <b>18GECEDC</b>  |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Describe the usage of computers and why computers are essential components in business and society.          |
| CO-2                | Utilize the Internet Web resources and evaluate on-line e-business system.                                   |
| CO-3                | Solve common business problems using appropriate Information technology applications and systems..           |
| CO-4                | Identify categories of programs, system software and applications. organize and work with files and folders. |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core</b><br><b>PYTHON PROGRAMMING</b>                      |
| <b>Code</b>         | <b>19CTU25</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Understand the core principles of Python.                     |
| CO-2                | Create programs using strings and lists.                      |
| CO-3                | Appreciate OOPs concepts.                                     |
| CO-4                | Familiarize with the fundamentals of Exceptions.              |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>MOBILE APPLICATION DEVELOPMENT</b>  |
| <b>Code</b>         | <b>19CTU26</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Understand the concept of android development platform and how to configure and create android applications |
| CO-2                | Create an activity, intents, different event handling methods and menus                                     |
| CO-3                | Know working with views, view groups and content provider   |
| CO-4                | Understand the graphics and animation in developing android application.                                    |
| CO-5                | Creating android applications and exploring them.   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>CRYPTOGRAPHY AND NETWORK SECURITY</b>             |
| <b>Code</b>         | <b>19CTU27</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Capture Idea about Computer and Network security.             |
| CO-2                | Study about the various encryption techniques.                |
| CO-3                | Gain knowledge about secure data transmission.                |
| CO-4                | Acquire the concepts of MAC and digital signatures.           |
| CO-5                | Differentiate about Email security and IP security.           |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>EMBEDDED SYSTEMS</b>                              |
| <b>Code</b>         | <b>19CTU28</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Understand and analyze embedded systems.                      |
| CO-2                | Justify the attributes of embedded systems.                   |
| CO-3                | Acquire knowledge on 8051.                                    |
| CO-4                | Program in 8051.  |
| CO-5                | Suggest an application for an embedded system.                |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Discipline specific elective – I<br/>PERVASIVE COMPUTING</b> |
| <b>Code</b>         | <b>19CTU29A</b>   |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Understand the need of Pervasive Computing.                     |
| CO-2                | Understand various applications involving Pervasive Computing.  |
| CO-3                | Recognize Voice Enabled Pervasive Computing.                    |
| CO-4                | Implement preferred models for PDA.                             |
| CO-5                | Gain Knowledge on User Interfaces and Pervasive Architecture.   |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Discipline specific elective – I<br/>MACHINE LEARNING</b>                                 |
| <b>Code</b>         | <b>19CTU29B</b>  |
|                     | <b>On completion of the course, students would be able to</b>                                |
| CO-1                | Understand complexity of Machine Learning algorithms and their limitations                   |
| CO-2                | Understand machine learning techniques and associated computing techniques and technologies  |
| CO-3                | Recognize and implement suitable model parameters for different machine learning techniques. |
| CO-4                | Gains a complete knowledge Supervised and Unsupervised Learning                              |
| CO-5                | Understand the concepts of Bayesian Estimation   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>LAB-IX (PYTHON PROGRAMMING LAB)</b>               |
| <b>Code</b>         | <b>19CTU30</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Apply the basic concepts in Python.                           |
| CO-2                | Implement the concept of string and lists.                    |
| CO-3                | Apply OOPs concept in Python.                                 |
| CO-4                | Develop applications in Python.                               |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>LAB-X (MOBILE APPLICATION DEVELOPMENT LAB)</b>        |
| <b>Code</b>         | <b>19CTU31</b>  |
|                     | <b>On completion of the course, students would be able to</b>     |
| CO-1                | Learn the configuration and installation of android.              |
| CO-2                | Understand the usage of various textboxes and buttons in android. |
| CO-3                | Develop a simple program using API controls.                      |
| CO-4                | Learn to Design an application to access GPS location             |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>R PROGRAMMING</b>  |
| <b>Code</b>         | <b>19CTU33</b>   |
|                     | <b>On completion of the course, students would be able to</b>            |
| CO-1                | Learn the main R Data structures – Vector and data frame.                |
| CO-2                | Import external data into R for data processing and statistical analysis |
| CO-3                | Perform statistical analysis on variety of data                          |
| CO-4                | Perform appropriate statistical tests using R and visualize the outcome  |
| CO-5                | Apply clustering in R  |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>DATA ANALYTICS</b>   |
| <b>Code</b>         | <b>19CTU34</b>   |
|                     | <b>On completion of the course, students would be able to</b>                            |
| CO-1                | Understand the Basic preprocessing of data   |
| CO-2                | Understand various tools and techniques used for Analytics.                              |
| CO-3                | Conduct exploratory data analysis  |
| CO-4                | Use knowledge of perception and cognition to evaluate visualization design alternatives. |
| CO-5                | Craftvisual presentations of data for effective communication                            |

|               |             |
|---------------|-------------|
| <b>Course</b> | <b>Core</b> |
|---------------|-------------|

|              |   |
|--------------|---|
| <b>Title</b> | <b>INTERNET OF THINGS</b>                                     |
| <b>Code</b>  | <b>19CTU35</b>  |
|              | <b>On completion of the course, students would be able to</b> |
| CO-1         | Explain the concept of IoT.                                   |
| CO-2         | Analyze various protocols for IoT.                            |
| CO-3         | Design a PoC of an IoT system using Raspberry Pi/Arduino.     |
| CO-4         | Apply data analytics and use cloud offerings related to IoT.  |
| CO-5         | Analyze applications of IoT in real time scenario.            |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Discipline specific Elective - II<br/>PARALLEL COMPUTING</b>           |
| <b>Code</b>         | <b>19CTU36A</b>   |
|                     | <b>On completion of the course, students would be able to</b>             |
| CO-1                | Describe different parallel architectures and programming computation     |
| CO-2                | Identify which parallel strategy is appropriate to solve a given problem. |
| CO-3                | Describe the basic MPI operations   |
| CO-4                | Develop message-passing parallel algorithms with MPI.                     |
| CO-5                | Develop programming in OpenCL.  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Discipline specific Elective - II<br/>NATURAL LANGUAGE PROCESSING</b>                              |
| <b>Code</b>         | <b>19CTU36B</b>   |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Tag a given text with basic Language features   |
| CO-2                | Design an innovative application using NLP components   |
| CO-3                | Implement a rule based system to tackle morphology/syntax of a language                               |
| CO-4                | Design a tag set to be used for statistical processing for real-time applications.                    |
| CO-5                | Compare and contrast use of different statistical approaches for different types of NLP applications. |

|               |             |
|---------------|-------------|
| <b>Course</b> | <b>Core</b> |
|---------------|-------------|

|              |  |
|--------------|--|
| <b>Title</b> | <b>LAB XI- R PROGRAMMING LAB</b>   |
| <b>Code</b>  | <b>19CTU37</b>   |
|              | <b>On completion of the course, students would be able to</b>                                |
| CO-1         | Establish an efficient scientific computing environment in R.                                |
| CO-2         | Apply statistical functions(mean, standard deviation, sampling).                             |
| CO-3         | Design and write efficient programs using R to perform Data manipulation and analysis tasks. |
| CO-4         | Use R for inferential statistics.  |

|               |   |
|---------------|---|
| <b>Course</b> | <b>Core</b>   |
| <b>Title</b>  | <b>LAB XII- DATA VISUALIZATION LAB</b>                        |
| <b>Code</b>   | <b>19CTU38</b>  |
|               | <b>On completion of the course, students would be able to</b> |
| CO-1          | Connect data source using Tableau.                            |
| CO-2          | Implement Maps and Scatter plots.                             |
| CO-3          | Apply appropriate data sets for visualization.                |
| CO-4          | Identify and apply Power BI Concept.                          |



Since 1947

# PSG College of Arts & Science Coimbatore – 641 014

## Programme: BSc Computer Science with Data Analytics

### Programme Outcomes

|      | <b>On completion of the programme, the student will be able to</b>  |
|------|---|
| PO-1 | Become knowledgeable in the subject of Data Analytics and apply the principles of the same to the needs of the Employer / Institution/ own Business or Enterprise   |
| PO-2 | Gain Analytical skills in the field of Computer Science   |
| PO-3 | Understand and appreciate professional ethics, community living and NationBuilding initiatives  |
| PO-4 | Acquire the knowledge of the latest networking and mobile technologies and future trends  |
| PO-5 | Explain basic terms in the area of Information Systems development and management, group database management systems according to their purpose, and give an insight into the statistical methods of data analysis and prediction |
| PO-6 | Students will demonstrate the ability to translate data into clear, actionable insights   |
| PO-7 | An ability to use technical skills in predicative and prescriptive modeling to support business decision-making   |
| PO-8 | An ability to gain knowledge in big data analytics  |

### Programme Specific Outcomes

|       | <b>On completion of the programme, the student will be able</b>   |
|-------|---|
| PSO-1 | Apply the knowledge of Computer Analytics in the domain of DataScience,Data warehousing and Database development                            |
| PSO-2 | Solve the complex problems in the field of Data Analytics with an understanding of the societal, legal and cultural impacts of the solution |

|       |  |
|-------|--|
| PSO-3 | Students will demonstrate the ability to think critically in making decisions based on data and deep analytics |
| PSO-4 | Form a part of member in a team with right attitudes   |

**Course Outcomes**

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>DIGITAL ELECTRONICS</b>  |
| <b>Code</b>         | <b>19DAU01</b>   |
|                     | <b>On completion of the course, students would be able to</b>                        |
| CO-1                | Convert one form of number system to another form of number system.                  |
| CO-2                | Draw a circuit for any logic function.   |
| CO-3                | Use K-Map for simplification of Boolean Function.                                    |
| CO-4                | Analyze various types of combinational logic circuits and sequential logic circuits. |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>PROBLEM SOLVING AND C PROGRAMMING</b>                         |
| <b>Code</b>         | <b>19DAU02</b>  |
|                     | <b>On completion of the course, students would be able to</b>             |
| CO-1                | Design C Programs for problems.   |
| CO-2                | Write and execute C programs for real-time applications.                  |
| CO-3                | Design programs involving decision structures, loops , functions, arrays. |
| CO-4                | Implement the concept of pointers and structures effectively.             |
| CO-5                | Create applications using File concepts.                                  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>LAB – I (C PROGRAMMING LAB)</b>                   |
| <b>Code</b>         | <b>19DAU04</b>  |
|                     | <b>On completion of the course, students would be able to</b> |

|      |  |
|------|--|
| CO-1 | Develop C programs for applications by making use of basic constructs, arrays and strings. |
| CO-2 | Develop C programs involving functions, recursion, pointers, and structures.               |
| CO-3 | Design applications in C using File concept.   |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>LAB – II (DATA MANIPULATION USING EXCEL LAB)</b>             |
| <b>Code</b>         | <b>19DAU05</b>   |
|                     | <b>On completion of the course, students would be able to</b>            |
| CO-1                | Use the excel features to create and analyze the dataset.                |
| CO-2                | Perform calculations in spreadsheet.                                     |
| CO-3                | Develop decision making skill by using what-if analysis on spreadsheets. |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>PYTHON PROGRAMMING</b>                                   |
| <b>Code</b>         | <b>19DAU06</b>   |
|                     | <b>On completion of the course, students would be able to</b>        |
| CO-1                | Develop solutions to simple computational problems.                  |
| CO-2                | Write and execute simple Python programs.                            |
| CO-3                | Decompose a Python program into functions.                           |
| CO-4                | Represent compound data using Python lists, tuples and dictionaries. |
| CO-5                | Apply OOPs concepts in real-time Python applications.                |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>DATA STRUCTURES</b>  |
| <b>Code</b>         | <b>19DAU07</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Apply the knowledge of data structure concepts and the various algorithms while designing and developing software. |
| CO-2                | Analyze the complexity and correctness of the new algorithms.  |
| CO-3                | Choose the appropriate data structure and algorithm design method for a specified application.                     |
| CO-4                | Apply and implement learned algorithm design techniques and data structures to                                     |

|      |   |
|------|---|
|      | solve problems.                                       |
| CO-5 | Apply algorithmic problems including Tree traversals, |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>LAB – III (PYTHON PROGRAMMING LAB )</b>           |
| <b>Code</b>         | <b>19DAU10</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Write diversified solution using Python language.             |
| CO-2                | Solve problems using control statements.                      |
| CO-3                | Develop programs using Tuples, Lists and Dictionaries.        |
| CO-4                | Implement program using file handling operations.             |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>LAB – IV (DATA STRUCTURES LAB )</b>                     |
| <b>Code</b>         | <b>19DAU11</b>  |
|                     | <b>On completion of the course, students would be able to</b>       |
| CO-1                | Illustrate the behavior of data structures.                         |
| CO-2                | Analyze and determine the appropriate data structure for a problem. |
| CO-3                | Apply the necessary algorithms to solve the problems.               |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>OBJECT ORIENTED PROGRAMMING WITH JAVA</b>                                   |
| <b>Code</b>         | <b>19DAU12</b>  |
|                     | <b>On completion of the course, students would be able to</b>                           |
| CO-1                | Gain knowledge and design the basic problem solution using Object Oriented Programming. |
| CO-2                | Program efficiently using Inheritance, Packages and Exception handling.                 |
| CO-3                | Efficiently implement multithreading and string operations.                             |
| CO-4                | Understand and implement collection framework.  |
| CO-5                | Develop effective API using AWT.  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>RELATIONAL DATABASE MANAGEMENT SYSTEMS</b>              |
| <b>Code</b>         | <b>19DAU13</b>  |
|                     | <b>On completion of the course, students would be able to</b>       |
| CO-1                | Recognize the database systems concept.                             |
| CO-2                | Recognize the relational concepts and constraints.                  |
| CO-3                | Implement data manipulation commands.                               |
| CO-4                | Gain knowledge about procedures and triggers in PL/SQL.             |
| CO-5                | Conceptualize the components involved in object oriented databases. |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>OPERATING SYSTEM</b>  |
| <b>Code</b>         | <b>19DAU14</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Describe the important computer system resources and the role of operating system in their management policies. |
| CO-2                | Understand the process management policies and scheduling of processes by CPU.                                  |
| CO-3                | Understand the Mutual exclusion, Deadlock detection in operating system.  |
| CO-4                | Describe and analyze the memory management and its allocation policies.   |
| CO-5                | Realize the file mechanism in operating systems   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>LAB – V(JAVA PROGRAMMING LAB)</b>                 |
| <b>Code</b>         | <b>19DAU17</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Solve problems using exception handling and multithreading.   |
| CO-2                | Analyze and implement AWT                                     |
| CO-3                | Develop java programs using threads.                          |

|                     |                                      |
|---------------------|--------------------------------------|
| <b>Course Title</b> | <b>Core<br/>LAB – VI (RDBMS LAB)</b> |
|---------------------|--------------------------------------|

|             |   |
|-------------|---|
| <b>Code</b> | <b>19DAU18</b>  |
|             | <b>On completion of the course, students would be able to</b> |
| CO-1        | Implement programs using object oriented database systems.    |
| CO-2        | Construct programs in PL/SQL with real time applications.     |
| CO-3        | Gain knowledge about PL/SQL commands.                         |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>R PROGRAMMING</b>                                 |
| <b>Code</b>         | <b>19DAU20</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Apply the knowledge of R concepts.                            |
| CO-2                | To understand how to read the larger datasets in R.           |
| CO-3                | To get knowledge on managing data frames                      |
| CO-4                | Analyze and understand the control structures and functions.  |
| CO-5                | Investigate debugging and loop functions in R.                |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>MODERN DATABASE SYSTEMS</b>                                       |
| <b>Code</b>         | <b>19DAU21</b>  |
|                     | <b>On completion of the course, students would be able to</b>                 |
| CO-1                | Apply the knowledge of Distributed Database system concepts while developing. |
| CO-2                | Analyze the complexity of Parallel Database Systems.                          |
| CO-3                | Choose the appropriate graph database.  |
| CO-4                | Investigate database revolution.  |
| CO-5                | Analyze about in-memory databases.  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>DATA MINING</b>                                   |
| <b>Code</b>         | <b>19DAU22</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Apply the knowledge data mining to mine the data.             |

|      |  |
|------|--|
| CO-2 | Analyze the complexity and correctness of the association rule.          |
| CO-3 | Choose the appropriate clustering algorithm for a specified application. |
| CO-4 | Apply and implement decision tree design techniques.                     |
| CO-5 | Apply temporal and spatial data mining.                                  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>PREDICTIVE ANALYTICS</b>                                  |
| <b>Code</b>         | <b>19DAU23</b>  |
|                     | <b>On completion of the course, students would be able to</b>         |
| CO-1                | Analyze the difference between predictive modeling with other models. |
| CO-2                | Represent data in various statistical formats.                        |
| CO-3                | Identify the methods for data cleaning.                               |
| CO-4                | Analyze different Association rules and Item sets.                    |
| CO-5                | Assess the predictive modeling and Linear Regression.                 |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>LAB – VIII (R-PROGRAMMING LAB)</b>                |
| <b>Code</b>         | <b>19DAU25</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Develop R programs using built-in functions.                  |
| CO-2                | Implement data frames and lists.                              |
| CO-3                | Design applications in R using File concept.                  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>LAB – IX (MODERN DATABASE SYSTEMS LAB )</b>       |
| <b>Code</b>         | <b>19DAU26</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Illustrate the behavior of distributed database.              |
| CO-2                | Apply and implement No-SQL databases.                         |
| CO-3                | Analyze and determine the appropriate database for a problem. |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>LAB –X (DATA MINING LAB)</b>   |
| <b>Code</b>         | <b>19DAU27</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Learn to execute data mining tasks using a data mining toolkit (such as WEKA) and visualize the results. |
| CO-2                | Demonstrate the working of algorithms for data mining tasks such association classification.             |
| CO-3                | Apply various clustering algorithms on the given data set.   |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>MOBILE AND WEB APPLICATIONS DEVELOPMENT</b>              |
| <b>Code</b>         | <b>19DAU28</b>   |
|                     | <b>On completion of the course, students would be able to</b>        |
| CO-1                | Design the apps for mobile application using Android.                |
| CO-2                | Design the android application using intents, fragments and layouts. |
| CO-3                | Create a new pages and posts in WordPress.                           |
| CO-4                | Design the pages with themes and Plug-in.                            |
| CO-5                | Design the website with Photos and Galleries.                        |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>MACHINE LEARNING</b>                              |
| <b>Code</b>         | <b>19DAU29</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Able to Understand the Basics of Machine learning             |
| CO-2                | Recognize the Multivariate methods                            |
| CO-3                | Implementing nonparametric methods & Linear Discrimination    |
| CO-4                | Familiarize with Bayesian Estimation & Hidden Markov Models   |
| CO-5                | Able to Analyze Machine learning experiments.                 |

|                     |                                   |
|---------------------|-----------------------------------|
| <b>Course Title</b> | <b>Core<br/>COMPUTER NETWORKS</b> |
|---------------------|-----------------------------------|

|             |   |
|-------------|---|
| <b>Code</b> | <b>19DAU30</b>  |
|             | <b>On completion of the course, students would be able to</b>   |
| CO-1        | Visualize the different aspects of networks, protocols and network design models.                                       |
| CO-2        | Identify the hacking methods and threats to National security.  |
| CO-3        | Analyze and compare different LAN protocols.  |
| CO-4        | Compare and select appropriate routing algorithms for a network.  |
| CO-5        | Examine the important aspects and functions of network layer, transport layer and application layer in internetworking. |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>DATA VISUALIZATION</b>                                |
| <b>Code</b>         | <b>19DAU31</b>  |
|                     | <b>On completion of the course, students would be able to</b>     |
| CO-1                | Know the foundations of data visualization.                       |
| CO-2                | Identify spatial and geospatial data.                             |
| CO-3                | Identify visualization techniques for Trees, Graphs and Networks. |
| CO-4                | Learn visual analytic techniques using Tableau.                   |
| CO-5                | Know the basics of PowerBI.                                       |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Discipline Specific Elective Course – I<br/>SOFTWARE PROJECT MANAGEMENT</b> |
| <b>Code</b>         | <b>19DAU32A</b>  |
|                     | <b>On completion of the course, students would be able to</b>                  |
| CO-1                | Understand the developing software project management                          |
| CO-2                | Understand the project planning  |
| CO-3                | Understand the project Efforts Estimation                                      |
| CO-4                | Understand the risk assessment   |
| CO-5                | Understand the Managing People in Software Environment                         |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Discipline Specific Elective Course – I<br/>AGILE SOFTWARE ENGINEERING</b>   |
| <b>Code</b>         | <b>19DAU32B</b>   |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Compare agile software development with traditional software Development models.  |
| CO-2                | Understand pair programming and its characteristics.  |
| CO-3                | Apply refactoring techniques.   |
| CO-4                | Identify the benefits and pitfalls of transitioning to agile.   |
| CO-5                | Apply agile practices such as test-driven development, standupmeetings, and pair programming to their software engineering Practices. |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>LAB – XI (MOBILE AND WEB APPLICATIONS LAB)</b>    |
| <b>Code</b>         | <b>19DAU33</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Develop applications in android studio.                       |
| CO-2                | Program different layout using layout manager.                |
| CO-3                | Create blogs and sites using WordPress.                       |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>LAB-XII(MACHINE LEARNING LAB)</b>                                 |
| <b>Code</b>         | <b>19DAU34</b>  |
|                     | <b>On completion of the course, students would be able to</b>                 |
| CO-1                | Understand the implementation procedures for the machine learning algorithms. |
| CO-2                | Design Java/Python programs for various Learning algorithms.                  |
| CO-3                | Apply appropriate data sets to the Machine Learning algorithms.               |
| CO-4                | Identify and apply Machine Learning algorithms to solve real world problems.  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>LAB – XIII (DATA VISUALIZATION LAB)</b>           |
| <b>Code</b>         | <b>19DAU35</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Connect data source using Tableau.                            |
| CO-2                | Implement Maps and Scatter plots.                             |
| CO-3                | Apply appropriate data sets for visualization                 |
| CO-4                | Identify and apply Power BI Concept                           |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>ARTIFICIAL INTELLIGENCE</b>                                     |
| <b>Code</b>         | <b>19DAU37</b>  |
|                     | <b>On completion of the course, students would be able to</b>               |
| CO-1                | Identify problems that are amenable to solution by AI methods.              |
| CO-2                | Identify appropriate AI methods to solve a given problem.                   |
| CO-3                | Formalize a given problem in the language/framework of different AI methods |
| CO-4                | Implement basic AI algorithms.  |
| CO-5                | Formalize a sentence in First Order Logic.                                  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>MINING OF MASSIVE DATA</b>                        |
| <b>Code</b>         | <b>19DAU38</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Implement MapReduce algorithms.                               |
| CO-2                | Execute data streams.   |
| CO-3                | Design programs involving Link analysis.                      |
| CO-4                | Advertise on the web and implement dimensionality reduction.  |
| CO-5                | Create applications for mining social network graphs.         |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>EXPLORATORY DATA ANALYTICS</b>                    |
| <b>Code</b>         | <b>19DAU39</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Understand dplyr package.                                     |
| CO-2                | Understand analytic graphics and exploratory graphs.          |
| CO-3                | Apply plotting system.  |
| CO-4                | Recognize plotting and colors                                 |
| CO-5                | Learn how to use, customize plotting system.                  |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Discipline Specific Elective Course – II<br/>PARALLEL AND DISTRIBUTED COMPUTING</b> |
| <b>Code</b>         | <b>19DAU40A</b>  |
|                     | <b>On completion of the course, students would be able to</b>                          |
| CO-1                | Understand the parallel programming platform.  |
| CO-2                | Analyze the design of parallel algorithm.  |
| CO-3                | Able to Understand System Models and Network Basics                                    |
| CO-4                | Able to understand Distributed Objects and web services                                |
| CO-5                | Be Familiar with Name Services and Distributed Transaction                             |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Discipline Specific Elective Course – II<br/>INTERNET OF THINGS</b> |
| <b>Code</b>         | <b>19DAU40B</b>  |
|                     | <b>On completion of the course, students would be able to</b>          |
| CO-1                | Explain the concept of IoT.  |
| CO-2                | Analyze various protocols for IoT.                                     |
| CO-3                | Design a PoC of an IoT system using Raspberry Pi/Arduino.              |
| CO-4                | Apply data analytics and use cloud offerings related to IoT.           |
| CO-5                | Analyze applications of IoT in real time scenario.                     |

|               |             |
|---------------|-------------|
| <b>Course</b> | <b>Core</b> |
|---------------|-------------|

|              |   |
|--------------|---|
| <b>Title</b> | <b>LAB XIV(ARTIFICIAL INTELLIGENCE LAB)</b>                   |
| <b>Code</b>  | <b>19DAU41</b>  |
|              | <b>On completion of the course, students would be able to</b> |
| CO-1         | Solve problems using AI Concepts.                             |
| CO-2         | Demonstrate the real world problems.                          |
| CO-3         | Apply various data structure algorithms to solve problems.    |

|               |   |
|---------------|---|
| <b>Course</b> | <b>Core</b>   |
| <b>Title</b>  | <b>LAB-XV (MINING OF MASSIVE DATA LAB)</b>                      |
| <b>Code</b>   | <b>19DAU42</b>  |
|               | <b>On completion of the course, students would be able to</b>   |
| CO-1          | Apply data mining and map reducing techniques for massive data. |
| CO-2          | Handle larger file management in Hadoop.                        |
| CO-3          | Mine social graphs in massive dataset.                          |



Since 1947

# PSG College of Arts & Science Coimbatore – 641 014

## Programme: BCA

### Programme Outcomes

|      | <b>On completion of the programme, the student will be able to</b>   |
|------|--|
| PO-1 | Become Knowledge in the Subject of Computer Applications and apply the principles of the same to the needs of the Employer |
| PO-2 | Gain Analytical skills in the fields of computer science   |
| PO-3 | Understand and appreciate professional ethics, community living and Nation Building  |
| PO-4 | Understand the concepts of key areas in computer science and applications  |
| PO-5 | Analyze and apply latest technologies to solve problems in the areas of computer applications                              |
| PO-6 | Analyze and synthesis computing systems through quantitative and qualitativetechniques                                     |
| PO-7 | Apply technical and professional skills to excel in software industry  |
| PO-8 | Develop practical skills to provide solutions to industry, society and business  |

### Programme Specific Outcomes

|       | <b>On completion of the programme, the student will be able</b>  |
|-------|--|
| PSO-1 | Apply the knowledge of Computer Applications in the domain of Banking, Insurance, Health, Robotics, Environment and Biology                        |
| PSO-2 | Solve the complex problems in the field of Computer Applications with an understanding of the societal, legal and cultural impacts of the solution |
| PSO-3 | Understand analyze and develop business applications for efficient design of computer-based systems of varying complexity                          |
| PSO-4 | Form a part of member in a team with right attitudes   |

### Course Outcomes

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>PROBLEM SOLVING AND COMPUTER<br/>PROGRAMMING USING C</b>  |
| <b>Code</b>         | <b>18CAU01</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Analyze a problem and implement or execute it.  |
| CO-2                | Program efficiently using operators, Input and Output functions.  |
| CO-3                | Efficiently use decision making, control statements and the concept of reusability can be implemented by using functions in a |
| CO-4                | Manipulate strings, implement array and pointer references.   |
| CO-5                | Create a file and implement various file handling operations  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>COMPUTER SYSTEM ARCHITECTURE</b>                  |
| <b>Code</b>         | <b>18CAU02</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Create an idea about digital design principles.               |
| CO-2                | Identify the functions of data processing circuits.           |
| CO-3                | Apply and design different arithmetic circuits                |
| CO-4                | Analyze the uses of registers and counters.                   |
| CO-5                | Formulate an idea of CPU processing and Memory organization   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>LAB – I (C PROGRAMMING LAB)</b>                   |
| <b>Code</b>         | <b>18CAU04</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | To write diversified solution using C language.               |

|      |  |
|------|--|
| CO-2 | Solve problems using iteration statements.     |
| CO-3 | Develop programs using Command line arguments. |
| CO-4 | Implement File handling operations.            |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>PROGRAMMING IN C++</b>  |
| <b>Code</b>         | <b>18CAU06</b>  |
|                     | <b>On completion of the course, students would be able to</b>                   |
| CO-1                | To use OOP's concepts to enhance problem solving and programming skills in C++. |
| CO-2                | Implement inheritance and overload operator.                                    |
| CO-3                | Effectively express about functions, classes and objects.                       |
| CO-4                | Effectively implement File handling objects and Streams classes.                |
| CO-5                | Solve problems using templates and command line arguments.                      |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>DATA STRUCTURES</b>   |
| <b>Code</b>         | <b>18CAU07</b>  |
|                     | <b>On completion of the course, students would be able to</b>                                 |
| CO-1                | Create application using basic data structures.   |
| CO-2                | Create a Linked list, Traverse and search a item in a linked list.                            |
| CO-3                | Solve problems using Stack and Queue.   |
| CO-4                | Apply algorithm for solving problems like sorting, searching, insertion and deletion of data. |
| CO-5                | Solve the problem of finding shortest path using Trees and Graph.                             |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>LAB – III (C++ PROGRAMMING LAB)</b>                         |
| <b>Code</b>         | <b>18CAU09</b>  |
|                     | <b>On completion of the course, students would be able to</b>           |
| CO-1                | Use the characteristics of an object-oriented programming language in a |

|      |  |
|------|--|
|      | program  |
| CO-2 | Use the basic object-oriented design principles in computer problem solving. |
| CO-3 | Program with advanced features of the C++ programming language.              |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>LAB-IV(DATA STRUCTURES LAB)</b>                             |
| <b>Code</b>         | <b>18CAU10</b>  |
|                     | <b>On completion of the course, students would be able to</b>           |
| CO-1                | Select and apply the data structure to suit any given problem.          |
| CO-2                | Design their own data structure according to the application need.      |
| CO-3                | Evaluate an expression using stack application                          |
| CO-4                | Apply the algorithm design techniques to any of the real world problem. |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>LINUX PROGRAMMING</b>   |
| <b>Code</b>         | <b>19CAU11</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Identify and use Linux utilities to create and manage simple file processing operations, organize directory structures with appropriate security. |
| CO-2                | Work confidently in Linux environment.  |
| CO-3                | Work with shell script to automate different tasks as Linux   |
| CO-4                | Illustrate file processing operations such as standard I/O and formatted I/O.   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>RELATIONAL DATABASE MANAGEMENT SYSTEMS</b>        |
| <b>Code</b>         | <b>19CAU12</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Create a Database Design.                                     |
| CO-2                | Analyze the use of E-R Model.                                 |
| CO-3                | Formulate an Idea of Relational Algebra and Normalization     |
| CO-4                | Learn Basics of SQL Schema, Constraints, Queries and Views.   |

|      |   |
|------|---|
| CO-5 | Efficiently use SQL Programming Techniques. |
|------|---|

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>OPERATING SYSTEMS</b>  |
| <b>Code</b>         | <b>19CAU13</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Comprehend the techniques used to implement the process manager.   |
| CO-2                | Demonstrate the different process or thread synchronization methods and the Tradeoffs between them.  |
| CO-3                | Implement CPU Scheduling algorithms for process scheduling and deploy a deep knowledge about the memory management concepts including swapping, paging and segmentation. |
| CO-4                | Comprehend virtual memory abstractions in operating systems.   |
| CO-5                | Design and develop file system interfaces, etc.  |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>DATA COMMUNICATIONS AND NETWORKING</b>   |
| <b>Code</b>         | <b>19CAU14</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Independently understand basic network terminologies.  |
| CO-2                | Differentiate Analog and Digital Data and signals.   |
| CO-3                | Compare and contrast the data transmission media.  |
| CO-4                | Analyze the requirement of error detection and correction techniques.                                  |
| CO-5                | Analyze the features and operations of various application layer protocols such as HTTP, DNS and SNMP. |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>LAB – V (LINUX PROGRAMMING LAB)</b>               |
| <b>Code</b>         | <b>19CAU16</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Ability to Understand the Linux environment                   |

|      |  |
|------|--|
| CO-2 | Ability to perform to perform the file management and multiple tasks using shell scripts in Linux environment. |
|------|--|

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>LAB – VI (RDBMS LAB)</b>                          |
| <b>Code</b>         | <b>19CAU17</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Access the knowledge about SQL Fundamentals.                  |
| CO-2                | Handle with different Data Base languages                     |
| CO-3                | Create the Unary operation and Table View.                    |
| CO-4                | Formulate an Idea about Database packages.                    |
| CO-5                | Know about Database connectivity with front-end.              |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>JAVA PROGRAMMING</b>   |
| <b>Code</b>         | <b>19CAU18</b>   |
|                     | <b>On completion of the course, students would be able to</b>                          |
| CO-1                | Gain knowledge and design the basic problem solution using Object Oriented Programming |
| CO-2                | Program efficiently using Inheritance, Packages and Exception handling.                |
| CO-3                | Efficiently implement multithreading and string operations.                            |
| CO-4                | Understand and implement file handling operations and Applets                          |
| CO-5                | Develop effective API using AWT.   |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>DATA WAREHOUSING AND MINING</b>                              |
| <b>Code</b>         | <b>19CAU19</b>   |
|                     | <b>On completion of the course, students would be able to</b>            |
| CO-1                | Create an Idea about Data Warehousing principles.                        |
| CO-2                | Identify the Data Warehouse process Managers Capacity, Tuning & Testing. |
| CO-3                | Analyze the use of Data Mining and its Issues.                           |

|      |  |
|------|--|
| CO-4 | Formulate an Idea about Data Mining and Clustering Techniques. |
| CO-5 | Analyze the Use of Association Rules, Web & Spatial Mining.    |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>DISTRIBUTED TECHNOLOGIES</b>                                 |
| <b>Code</b>         | <b>19CAU20</b>   |
|                     | <b>On completion of the course, students would be able to</b>            |
| CO-1                | Utilize the .NET framework to build distributed enterprise applications. |
| CO-2                | Install ASP.Net.   |
| CO-3                | Demonstrate concepts on validation and rich control.                     |
| CO-4                | Develop web pages and applications using ASP.NET and VB.NET respectively |
| CO-5                | Connect the front end with the back end efficiently using ADO.NET.       |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>SOFTWARE PROJECT MANAGEMENT</b>                            |
| <b>Code</b>         | <b>19CAU21</b>   |
|                     | <b>On completion of the course, students would be able to</b>          |
| CO-1                | Create an Idea about Data Warehousing principles.                      |
| CO-2                | Identify the Data Warehouse process Managers Capacity, Tuning&Testing. |
| CO-3                | Analyze the use of Data Mining and its Issues                          |
| CO-4                | Formulate an Idea about Data Mining and Clustering Techniques.         |
| CO-5                | Analyze the Use of Association Rules, Web & Spatial Mining.            |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>LAB – VII (JAVA PROGRAMMING LAB)</b>              |
| <b>Code</b>         | <b>19CAU23</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Write diversified solution using java.                        |
| CO-2                | Solve problems using exception handling and multithreading.   |
| CO-3                | Develop programs using string and files.                      |
| CO-4                | Implement program using applet and event handling             |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>LAB – VIII(DISTRIBUTED TECHNOLOGIES LAB)</b>      |
| <b>Code</b>         | <b>19CAU24</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Create dynamic web pages using ASP.NET.                       |
| CO-2                | Create interactive applications using VB.NET.                 |
| CO-3                | Create interactive applications using VB.NET.                 |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>PHP and MySql</b>  |
| <b>Code</b>         | <b>19CAU25</b>   |
|                     | <b>On completion of the course, students would be able to</b>          |
| CO-1                | Implement and use the features and syntax of programming language PHP. |
| CO-2                | Manipulate strings, implement array and pointer references             |
| CO-3                | Analyze and solve various database tasks using PHP& MYSQL.             |
| CO-4                | Handle file operations Efficiently.                                    |
| CO-5                | Design a real –time application Using PHP And MY SQL                   |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>ADVANCED JAVA PROGRAMMING</b>                          |
| <b>Code</b>         | <b>19CAU26</b>   |
|                     | <b>On completion of the course, students would be able to</b>      |
| CO-1                | Create web forms using AWT Components.                             |
| CO-2                | Access (store, update, retrieve) the data from database using SQL. |
| CO-3                | Create and develop web applications using Servlet and JSP          |
| CO-4                | Implement a Java program using networking concepts.                |
| CO-5                | Develop and implement server-side programs.                        |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>CRYPTOGRAPHY AND NETWORK SECURITY</b> |
|---------------------|---|

|             |   |
|-------------|---|
| <b>Code</b> | <b>19CAU27</b>  |
|             | <b>On completion of the course, students would be able to</b>                   |
| CO-1        | Understand the cryptography Principles and techniques.                          |
| CO-2        | Identify and Analyze security problems for network applications.                |
| CO-3        | Apply Appropriate security techniques to solve security problem.                |
| CO-4        | Analyze security protocols and methods to solve the specific security problems. |
| CO-5        | Ability to develop secure application and inject secure coding in applications  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>CLOUD APPLICATIONS AND DEVELOPMENT</b>            |
| <b>Code</b>         | <b>19CAU28</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Apply the core principles of cloud Computing.                 |
| CO-2                | Fabricate concepts of cloud services and platforms.           |
| CO-3                | Have knowledge on Cloud Application design.                   |
| CO-4                | Standardize Cloud Application Benchmarking                    |
| CO-5                | Apply cloud concept in Industry, Healthcare and Education     |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>Discipline Specific Elective<br/>Course-I: FUZZY LOGIC</b>              |
| <b>Code</b>         | <b>19CAU29 A</b>  |
|                     | <b>On completion of the course, students would be able to</b>                       |
| CO-1                | Familiar with the fuzzy logic.  |
| CO-2                | Analyze the concepts of fuzzy sets.   |
| CO-3                | Recognize various fuzzy relations and rules.  |
| CO-4                | Explore on fuzzy logic in Control Engineering.                                      |
| CO-5                | Apply the relative ideas of fuzzy logic with other disciplines like AI and Database |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Discipline Specific Elective<br/>DOMAIN SPECIFIC BUSINESS APPLICATIONS</b> |
| <b>Code</b>         | <b>19CAU29 B</b>  |
|                     | <b>On completion of the course, students would be able to</b>                 |
| CO-1                | Analyze the E-Commerce Trade Cycle.   |
| CO-2                | Apply the various Techniques in Internet Banking.                             |
| CO-3                | Suggest how to use E-Business and E-Market.                                   |
| CO-4                | Use the various Methodologies in ERP.   |
| CO-5                | Develop the methods in EDI and Internet security.                             |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>LAB – IX ( PHP and MySql LAB)</b>                 |
| <b>Code</b>         | <b>19CAU30</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Learn the object oriented paradigm in PHP                     |
| CO-2                | Solve problems using conditionals statements.                 |
| CO-3                | Create dynamic Webpages and Web applications                  |
| CO-4                | Setup PHP and MYSQL configuration                             |
| CO-5                | Build functional web application using PHP & MYSQL            |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>LAB – X (ADVANCED JAVA PROGRAMMING LAB)</b>  |
| <b>Code</b>         | <b>19CAU31</b>   |
|                     | <b>On completion of the course, students would be able to</b>                                  |
| CO-1                | Create the web forms using AWT Components.   |
| CO-2                | Develop Java program and perform various operations (select, update, delete, etc.,) using SQL. |
| CO-3                | Implement API using Servlet.   |
| CO-4                | Build interactive web applications using JSP.  |
| CO-5                | Implement various networking commands using Java.  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>WEB SERVICES</b>                                  |
| <b>Code</b>         | <b>19CAU33</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Write valid XML that conforms with existing DTD.              |
| CO-2                | Design a responsive web site using HTML.                      |
| CO-3                | Demonstrate Rich Internet Application                         |
| CO-4                | Build Dynamic website using Java Script                       |
| CO-5                | Design a secured XML page using digital signature encryption. |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>BIG DATA ANALYTICS</b>  |
| <b>Code</b>         | <b>19CAU34</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Realize the insight and challenge of Big Data   |
| CO-2                | Analyze non-relational databases, the techniques for storing and processing huge volumes of structured and unstructured data. |
| CO-3                | To understand the advantages that Big Data can offer to businesses and organizations.   |
| CO-4                | To use current practices, skills, tools, and technologies required for computing practice.                                    |
| CO-5                | Design distributed systems that manage a huge amount of data using No SQL   |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>SOFT COMPUTING</b>   |
| <b>Code</b>         | <b>19CAU35</b>   |
|                     | <b>On completion of the course, students would be able to</b>              |
| CO-1                | Represent their knowledge using fuzzy logic                                |
| CO-2                | Integrate various soft computing techniques for complex problems           |
| CO-3                | Update themselves with different types of memory                           |
| CO-4                | Apply Genetic algorithms in their own domain                               |
| CO-5                | Identify various applications to apply suitable soft computing techniques. |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>ROBOTICS</b>  |
| <b>Code</b>         | <b>19CAU36 A</b>  |
|                     | <b>On completion of the course, students would be able to</b>                 |
| CO-1                | Analyze the importance of robotics in today and in future                     |
| CO-2                | Configure Robot and its subsystems  |
| CO-3                | Study about the principles of robot programming and handle with typical robot |
| CO-4                | Understand the importance of Robotic Vision                                   |
| CO-5                | Identify the importance of IoT  |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>ADVANCED DATABASE TECHNOLOGIES</b>                       |
| <b>Code</b>         | <b>19CAU36B</b>  |
|                     | <b>On completion of the course, students would be able to</b>        |
| CO-1                | Acquainted with query compiler, database security and authorization. |
| CO-2                | Appreciate the distributed database concepts.                        |
| CO-3                | Construct object-oriented database.                                  |
| CO-4                | Recognize multimedia database and knowledge database.                |
| CO-5                | Utilize the emerging web databases.                                  |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>LAB XI – (WEB SERVICES LAB)</b>                                  |
| <b>Code</b>         | <b>19CAU37</b>   |
|                     | <b>On completion of the course, students would be able to</b>                |
| CO-1                | Design and implement dynamic websites with good sense of designing.          |
| CO-2                | Have a Good grounding of Web Application Terminologies like XML, JavaScript. |
| CO-3                | Develop E – Commerce applications.   |
| CO-4                | Develop Web Application frontend and backend                                 |
| CO-5                | A complete knowledge about Web Development in XML, JAVA SCRIPT.              |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>Lab-XII (BIG DATA ANALYTICS LAB)</b>   |
| <b>Code</b>         | <b>19CAU38</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Create on Big Data applications Using Hadoop, MongoDB and Casandra.  |
| CO-2                | To use a well-established product that has similar functionality to many RDBMS systems you've used before. |
| CO-3                | Analyze non-relational data using Hadoop, MongoDB and Cassandra  |
| CO-4                | To configure choices for stability, optimization, and scheduling of their distributed systems.             |
| CO-5                | Create on Big Data applications Using Hadoop, MongoDB and Casandra.  |



Since 1947

# PSG College of Arts & Science Coimbatore – 641 014

## Programme: BBA

### Programme Outcomes

|      | <b>On completion of the programme, the student will be able to</b>  |
|------|---|
| PO-1 | Become knowledgeable in the subject of Business Administration and apply the principles of the same to the needs of the Employer / own Business or Enterprise |
| PO-2 | Gain analytical skills in the field of Business Administration  |
| PO-3 | Understand and appreciate professional ethics, community living and Nation-building initiatives   |
| PO-4 | Identify, formulate and analyze business management problems, reaching substantiated conclusions using principles of business management and social sciences  |
| PO-5 | Create, select and apply appropriate methods, techniques and resources for successful business operations   |
| PO-6 | Communicate effectively with the business community and society   |
| PO-7 | Understand the need for rational decision making  |
| PO-8 | Develop desire for professional development and life-long learning  |

### Programme Specific Outcomes

|       | <b>On completion of the programme, the student will be able</b>  |
|-------|--|
| PSO-1 | Apply the knowledge of social science theories and concepts in the domain of Business Administration                                   |
| PSO-2 | Solve the complex problems in the field of business with an understanding of the societal, legal and cultural impacts of the solutions |
| PSO-3 | Become effective and efficient entrepreneurs and managers  |
| PSO-4 | Form part of a team as a member with right attitudes   |

### Course Outcomes

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>MANAGEMENT PRINCIPLES AND PRACTICES</b>                                      |
| <b>Code</b>         | <b>18MSU01</b>   |
|                     | <b>On completion of the course, students would be able to</b>                            |
| CO-1                | Understand the basics of management functions  |
| CO-2                | Have greater insight into planning and decision making processes.                        |
| CO-3                | Understand bases of departmentation, groups and coordinate                               |
| CO-4                | Lead and motivate people in organization.  |
| CO-5                | Know the fundamentals of control process and techniques for organisational effectiveness |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>ACCOUNTING FOR MANAGERS</b>  |
| <b>Code</b>         | <b>18MSU02</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Gain knowledge on the basics accounting procedures   |
| CO-2                | Adopt subsidiary books for the proper implementation of business transactions.                         |
| CO-3                | Assess the profit/loss account of the company and to frame financial strategies according to it.       |
| CO-4                | Adopt appropriate method of depreciation in companies  |
| CO-5                | Have in-depth knowledge on exchange of bills and preparation of accounts of non- trading organization. |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>BUSINESS MATHEMATICS AND STATISTICS</b>                     |
| <b>Code</b>         | <b>18MSU03</b>  |
|                     | <b>On completion of the course, students would be able to</b>           |
| CO-1                | Apply the various mathematical techniques related to business concepts. |
| CO-2                | Identify the business and economic data graphically and numerically and |

|      |   |
|------|---|
|      | explain relationship between graphs and numerical data.   |
| CO-3 | Organize and summarize data by using descriptive Statistics and appropriate Statistical graphs  |
| CO-4 | Predict relevant relationship between business variables using Correlation and regression analysis.   |
| CO-5 | Demonstrate knowledge and understanding of index number theory and methods and be able to provide practical solution to general aggregation problems. |
| CO-6 | Solve problems related to computational tool using MS Excel.  |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core ORGANISATIONAL BEHAVIOUR</b>   |
| <b>Code</b>         | <b>18MSU04</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Understand the fundamentals of Organisational Behaviour  |
| CO-2                | Know individual differences and individual behaviour   |
| CO-3                | Demonstrate an understanding of group dynamics, its practical implications and conflicts that arise in real life situations in organisations |
| CO-4                | Able to explain the concepts of leadership, communication, organisational culture, organisational change and stress                          |
| CO-5                | Have an holistic knowledge about the relevance of individual and group behaviour in work environment   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core MANAGERIAL ECONOMICS</b>  |
| <b>Code</b>         | <b>18MSU05</b>  |
|                     | <b>On completion of the course, students would be able to</b>                     |
| CO-1                | Understand the relevance of economic concepts to business environment             |
| CO-2                | Relate demand and supply in business forecasting                                  |
| CO-3                | Take pricing decisions under different market morphologies                        |
| CO-4                | Understand the significance macroeconomic concepts in making managerial decisions |
| CO-5                | Apply strategies to deal with economic conditions                                 |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Interdisciplinary Course<br/>COST ACCOUNTING (MS)</b>  |
| <b>Code</b>         | <b>18MSU06</b>  |
|                     | <b>On completion of the course, students would be able to</b>                                     |
| CO-1                | Have a thorough knowledge on the principles of cost accounting                                    |
| CO-2                | Prepare a cost statement and quotation for any product.   |
| CO-3                | Organize the inventories, scheming labours payroll and control over overhead.                     |
| CO-4                | Gain an insight on the various costing practices of the industries.                               |
| CO-5                | Comprehend the impact of variable cost of a product on the volume of production and profit margin |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>PRODUCTION AND OPERATIONS MANAGEMENT</b>  |
| <b>Code</b>         | <b>18MSU07</b>  |
|                     | <b>On completion of the course, students would be able to</b>                                     |
| CO-1                | Well versed with the basic knowledge on production and operations management                      |
| CO-2                | Conceptually and analytically aware of process description, capacity analysis and decision making |
| CO-3                | Understand the planning and control, maintenance and material handling processes                  |
| CO-4                | Learn the aspects of materials management   |
| CO-5                | Aware of the significant developments in the Quality Management System                            |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>HUMAN RESOURCE MANAGEMENT</b>                     |
| <b>Code</b>         | <b>18MSU08</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Ability to understand functions of HRM                        |
| CO-2                | Acquire foundational knowledge on designing a job             |

|      |  |
|------|--|
| CO-3 | Formulate training policies and facilitate career development                        |
| CO-4 | Understand basic concepts relevant to performance management                         |
| CO-5 | Design compensation package and demonstrate knowledge on recent trends in management |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>MARKETING MANAGEMENT</b>                          |
| <b>Code</b>         | <b>18MSU09</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Manage competition in marketing                               |
| CO-2                | Bring critical thinking in market segmentation                |
| CO-3                | Manage product in different phases in its product life cycle  |
| CO-4                | Provide solutions for marketing promotion                     |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>BUSINESS AND CORPORATE LAW</b>   |
| <b>Code</b>         | <b>18MSU10</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | To deal effectively with various disputes related to contract under different circumstances  |
| CO-2                | Demonstrate an understanding of unlawful agreements, its practical implications and how to file suit for the recovery of damages of breach of contract.  |
| CO-3                | Apply the various provisions of contract dealing with the sale of movable goods  |
| CO-4                | Have an holistic knowledge on the various types of companies and the legal requirements needed for the formation of company                              |
| CO-5                | Know about the rights and liabilities of membership holders and have knowledge on the various modes of winding up and the consequences relating thereto. |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>LAB: OFFICE AUTOMATION SYSTEM</b>   |
| <b>Code</b>         | <b>18MSU11</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Have an introductory formatting techniques and presentation styles using MS Word.                         |
| CO-2                | Have a working knowledge of producing a mail merge using MS Word.   |
| CO-3                | Acquire the knowledge in the use of basic functions and formulas using MS Excel.                          |
| CO-4                | Have a working knowledge of using clip art to enhance ideas and information in a powerpoint presentation. |
| CO-5                | Do simple arithmetic calculations using MS Access   |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>APPLIED OPERATIONS RESEARCH</b>  |
| <b>Code</b>         | <b>18MSU12</b>   |
|                     | <b>On completion of the course, students would be able to</b>                                    |
| CO-1                | Formulate OR models to solve real life problems by using graphical and simplex methods.          |
| CO-2                | Analyze the advanced methods for large scale transportation and assignment problems.             |
| CO-3                | Evaluate sequencing problems of scheduling jobs on two and three machine                         |
| CO-4                | Apply various methods to select optimum strategies to win the game.                              |
| CO-5                | Apply various Queuing models to eliminate customers/clients waiting period for service delivery. |
| CO-5                | Undertake a project, identify bottlenecks and discover alternate work plan for a project.        |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>RESEARCH METHODS FOR MANAGEMENT</b>                                 |
| <b>Code</b>         | <b>18MSU14</b>  |
|                     | <b>On completion of the course, students would be able to</b>                   |
| CO-1                | Understand the fundamentals of research   |
| CO-2                | Able to identify a research problem and formulate hypothesis                    |
| CO-3                | Know to design their research and develop tool for data collection              |
| CO-4                | Understand the process of data collection and able to handle data analytically. |
| CO-5                | Able to write a research report and be aware of applications                    |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>ENTREPRENEURSHIP DEVELOPMENT</b>   |
| <b>Code</b>         | <b>18MSU15</b>   |
|                     | <b>On completion of the course, students would be able to</b>                        |
| CO-1                | Build knowledge on the basic concept of Entrepreneurship.                            |
| CO-2                | Become familiar with EDP and institutions supporting the entrepreneurs.              |
| CO-3                | Enrich their understanding on various forms of business organizations and EDP.       |
| CO-4                | Gain insight in developing a lean business model.                                    |
| CO-5                | Support in-depth learning in project management and preparation of a project report. |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>BUSINESS ETHICS &amp; CORPORATE GOVERNANCE</b>                                     |
| <b>Code</b>         | <b>18MSU16</b>   |
|                     | <b>On completion of the course, students would be able to</b>                                  |
| CO-1                | Understand business ethics and its importance  |
| CO-2                | Be able to apply theories of ethics in resolving controversial issues in business              |
| CO-3                | Know the impact of ethics on business  |
| CO-4                | Understand emerging challenges in business, corporate governance concept, mechanism and models |
| CO-5                | Understand Corporate Social Responsibility   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>RETAIL MANAGEMENT</b>   |
| <b>Code</b>         | <b>18MSU17</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Understand the ways that retailers use marketing tools and techniques to interact with their customers. |
| CO-2                | Apply retail promotion during recession   |
| CO-3                | Implement new technology in retail operation  |
| CO-4                | Build brand for merchandise to manage competition   |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Interdisciplinary Course (IDC)<br/>FINANCIAL MANAGEMENT</b>                                 |
| <b>Code</b>         | <b>18MSU18</b>   |
|                     | <b>On completion of the course, students would be able to</b>                                  |
| CO-1                | Know the importance of managing finance of a company.  |
| CO-2                | Understand and analyse the financial performance of a company.                                 |
| CO-3                | Prepare a capital budget and analyse the cost of capital of a company                          |
| CO-4                | Evaluate and take good decisions for an optimum capital structure of a company.                |
| CO-5                | Gain an insight on the drafting a dividend policy of a company.                                |
| CO-6                | Comprehend the impact and importance of working capital management on performance of a company |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>PRACTICAL - CORPORATE ETIQUETTE</b>  |
| <b>Code</b>         | <b>18MSU19</b>   |
|                     | <b>On completion of the course, students would be able to</b>                              |
| CO-1                | Build knowledge in the basic concept of etiquette, hard skills and soft skills.            |
| CO-2                | Be familiar with business conversation and grooming skills.                                |
| CO-3                | Enrich their understanding of an effective business meeting and cubicle manners.           |
| CO-4                | Gain insight to develop good networking skills and enhancing business entertaining skills. |
| CO-5                | Support in preparing a resume and learn interviewing skills.                               |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>TAXATION</b>   |
| <b>Code</b>         | <b>18MSU20</b>   |
|                     | <b>On completion of the course, students would be able to</b>      |
| CO-1                | Construct, assess and evaluate the taxation.                       |
| CO-2                | Assess the taxable salary and total income.                        |
| CO-3                | Assess the computation of house property and business income       |
| CO-4                | Have in depth knowledge on capital gains and other sources income. |
| CO-5                | Learn the computation of tax liability                             |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>EVENT MANAGEMENT</b>                              |
| <b>Code</b>         | <b>18MSU21</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Gain the concept of event.                                    |
| CO-2                | Understand the concept of event management.                   |
| CO-3                | Know the event budget and event marketing.                    |
| CO-4                | Have a clear understanding on event promotion.                |
| CO-5                | Understand the basis of corporate event management.           |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>E-BUSINESS</b>  |
| <b>Code</b>         | <b>18MSU22</b>  |
|                     | <b>On completion of the course, students would be able to</b>         |
| CO-1                | Apply the principles of E-business to manage competition              |
| CO-2                | Implement the technological infrastructure in e-Business              |
| CO-3                | Retain best suitable e-Business strategies for Small Scale industries |
| CO-4                | Eliminate the risks and barriers in the adoption of E-Business        |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>INDUSTRIAL LAW</b>                                   |
| <b>Code</b>         | <b>18MSU23</b>   |
|                     | <b>On completion of the course, students would be able to</b>    |
| CO-1                | Have knowledge about Factories Act 1948                          |
| CO-2                | Social Security Legislations-Workmen's compensation Act 1923     |
| CO-3                | Employees Provident Funds and Miscellaneous Provisions Act- 1952 |
| CO-4                | Payment of Wages Act- 1936                                       |
| CO-5                | Industrial Dispute Act 1947                                      |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Discipline Specific Elective - I<br/>SERVICES MARKETING</b>          |
| <b>Code</b>         | <b>18MSU25A</b>   |
|                     | <b>On completion of the course, students would be able to</b>           |
| CO-1                | Gain the concept of services marketing                                  |
| CO-2                | Understand the evolution and models in service sectors                  |
| CO-3                | Know the factors influencing the consumer behavior in service marketing |
| CO-4                | Have a clear understanding on service and relationship marketing        |
| CO-5                | Understand service marketing strategies for different industries        |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Discipline Specific Elective - I<br/>MERCHANDISE MANAGEMENT</b>               |
| <b>Code</b>         | <b>18MSU25B</b>  |
|                     | <b>On completion of the course, students would be able to</b>                    |
| CO-1                | Understand the basics of Merchandising Management.                               |
| CO-2                | Gain an insight into the Merchandise Planning.                                   |
| CO-3                | Gather expertise on Buying Process in Merchandising.                             |
| CO-4                | Understand the Significance of Performance Evaluation in Merchandise Management. |
| CO-5                | Have a holistic knowledge about Visual Merchandising.                            |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>STRATEGIC MANAGEMENT</b>   |
| <b>Code</b>         | <b>18MSU26</b>   |
|                     | <b>On completion of the course, students would be able to</b>                                    |
| CO-1                | Acquire knowledge on the basic concept of strategic management.                                  |
| CO-2                | Be familiar with components of the business environment and can understand strategic analysis.   |
| CO-3                | Enrich their understanding on strategic planning and formulation.                                |
| CO-4                | Gain insight of how to implement a strategy and do strategic evaluation and control.             |
| CO-5                | Have in-depth knowledge on global strategic management practices and strategic issues in future. |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>EXPORT MARKETING</b>  |
| <b>Code</b>         | <b>18MSU27</b>  |
|                     | <b>On completion of the course, students would be able to</b>               |
| CO-1                | Gain knowledge on basics of exporting.                                      |
| CO-2                | Understand the export assistance available for exporters                    |
| CO-3                | Have insight on export procedures   |
| CO-4                | Understand the export financing procedure, export and import documentation. |
| CO-5                | Knowledge on foreign exchange regulations                                   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>SUPPLY CHAIN MANAGEMENT</b>                       |
| <b>Code</b>         | <b>18MSU28</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Adopt best distribution design for business                   |
| CO-2                | Implement best business model for logistics                   |
| CO-3                | Manage risk in various operations in SCM                      |
| CO-4                | Use best integrated IT solution for the business              |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>FINANCIAL SERVICES</b>  |
| <b>Code</b>         | <b>18MSU29</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Interpret consequences of economic activity on financial environment                                  |
| CO-2                | Acquire foundational knowledge on financial markets   |
| CO-3                | Formulate pricing policies under IPOs and investor protection regulations                             |
| CO-4                | Understand basic macroeconomic concepts relevant to financial services like leasing and hire purchase |
| CO-5                | Recognize the concepts of online trading activities and apply it                                      |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Discipline Specific Elective - II<br/>PERFORMANCE MANAGEMENT SYSTEMS</b> |
| <b>Code</b>         | <b>18MSU30A</b>   |
|                     | <b>On completion of the course, students would be able to</b>               |
| CO-1                | Gain the concept of performance management system.                          |
| CO-2                | Understand the mutual expectations of performance management system.        |
| CO-3                | Know the organizational structure and operational process.                  |
| CO-4                | Have a clear understanding on performance expectations and metrics.         |
| CO-5                | Understand the basis of employee assessments.                               |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Discipline Specific Elective - II<br/>EMPLOYEE RELATIONSHIP MANAGEMENT</b>                                  |
| <b>Code</b>         | <b>18MSU30B</b>  |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Understand the contemporary core issues of Employees Relationship Management                                   |
| CO-2                | Understand the significance of managing the relations between employees and employers, employees and employees |
| CO-3                | Know the importance of effective Human Resources Information Systems   |
| CO-4                | Create and cultivate a motivated and productive workforce  |
| CO-5                | Establish a work environment conducive to perform  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Generic Elective Course (EDC)<br/>EVENT MARKETING AND MANAGEMENT</b> |
| <b>Code</b>         | <b>18GECMSU</b>   |
|                     | <b>On completion of the course, students would be able to</b>           |
| CO-1                | Be familiar with event, its types and event activities.                 |
| CO-2                | Build knowledge in the basic concept of event management                |
| CO-3                | Enrich their understanding on event marketing.                          |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>INDUSTRIAL MANAGEMENT AND ENTREPRENEURSHIP</b>                   |
| <b>Code</b>         | <b>18CDU14</b>  |
|                     | <b>On completion of the course, students would be able to</b>       |
| CO-1                | Interpret management process  |
| CO-2                | Acquire foundational knowledge on production management             |
| CO-3                | Formulate production plans and quality polices for garment industry |
| CO-4                | Understand basic concept of entrepreneurship                        |
| CO-5                | Identify support available to entrepreneurs                         |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>MANAGERIAL COMPETENCIES</b>                                |
| <b>Code</b>         | <b>19CAP27</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Gain the concept of business organization.                    |
| CO-2                | Understand the types and functions of organization            |
| CO-3                | Know the motivational techniques and communication process.   |
| CO-4                | Have a clear understanding on stress management.              |
| CO-5                | Understand the various corporate etiquettes.                  |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>ENTREPRENEURSHIP DEVELOPMENT</b>                                |
| <b>Code</b>         | <b>19NMB28</b>   |
|                     | <b>On completion of the course, students would be able to</b>      |
| CO-1                | Build knowledge on the basic concept of Entrepreneurship.          |
| CO-2                | Become familiar with business ideas.                               |
| CO-3                | Enrich their understanding on EDP.                                 |
| CO-4                | Gain insight in institutions supporting the entrepreneurs.         |
| CO-5                | Understand project management and preparation of a project report. |



Since 1947

# PSG College of Arts & Science Coimbatore – 641 014

## Programme: BBA Information System

### Programme Outcomes

|      | <b>On completion of the programme, the student will be able to</b>  |
|------|---|
| PO-1 | Become knowledgeable in the subject of Business Administration and apply the principles of the same to the needs of the Employer / own Business or Enterprise                     |
| PO-2 | Gain analytical skills in the field of Business Administration  |
| PO-3 | Understand and appreciate professional ethics, community living and Nation-building initiatives   |
| PO-4 | Identify, formulate and analyze business management problems, reaching substantiated conclusions using principles of business management, information systems and social sciences |
| PO-5 | Create, select and apply appropriate methods, techniques and resources for successful IT enabled business operations  |
| PO-6 | Communicate effectively with the business community and society   |
| PO-7 | Understand the need for rational decision making  |
| PO-8 | Develop desire for professional development and life-long learning  |

### Programme Specific Outcomes

|       | <b>On completion of the programme, the student will be able</b>  |
|-------|--|
| PSO-1 | Apply the knowledge of social science theories and concepts in the domain of Business Administration                                   |
| PSO-2 | Solve the complex problems in the field of business with an understanding of the societal, legal and cultural impacts of the solutions |
| PSO-3 | Become effective and efficient entrepreneurs and managers in the field of IT   |
| PSO-4 | Form part of a team as a member with right attitudes   |

### Course Outcomes

| Course Title | Core<br>MANAGEMENT PRINCIPLES AND PRACTICES  |
|--------------|--|
| <b>Code</b>  | <b>18ISU01</b>   |
|              | <b>On completion of the course, students would be able to</b>                            |
| CO-1         | Understand the basics of management functions  |
| CO-2         | Have greater insight into planning and decision making processes.                        |
| CO-3         | Understand bases of departmentation, groups and coordinate                               |
| CO-4         | Lead and motivate people in organization.  |
| CO-5         | Know the fundamentals of control process and techniques for organisational effectiveness |

| Course Title | Core<br>ACCOUNTING FOR MANAGERS  |
|--------------|--|
| <b>Code</b>  | <b>18ISU02</b>   |
|              | <b>On completion of the course, students would be able to</b>  |
| CO-1         | Gain knowledge on the basics accounting procedures   |
| CO-2         | Adopt subsidiary books for the proper implementation of business transactions.                         |
| CO-3         | Assess the profit/loss account of the company and to frame financial strategies according to it.       |
| CO-4         | Adopt appropriate method of depreciation in companies  |
| CO-5         | Have in-depth knowledge on exchange of bills and preparation of accounts of non- trading organization. |

| Course Title | Core<br>BUSINESS MATHEMATICS AND STATISTICS                             |
|--------------|---|
| <b>Code</b>  | <b>18ISU03</b>  |
|              | <b>On completion of the course, students would be able to</b>           |
| CO-1         | Apply the various mathematical techniques related to business concepts. |
| CO-2         | Identify the business and economic data graphically and numerically and |

|      |   |
|------|---|
|      | explain relationship between graphs and numerical data.   |
| CO-3 | Organize and summarize data by using descriptive Statistics and appropriate Statistical graphs.   |
| CO-4 | Predict relevant relationship between business variables using Correlation and regression analysis.   |
| CO-5 | Demonstrate knowledge and understanding of index number theory and methods and be able to provide practical solution to general aggregation problems. |
| CO-6 | Solve problems related to computational tool using MS Excel.  |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>ORGANISATIONAL BEHAVIOUR</b>   |
| <b>Code</b>         | <b>18ISU04</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Understand the fundamentals of Organisational Behaviour  |
| CO-2                | Know individual differences and individual behaviour   |
| CO-3                | Demonstrate an understanding of group dynamics, its practical implications and conflicts that arise in real life situations in organizations |
| CO-4                | Be able to explain the concepts of leadership, communication, organisational culture, organisational change and stress                       |
| CO-5                | Have an holistic knowledge about the relevance of individual and group behaviour in work environment   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>COMPUTER APPLICATIONS IN MANAGEMENT</b>   |
| <b>Code</b>         | <b>18ISU05</b>  |
|                     | <b>On completion of the course, students would be able to</b>                                       |
| CO-1                | Have clear knowledge in the fundamentals of MS Word.  |
| CO-2                | Acquire the knowledge of creating own presentations by including audio and videos in MS Power Point |
| CO-3                | Have better insight about basic functions available in MS Excel.                                    |
| CO-4                | Do simple automated tasks using Excel Macros.   |
| CO-5                | Gain knowledge about Ms Access database.  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>LAB - COMPUTER APPLICATIONS IN MANAGEMENT</b>   |
| <b>Code</b>         | <b>18ISU06</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Use formatting techniques and presentation styles using MS Word.  |
| CO-2                | Do a mail merge using MS Word.  |
| CO-3                | Acquire the knowledge in the use of basic functions and formulas using MS Excel.                          |
| CO-4                | Have a working knowledge of using clip art to enhance ideas and information in a PowerPoint presentation. |
| CO-5                | Do arithmetic calculations using MS Access  |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Interdisciplinary Course<br/>COST ACCOUNTING</b>  |
| <b>Code</b>         | <b>18ISU07</b>   |
|                     | <b>On completion of the course, students would be able to</b>                                      |
| CO-1                | Have a thorough knowledge on the principles of cost accounting                                     |
| CO-2                | Prepare a cost statement and quotation for any product.  |
| CO-3                | Organize the inventories, scheming labours payroll and control over overhead.                      |
| CO-4                | Gain an insight on the various costing practices of the industries.                                |
| CO-5                | Comprehend the impact of variable cost of a product on the volume of production and profit margin. |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>PRODUCTION AND OPERATIONS MANAGEMENT</b>                          |
| <b>Code</b>         | <b>18ISU08</b>  |
|                     | <b>On completion of the course, students would be able to</b>                 |
| CO-1                | Well versed with the basic knowledge on production and operations management  |
| CO-2                | Conceptually and analytically aware of process description, capacity analysis |

|      |  |
|------|--|
|      | and decision making  |
| CO-3 | Understand the planning and control, maintenance and material handling processes |
| CO-4 | Learn the aspects of materials management  |
| CO-5 | Be aware of the significant developments in the Quality Management System        |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>HUMAN RESOURCE MANAGEMENT</b>  |
| <b>Code</b>         | <b>18ISU09</b>   |
|                     | <b>On completion of the course, students would be able to</b>                        |
| CO-1                | Ability to understand functions of HRM   |
| CO-2                | Acquire foundational knowledge on designing a job                                    |
| CO-3                | Formulate training polices and facilitate career development                         |
| CO-4                | Understand basic concepts relevant to performance management                         |
| CO-5                | Design compensation package and demonstrate knowledge on recent trends in management |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>MARKETING MANAGEMENT</b>                          |
| <b>Code</b>         | <b>18ISU10</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Manage competition in marketing                               |
| CO-2                | Bring critical thinking in market segmentation                |
| CO-3                | Manage product in different phases in its product life cycle  |
| CO-4                | Provide solutions for marketing promotion                     |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>VISUAL PROGRAMMING</b>                                 |
| <b>Code</b>         | <b>18ISU11</b>   |
|                     | <b>On completion of the course, students would be able to</b>      |
| CO-1                | Design, create, build and debug a simple visual basic application. |

|      |  |
|------|--|
| CO-2 | Include with basic Visual IDE.   |
| CO-3 | Do programming using variables and data types in program development   |
| CO-4 | Do programs using the looping and decision structures in VB.           |
| CO-5 | Have the knowledge in connection back-end Ms Access using ADO and DAO. |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>LAB – VISUAL PROGRAMMING</b>   |
| <b>Code</b>         | <b>18ISU12</b>   |
|                     | <b>On completion of the course, students would be able to</b>                            |
| CO-1                | Have practical experience to design, create and build a simple visual basic application. |
| CO-2                | Have practical experience to develop simple programs IDE.                                |
| CO-3                | Do programs using the concept of variables and data types in VB.                         |
| CO-4                | Do programs using the concept of the looping and decision structures in VB.              |
| CO-5                | Connect back-end Ms Access with VB using ADO and DAO                                     |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>RESEARCH METHODS FOR MANAGEMENT</b>                     |
| <b>Code</b>         | <b>18ISU15</b>  |
|                     | <b>On completion of the course, students would be able to</b>       |
| CO-1                | Understand the fundamentals of research                             |
| CO-2                | Identify a research problem and formulate hypothesis                |
| CO-3                | Design their research and develop tool for data collection          |
| CO-4                | The process of data collection and able to handle data analytically |
| CO-5                | Write a research report and be aware of applications                |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>ENTREPRENEURSHIP DEVELOPMENT</b>                  |
| <b>Code</b>         | <b>18ISU16</b>  |
|                     | <b>On completion of the course, students would be able to</b> |

|      |  |
|------|--|
| CO-1 | Build knowledge on the basic concept of Entrepreneurship.                            |
| CO-2 | Become familiar with EDP and institutions supporting the entrepreneurs.              |
| CO-3 | Enrich their understanding on various forms of business organizations and EDP.       |
| CO-4 | Gain insight in developing an lean business model.                                   |
| CO-5 | Support in-depth learning in project management and preparation of a project report. |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>BUSINESS ETHICS AND CORPORATE GOVERNANCE</b>                                       |
| <b>Code</b>         | <b>18ISU17</b>   |
|                     | <b>On completion of the course, students would be able to</b>                                  |
| CO-1                | Understand business ethics and its importance  |
| CO-2                | Apply theories of ethics in resolving controversial issues in business                         |
| CO-3                | Know the impact of ethics on business  |
| CO-4                | Understand emerging challenges in business, corporate governance concept, mechanism and models |
| CO-5                | Understand Corporate Social Responsibility   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>RELATIONAL DATABASE MANAGEMENT SYSTEMS</b>                            |
| <b>Code</b>         | <b>18ISU18</b>  |
|                     | <b>On completion of the course, students would be able to</b>                     |
| CO-1                | Understand the basic concepts of database management system and Oracle.           |
| CO-2                | Be incorporated with the knowledge on the queries and SQL functions.              |
| CO-3                | Gain the knowledge on the constraints and database objects.                       |
| CO-4                | Acquire the knowledge on the Object oriented programming concepts.                |
| CO-5                | Be imparted with the knowledge on packages, functions, triggers and sub programs. |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>LAB – RELATIONAL DATABASE MANAGEMENT SYSTEMS</b> |
|---------------------|--|

|             |   |
|-------------|---|
| <b>Code</b> | <b>18ISU19</b>  |
|             | <b>On completion of the course, students would be able to</b>   |
| CO-1        | Have a practical knowledge on creation of tables and solving simple queries.                                      |
| CO-2        | Perform comparative analysis using Relational operations and performing simple queries using the range operators. |
| CO-3        | Have a practical experience on solving simple queries with the column level and table level constraints.          |
| CO-4        | Learn practically for solving the procedural language extension to structured query language.                     |
| CO-5        | Acquire the knowledge in writing the functions and triggers.  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Interdisciplinary Course (IDC)<br/>FINANCIAL MANAGEMENT</b>                                  |
| <b>Code</b>         | <b>18ISU20</b>  |
|                     | <b>On completion of the course, students would be able to</b>                                   |
| CO-1                | Know the importance of managing finance of a company.   |
| CO-2                | Understand and analyse the financial performance of a company.                                  |
| CO-3                | Prepare a capital budget and analyse the cost of capital of a company                           |
| CO-4                | Evaluate and take good decisions for an optimum capital structure of a company.                 |
| CO-5                | Gain an insight on the drafting a dividend policy of a company.                                 |
| CO-6                | Comprehend the impact and importance of working capital management on performance of a company. |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>PRACTICAL CORPORATE ETIQUETTE</b>                                    |
| <b>Code</b>         | <b>18ISU21</b>   |
|                     | <b>On completion of the course, students would be able to</b>                    |
| CO-1                | Build knowledge in the basic concept of etiquette, hard skills and soft skills.  |
| CO-2                | Be familiar with business conversation and grooming skills.                      |
| CO-3                | Enrich their understanding of an effective business meeting and cubicle manners. |

|      |   |
|------|---|
| CO-4 | Gain insight to develop good networking skills and enhancing business entertaining skills |
| CO-5 | Support in preparing a resume and learn interviewing skills.                              |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>TAXATION</b>   |
| <b>Code</b>         | <b>18ISU22</b>   |
|                     | <b>On completion of the course, students would be able to</b>      |
| CO-1                | Construct, assess and evaluate the taxation.                       |
| CO-2                | Assess the taxable salary and total income.                        |
| CO-3                | Assess the computation of house property and business income       |
| CO-4                | Have in depth knowledge on capital gains and other sources income. |
| CO-5                | Learn the computation of tax liability                             |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>CLOUD COMPUTING</b>   |
| <b>Code</b>         | <b>18ISU23</b>  |
|                     | <b>On completion of the course, students would be able to</b>               |
| CO-1                | Have a clear idea on the basics of Cloud computing.                         |
| CO-2                | Gain knowledge on cloud deployment models.                                  |
| CO-3                | Learn the skills on the cloud platforms.                                    |
| CO-4                | Gain knowledge on the principles of Cloud virtualization and cloud storage. |
| CO-5                | Have a clear idea on the cloud data management and data visualization       |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>E-BUSINESS</b>  |
| <b>Code</b>         | <b>18ISU24</b>  |
|                     | <b>On completion of the course, students would be able to</b>         |
| CO-1                | Apply the principles of E-business to manage competition              |
| CO-2                | Implement the technological infrastructure in e-Business              |
| CO-3                | Retain best suitable e-Business strategies for Small Scale industries |
| CO-4                | Eliminate the risks and barriers in the adoption of E-Business        |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>DATA MINING AND BUSINESS INTELLIGENCE</b>                            |
| <b>Code</b>         | <b>18ISU25</b>   |
|                     | <b>On completion of the course, students would be able to</b>                    |
| CO-1                | Have a clear knowledge on the basics of Data mining.                             |
| CO-2                | Be imparted with the information on Data processing and Data mining primitives.  |
| CO-3                | Have a clear idea on the mining association rules in large databases.            |
| CO-4                | Understand the basics of Business Intelligence.                                  |
| CO-5                | Be transmitted with the information on the business intelligence implementation. |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>LAB - DATA MINING</b>  |
| <b>Code</b>         | <b>18ISU26</b>   |
|                     | <b>On completion of the course, students would be able to</b>                            |
| CO-1                | Use basic preprocessing functions in WEKA.   |
| CO-2                | Do implementation of association rules in business.                                      |
| CO-3                | Acquire the knowledge in the use of basic functions available in Data Mining using WEKA. |
| CO-4                | Have a working knowledge of implementing clustering concepts in WEKA.                    |
| CO-5                | Do the basic Decision tree concepts using WEKA.  |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Discipline Specific Elective– I<br/>DIGITAL MARKETING</b>                               |
| <b>Code</b>         | <b>21ISU28A</b>  |
|                     | <b>On completion of the course, students would be able to</b>                              |
| CO-1                | differentiate between Traditional and Digital Marketing.                                   |
| CO-2                | develop insight on current trends in digital marketing                                     |
| CO-3                | understood various strategies involved in marketing products and services digitally        |
| CO-4                | gain the knowledge on the basics of search engine Optimization(SEO) and Mobile marketing   |
| CO-5                | apply their knowledge on digital marketing platforms like facebook, Twitter, Instagram etc |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Discipline Specific Elective– I<br/>BASICS OF BUSINESS ANALYTICS</b> |
| <b>Code</b>         | <b>21ISU28B</b>   |
|                     | <b>On completion of the course, students would be able to</b>           |
| CO-1                | well versed with the basic knowledge on different types of digital data |
| CO-2                | conceptually aware of Business Intelligence                             |
| CO-3                | understand the concepts and techniques of Analytics Methodology         |
| CO-4                | learn the basics of Data Integration                                    |
| CO-5                | be aware of Enterprise Reporting  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>STRATEGIC MANAGEMENT</b>  |
| <b>Code</b>         | <b>18ISU29</b>  |
|                     | <b>On completion of the course, students would be able to</b>                                   |
| CO-1                | Acquire knowledge on the basic concept of strategic management.                                 |
| CO-2                | Be familiar with components of the business environment and can understand strategic analysis.  |
| CO-3                | Enrich their understanding on strategic planning and formulation.                               |
| CO-4                | Gain insight of how to implement a strategy and do strategic evaluation and control.            |
| CO-5                | Have in-depth knowledge on global strategic management practices and strategic issues in future |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>EXPORT MARKETING</b>  |
| <b>Code</b>         | <b>18ISU30</b>  |
|                     | <b>On completion of the course, students would be able to</b>               |
| CO-1                | Gain knowledge on basics of exporting.                                      |
| CO-2                | Understand the export assistance available for exporters                    |
| CO-3                | Have insight on export procedures   |
| CO-4                | Understand the export financing procedure, export and import documentation. |
| CO-5                | Knowledge on foreign exchange regulations                                   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>ENTERPRISE RESOURCE PLANNING</b>                            |
| <b>Code</b>         | <b>18ISU31</b>  |
|                     | <b>On completion of the course, students would be able to</b>           |
| CO-1                | Gain the concept enterprise Resource Planning                           |
| CO-2                | Understand the ERP designing process                                    |
| CO-3                | Know the ERP functionality in an organisation                           |
| CO-4                | Have a clear understanding on ERP project management and implementation |
| CO-5                | Understand application of ERP system in different industries            |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>WEB TECHNOLOGY</b>  |
| <b>Code</b>         | <b>18ISU32</b>  |
|                     | <b>On completion of the course, students would be able to</b>           |
| CO-1                | Have a clear knowledge on the basic structure and tags of HTML.         |
| CO-2                | Acquire knowledge on list, tables, HTML forms and its controls.         |
| CO-3                | Have a clear idea on the fundamentals of DHTML.                         |
| CO-4                | Have a thorough examination on the building blocks of JavaScript.       |
| CO-5                | Acquire knowledge on the date object and handling events in JavaScript. |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>LAB- WEB TECHNOLOGY</b>  |
| <b>Code</b>         | <b>18ISU33</b>   |
|                     | <b>On completion of the course, students would be able to</b>                    |
| CO-1                | Have a practical experience on the usage of HTML tags and lists                  |
| CO-2                | Acquire the knowledge practically on the frames and tables.                      |
| CO-3                | Have a practical knowledge on the forms using HTML.                              |
| CO-4                | Have a skill to debug the basic JavaScript errors.                               |
| CO-5                | Have a practical experience to apply basic programming structures of JavaScript. |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Discipline Specific Elective Course-II<br/>CORPORATE COMMUNICATION</b> |
| <b>Code</b>         | <b>21ISU34A</b>   |
|                     | <b>On completion of the course, students would be able to</b>             |
| CO-1                | Remember the basics of Corporate Communication                            |
| CO-2                | Gain an insight into Corporate Social Responsibility.                     |
| CO-3                | Understand the ways to build corporate identity.                          |
| CO-4                | Gather expertise on tools of Corporate Communication.                     |
| CO-5                | Build knowledge on Corporate Communication Research Techniques            |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Discipline Specific Elective Course –II<br/>DESIGN THINKING FOR BUSINESS</b>      |
| <b>Code</b>         | <b>21ISU34B</b>  |
|                     | <b>On completion of the course, students would be able to</b>                        |
| CO-1                | analyse business scenarios with creative confidence                                  |
| CO-2                | solve problems in human-centric ways and find innovative solutions                   |
| CO-3                | apply core design thinking principles for developing or modifying products, services |
| CO-4                | practice design thinking concepts in business processes and corporate culture        |
| CO-5                | adopt a structured approach for solving business challenges                          |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Generic Elective Course<br/>PEOPLE MANAGEMENT</b>                                   |
| <b>Code</b>         | <b>21GECISU</b>  |
|                     | <b>On completion of the course, students would be able to</b>                          |
| CO-1                | build a personal development plan for oneself.   |
| CO-2                | able to prioritize and assign work to team members                                     |
| CO-3                | understanding on impact of individual and organizational factors on people management. |



Since 1947

# PSG College of Arts & Science Coimbatore – 641 014

## Programme: BBA Retail Management

### Programme Outcomes

|      | <b>On completion of the programme, the student will be able to</b>  |
|------|---|
| PO-1 | Become knowledgeable in the subject of Business Administration and apply the principles of the same to the needs of the Employer / own Business or Enterprise                   |
| PO-2 | Gain analytical skills in the field of Retail Management  |
| PO-3 | Understand and appreciate professional ethics, community living and Nation-building initiatives   |
| PO-4 | Identify, formulate and analyze business management problems, reaching substantiated conclusions using principles of business management, retail management and social sciences |
| PO-5 | Create, select and apply appropriate methods, techniques and resources for successful retail business operations  |
| PO-6 | Communicate effectively with the business community and society   |
| PO-7 | Understand the need for rational decision making  |
| PO-8 | Develop desire for professional development and life-long learning  |

### Programme Specific Outcomes

|       | <b>On completion of the programme, the student will be able</b>  |
|-------|--|
| PSO-1 | Apply the knowledge of social science theories and concepts in the domain of Business Administration                                   |
| PSO-2 | Solve the complex problems in the field of business with an understanding of the societal, legal and cultural impacts of the solutions |
| PSO-3 | Become effective and efficient entrepreneurs and managers in the retail-scape  |
| PSO-4 | Form part of a team as a member with right attitudes   |

### Course Outcomes

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>MANAGEMENT PRINCIPLES AND PRACTICES</b>                                      |
| <b>Code</b>         | <b>18RMU 01</b>  |
|                     | <b>On completion of the course, students would be able to</b>                            |
| CO-1                | Understand the basics of management functions  |
| CO-2                | Have greater insight into planning and decision making processes.                        |
| CO-3                | Understand bases of departmentation, groups and coordinate                               |
| CO-4                | Lead and motivate people in organization.  |
| CO-5                | Know the fundamentals of control process and techniques for organizational effectiveness |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>ACCOUNTING FOR MANAGERS</b>  |
| <b>Code</b>         | <b>18RMU02</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Gain knowledge on the basics accounting procedures   |
| CO-2                | Adopt subsidiary books for the proper implementation of business transactions.                         |
| CO-3                | Assess the profit/loss account of the company and to frame financial strategies according to it.       |
| CO-4                | Adopt appropriate method of depreciation in companies  |
| CO-5                | Have in-depth knowledge on exchange of bills and preparation of accounts of non- trading organization. |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Interdisciplinary Course<br/>BUSINESS MATHEMATICS AND STATISTICS</b> |
| <b>Code</b>         | <b>18RMU03</b>  |
|                     | <b>On completion of the course, students would be able to</b>           |

|      |   |
|------|---|
| CO-1 | Apply the various mathematical techniques related to business concepts.   |
| CO-2 | Identify the business and economic data graphically and numerically and explain relationship between graphs and numerical data.                       |
| CO-3 | Organize and summarize data by using descriptive Statistics and appropriate Statistical graphs.   |
| CO-4 | Predict relevant relationship between business variables using Correlation and regression analysis.   |
| CO-5 | Demonstrate knowledge and understanding of index number theory and methods and be able to provide practical solution to general aggregation problems. |
| CO-6 | Solve problems related to computational tool using MS Excel.  |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>ORGANISATIONAL BEHAVIOUR</b>   |
| <b>Code</b>         | <b>18RMU04</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Understand the fundamentals of Organizational Behaviour  |
| CO-2                | Know individual differences and individual behaviour   |
| CO-3                | Demonstrate an understanding of group dynamics, its practical implications and conflicts that arise in real life situations in organizations |
| CO-4                | Be able to explain the concepts of leadership, communication, organizational culture, organizational change and stress                       |
| CO-5                | Have an holistic knowledge about the relevance of individual and groupbehaviour in work environment  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>INTRODUCTION TO RETAILING</b>                               |
| <b>Code</b>         | <b>18RMU05</b>  |
|                     | <b>On completion of the course, students would be able to</b>           |
| CO-1                | Gain knowledge of retailing concepts and challenges in current scenario |
| CO-2                | Acquire the knowledge on available retail formats                       |
| CO-3                | Apply retail strategies to have competitive advantage                   |
| CO-4                | Know the shopping behaviour pattern for different segments              |

|      |   |
|------|---|
| CO-5 | Have clear understanding of effective mall management operation |
|------|---|

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>COST ACCOUNTING</b>  |
| <b>Code</b>         | <b>18BRM06</b>   |
|                     | <b>On completion of the course, students would be able to</b>                                      |
| CO-1                | Have a thorough knowledge on the principles of cost accounting                                     |
| CO-2                | Prepare a cost statement and quotation for any product.  |
| CO-3                | Organize the inventories, scheming labours payroll and control over overhead.                      |
| CO-4                | Gain an insight on the various costing practices of the industries.                                |
| CO-5                | Comprehend the impact of variable cost of a product on the volume of production and profit margin. |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>RETAIL STORES MANAGEMENT</b>                      |
| <b>Code</b>         | <b>18RMU07</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Gain knowledge on shopping centers.                           |
| CO-2                | Understand the importance of store layout                     |
| CO-3                | Have insight on indulgence visual appeal inside a store       |
| CO-4                | Understand the store operation and prevention of retail theft |
| CO-5                | Knowledge on warehouse management                             |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>MARKETING MANAGEMENT</b>                          |
| <b>Code</b>         | <b>18RMU08</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Manage competition in marketing                               |
| CO-2                | Bring critical thinking in market segmentation                |
| CO-3                | Manage product in different phases in its product life cycle  |
| CO-4                | Provide solutions for marketing promotion                     |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>HUMAN RESOURCE MANAGEMENT</b>  |
| <b>Code</b>         | <b>18RMU09</b>   |
|                     | <b>On completion of the course, students would be able to</b>                        |
| CO-1                | Ability to understand functions of HRM   |
| CO-2                | Acquire foundational knowledge on designing a job                                    |
| CO-3                | Formulate training polices and facilitate career development                         |
| CO-4                | Understand basic concepts relevant to performance management                         |
| CO-5                | Design compensation package and demonstrate knowledge on recent trends in management |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>LEGAL ASPECTS OF RETAILING</b>  |
| <b>Code</b>         | <b>18RMU10</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Understand with conceptual and operational parameters of various general principles relating to contract law. |
| CO-2                | Apply various provisions of contract dealing with the sale of movable goods.                                  |
| CO-3                | Know the applications of various types of negotiable instruments in the business                              |
| CO-4                | Get acquainted with the legal procedure of IT act in the field of e-commerce and online business activities   |
| CO-5                | Have an understanding of various consumer protection acts for the safeguard of consumers                      |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>LAB- OFFICE AUTOMATION SYSTEM</b>                                     |
| <b>Code</b>         | <b>18RMU11</b>  |
|                     | <b>On completion of the course, students would be able to</b>                     |
| CO-1                | Have an introductory formatting techniques and presentation styles using MS Word. |

|      |   |
|------|---|
| CO-2 | Have a working knowledge of producing a mail merge using MS Word.   |
| CO-3 | Acquire the knowledge in the use of basic functions and formulas using MS Excel.                          |
| CO-4 | Have a working knowledge of using clip art to enhance ideas and information in a PowerPoint presentation. |
| CO-5 | Do simple arithmetic calculations using MS Access.  |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Interdisciplinary Course<br/>APPLIED OPERATIONS RESEARCH</b>                                  |
| <b>Code</b>         | <b>18RMU12</b>   |
|                     | <b>On completion of the course, students would be able to</b>                                    |
| CO-1                | Formulate OR models to solve real life problems by using graphical and simplex methods.          |
| CO-2                | Analyze the advanced methods for large scale transportation and assignment problems              |
| CO-3                | Evaluate sequencing problems of scheduling jobs on two and three machines.                       |
| CO-4                | Apply various methods to select optimum strategies to win the game.                              |
| CO-5                | Apply various Queuing models to eliminate customers/clients waiting period for service delivery. |
| CO-6                | Undertake a project, identify bottlenecks and discover alternate work plan for a project.        |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>RESEARCH METHODS FOR MANAGEMENT</b>                                 |
| <b>Code</b>         | <b>18RMU14</b>  |
|                     | <b>On completion of the course, students would be able to</b>                   |
| CO-1                | Understand the fundamentals of research   |
| CO-2                | Identify a research problem and formulate hypothesis                            |
| CO-3                | Know to design their research and develop tool for data collection              |
| CO-4                | Understand the process of data collection and able to handle data analytically. |
| CO-5                | Write a research report and be aware of applications                            |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>ENTREPRENEURSHIP DEVELOPMENT</b>   |
| <b>Code</b>         | <b>18RMU15</b>   |
|                     | <b>On completion of the course, students would be able to</b>                        |
| CO-1                | Build knowledge on the basic concept of Entrepreneurship                             |
| CO-2                | Become familiar with EDP and institutions supporting the entrepreneurs.              |
| CO-3                | Enrich their understanding on various forms of business organizations and EDP.       |
| CO-4                | Gain insight in developing an lean business model.                                   |
| CO-5                | Support in-depth learning in project management and preparation of a project report. |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>BUSINESS ETHICS &amp; CORPORATE GOVERNANCE</b>                                     |
| <b>Code</b>         | <b>18RMU16</b>   |
|                     | <b>On completion of the course, students would be able to</b>                                  |
| CO-1                | Understand business ethics and its importance  |
| CO-2                | Be able to apply theories of ethics in resolving controversial issues in business              |
| CO-3                | Know the impact of ethics on business  |
| CO-4                | Understand emerging challenges in business, corporate governance concept, mechanism and models |
| CO-5                | Understand Corporate Social Responsibility   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>BUYER BEHAVIOUR</b>   |
| <b>Code</b>         | <b>18RMU17</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Understand the bases of consumer behavior.  |
| CO-2                | Have greater insights into the consumer analysis  |
| CO-3                | Helps them to understand the customers who are belonging to multicultural background and to implement the right strategy. |
| CO-4                | Helps them to make decisions based on designing product, pricing and promotion based on the target market                 |
| CO-5                | Understand the store and non- store related behavior.   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>FINANCIAL MANAGEMENT</b>  |
| <b>Code</b>         | <b>18RMU18</b>  |
|                     | <b>On completion of the course, students would be able to</b>                                   |
| CO-1                | Know the importance of managing finance of a company.   |
| CO-2                | Prepare a capital budget and analyze the cost of capital of a company                           |
| CO-3                | Evaluate and take a good decisions for an optimum capital structure of a company                |
| CO-4                | Gain an insight on the drafting a dividend policy of a company.                                 |
| CO-5                | Comprehend the impact and importance of working capital management on performance of a company. |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>PRACTICAL CORPORATE ETIQUETTE</b>  |
| <b>Code</b>         | <b>18RMU19</b>   |
|                     | <b>On completion of the course, students would be able to</b>                              |
| CO-1                | Build knowledge in the basic concept of etiquette, hard skills and soft skills.            |
| CO-2                | Be familiar with business conversation and grooming skills.                                |
| CO-3                | Enrich their understanding of an effective business meeting and cubicle manners.           |
| CO-4                | Gain insight to develop good networking skills and enhancing business entertaining skills. |
| CO-5                | Support in preparing a resume and learn interviewing skills.                               |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>TAXATION</b>   |
| <b>Code</b>         | <b>18RMU20</b>   |
|                     | <b>On completion of the course, students would be able to</b>      |
| CO-1                | Construct, assess and evaluate the taxation.                       |
| CO-2                | Assess the taxable salary and total income.                        |
| CO-3                | Assess the computation of house property and business income.      |
| CO-4                | Have in depth knowledge on capital gains and other sources income. |
| CO-5                | Learn the computation of tax liability.                            |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>EVENT MANAGEMENT</b>                              |
| <b>Code</b>         | <b>18RMU21</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Gain the concept of event.                                    |
| CO-2                | Understand the concept of event management.                   |
| CO-3                | Know the event budget and event budgeting.                    |
| CO-4                | Have a clear understanding on event promotion.                |
| CO-5                | Understand the basis of corporate event management.           |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>E-BUSINESS</b>   |
| <b>Code</b>         | <b>18RMU22</b>   |
|                     | <b>On completion of the course, students would be able to</b>              |
| CO-1                | Apply the principles of E-business to manage competition.                  |
| CO-2                | Implement the technological infrastructure in e-business.                  |
| CO-3                | Retain the best suitable e-business strategies for Small Scale industries. |
| CO-4                | Eliminate the risks and barriers in the adoption of E-business.            |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>CUSTOMER RELATIONSHIP MANAGEMENT</b>               |
| <b>Code</b>         | <b>18RMU23</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Understand the basics of Customer Relationship Management.     |
| CO-2                | Gain an insight into the types of CRM.                         |
| CO-3                | Gather expertise on implementation of CRM.                     |
| CO-4                | Understand the Significance of E-CRM and apply it practically. |
| CO-5                | Have knowledge about Ethical considerations and Future of CRM. |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Discipline Specific Elective Course - I<br/>MALL MANAGEMENT</b>                                       |
| <b>Code</b>         | <b>18RMU25A</b>  |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | gain knowledge on the concept of malls and various types of retail formats.                              |
| CO-2                | understand mall design and functional process in malls.  |
| CO-3                | have a clear understanding on mall operations and establish good owner- tenant relationship.             |
| CO-4                | learn nuances of mall architecture and create a good relationship with customers.                        |
| CO-5                | understand new trends and practices in mall management and cope up in the competitive business scenario. |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Discipline Specific Elective Course - I<br/>STARTUP ENTERPRISE MANAGEMENT</b>       |
| <b>Code</b>         | <b>21RMU25B</b>  |
|                     | <b>On completion of the course, students would be able to</b>                          |
| CO-1                | Gain an overview of the basics related to startup enterprise.                          |
| CO-2                | Acquire insights on idea generation and development strategies for a startup business. |
| CO-3                | Understand the process involved in setting up a lean startup enterprise.               |
| CO-4                | Enhance knowledge on legal compliances and IP issues in startups.                      |
| CO-5                | Develop sound base on pre incubation and incubation support for startups.              |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>STRATEGIC MANAGEMENT</b>   |
| <b>Code</b>         | <b>18RMU26</b>   |
|                     | <b>On completion of the course, students would be able to</b>                                    |
| CO-1                | Acquire knowledge on the basic concept of strategic management.                                  |
| CO-2                | Be familiar with components of the business environment and can understand strategic analysis.   |
| CO-3                | Enrich their understanding on strategic planning and formulation.                                |
| CO-4                | Gain insight of how to implement a strategy and do strategic evaluation and control.             |
| CO-5                | Have in-depth knowledge on global strategic management practices and strategic issues in future. |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>EXPORT MARKETING</b>  |
| <b>Code</b>         | <b>18RMU27</b>  |
|                     | <b>On completion of the course, students would be able to</b>               |
| CO-1                | Gain knowledge on basics of exporting.                                      |
| CO-2                | understand the export assistance available for exporters                    |
| CO-3                | Have insight on export procedures.  |
| CO-4                | Understand the export financing procedure, export and import documentation. |
| CO-5                | Knowledge on foreign exchange regulations.                                  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>SUPPLY CHAIN MANAGEMENT</b>                       |
| <b>Code</b>         | <b>18RMU28</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Adopt best distribution design for business.                  |
| CO-2                | Implement best business model for logistics                   |
| CO-3                | Manage risk in various operations in SCM                      |
| CO-4                | Use best integrated IT solution for the business.             |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>BRAND MANAGEMENT</b>  |
| <b>Code</b>         | <b>18RMU29</b>  |
|                     | <b>On completion of the course, students would be able to</b>                     |
| CO-1                | Gain the concept of brand.  |
| CO-2                | Understand the building brand equity.   |
| CO-3                | Know the consumer decision making and brand selection.                            |
| CO-4                | Have a clear understanding on umbrella branding and choosing a branding strategy. |
| CO-5                | Understand the basis of managing brand image.                                     |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Discipline Specific Elective Course - II<br/>DIGITAL RETAILING</b> |
| <b>Code</b>         | <b>21RMU30A</b>   |
|                     | <b>On completion of the course, students would be able to</b>         |
| CO-1                | Understand the basics concept of e-retailing.                         |
| CO-2                | Gain a knowledge in digital marketing and business of e-retailing     |
| CO-3                | Understand the online consumers behaviour.                            |
| CO-4                | Understand the Significance of E-services and E-brands                |
| CO-5                | Have a knowledge about new concepts in E-retailing and trends         |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Discipline Specific Elective Course - II<br/>INTERNATIONAL RETAILING</b> |
| <b>Code</b>         | <b>21RMU30B</b>   |
|                     | <b>On completion of the course, students would be able to</b>               |
| CO-1                | Understand the international retailing and global customer buying behavior. |
| CO-2                | Know the international retailing strategy                                   |
| CO-3                | Know the international retail marketing and environment                     |
| CO-4                | Have knowledge about evaluation of global retailing practices.              |
| CO-5                | Develop fair knowledge on future of international retailing                 |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Generic Elective Course<br/>IT APPLICATIONS IN RETAIL INDUSTRY</b> |
| <b>Code</b>         | <b>21GECRMU</b>   |
|                     | <b>On completion of the course, students would be able to</b>         |
| CO-1                | Gain knowledge on retail business system                              |
| CO-2                | Understand the architecture of retail information system              |
| CO-3                | Enrich their understanding on technological aspects of retailing.     |
| CO-4                | Understand the basics of retail functional applications.              |
| CO-5                | Have knowledge about emerging trends in retail industry               |



Since 1947

# PSG College of Arts & Science Coimbatore – 641 014

## Programme: BBA Logistics

### Programme Outcomes

|      | <b>On completion of the programme, the student will be able to</b>  |
|------|---|
| PO-1 | Understand and apply knowledge gained on global logistics management  |
| PO-2 | Develop the ability to communicate effectively in marketing language  |
| PO-3 | Analyze and address logistic problems   |
| PO-4 | Acquire leadership skills in core areas including supervising, purchasing, inventory control, supply chain, production and retail aspects of the business |
| PO-5 | succeed at various levels of logistics career   |

### Programme Specific Outcomes

|       | <b>On completion of the programme, the student will be able</b>   |
|-------|---|
| PSO-1 | To make learners to become expertise in different verticals in logistics business   |
| PSO-2 | To provide skilled work force in logistics industry by providing innovative education in the segment  |
| PSO-3 | Partnering with Industry/Institutions globally and locally in area of Training and development, that grooms students to practice ethics in the work place |
| PSO-4 | Ability to analyse, simulate and discuss situations to explore problems in the field of Logistics and appraise their intricacy                            |

### Course Outcomes

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>FUNDAMENTALS OF LOGISTICS</b>                         |
| <b>Code</b>         | <b>19BLU01/L19C03</b>   |
|                     | <b>On completion of the course, students would be able to</b>     |
| CO-1                | Apply the Basic knowledge of Logistics in the real-life situation |
| CO-2                | Enhance their ability and professional skills in Logistics        |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>PRINCIPLES OF MANAGEMENT</b>                                 |
| <b>Code</b>         | <b>19BLU02/L19C04</b>  |
|                     | <b>On completion of the course, students would be able to</b>            |
| CO-1                | Apply the knowledge about management in the real-life business situation |
| CO-2                | Enhance their managerial ability and professional skills                 |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>MATERIALS MANAGEMENT</b>                                     |
| <b>Code</b>         | <b>19BLU03/L19C06</b>  |
|                     | <b>On completion of the course, students would be able to</b>            |
| CO-1                | Apply the knowledge about management in the real-life business situation |
| CO-2                | Enhance their managerial ability and professional skills                 |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>WAREHOUSING &amp; DISTRIBUTION CENTRE OPERATIONS</b>                                       |
| <b>Code</b>         | <b>19BLU04/L19C07</b>  |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Apply the Basic knowledge of Warehousing and distribution centre operations in the real-life situation |
| CO-2                | Enhance their managerial ability and professional skills   |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Interdisciplinary Course<br/>BUSINESS STATISTICS</b>  |
| <b>Code</b>         | <b>19BLU05/L19C05</b>  |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Gain conceptual and working knowledge of Business Statistics and use it in the applications of business. |
| CO-2                | Learn the methods of solving problems on basic concepts and analytical business statistical model.       |
| CO-3                | Use introductory level of Transportation and queuing theory.   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>WAREHOUSE AUTOMATION</b>  |
| <b>Code</b>         | <b>19BLU08A/ L19A01A</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Recognize the Knowledge of the common and latest automation solutions for ware-housing  |
| CO-2                | Understand and Recognize the costs and pre-requisites for each automation solution and the expected benefits of the different solutions |
| CO-3                | Complete the analysis and to select the most appropriate solution for ware-house automation   |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>BEST PRACTICES FOR TRANSPORTATION</b>  |
| <b>Code</b>         | <b>19BLU08B/L19A01B</b>  |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Assess transportation operations towards increased logistics efficiency while discovering opportunities for saving time, expense and hassle. |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>APPRENTICESHIP 1</b>   |
| <b>Code</b>         | <b>19BLU09/L19C10</b>  |
|                     | <b>On completion of the course, students would be able to</b>                                |
| CO-1                | to perform the activities of Warehousing and distribution centres in the real-life situation |
| CO-2                | to enhance their ability and professional skills in Logistics                                |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>BUSINESS COMMUNICATION</b>                                  |
| <b>Code</b>         | <b>20BLU10/ L20C12</b>  |
|                     | <b>On completion of the course, students would be able to</b>           |
| CO-1                | The student will get familiarized with the various communication skills |
| CO-2                | The student will apply the skills in real life situations               |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>FREIGHT FORWARDING (OCEAN &amp; AIR CARGO)</b>  |
| <b>Code</b>         | <b>20BLU11/ L20C13</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Students will be able to apply the Basic knowledge of freight forwarding including ocean and air cargo in the real-life situation |
| CO-2                | This subject will enable them to enhance their ability and professional skills  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>FORECASTING AND INVENTORY MANAGEMENT</b>  |
| <b>Code</b>         | <b>20BLU12/ L20C14</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Students will be able to apply the Basic knowledge of forecasting and inventory management in the real life situation |
| CO-2                | It will enable them to enhance their ability and professional skills in inventory management                          |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>SURFACE TRANSPORTATION</b>  |
| <b>Code</b>         | <b>20BLU13/ L20C15</b>  |
|                     | <b>On completion of the course, students would be able to</b>                                     |
| CO-1                | Students will be able to apply the knowledge of surface transportation in the real-life situation |
| CO-2                | Enhancement of professional skills with regard to the field.                                      |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>HUMAN RESOURCES MANAGEMENT</b>   |
| <b>Code</b>         | <b>20BLU14/ L20C16</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Students will be able to apply the basic knowledge of Human resource management in the real life situation |
| CO-2                | It will enable them to enhance their ability and professional skills                                       |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>MANAGEMENT AND COST ACCOUNTING</b>  |
| <b>Code</b>         | <b>20BLU15/ L20C17</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Students will be able to apply the Basic knowledge of Management and cost accounting in the real-life situation |
| CO-2                | This subject will enable them to enhance their ability and professional skills                                  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>SURFACE TRANSPORTATION – Practical</b>            |
| <b>Code</b>         | <b>20BLU16/ L20C18</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                |   |
| CO-2                |   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>FORECASTING AND INVENTORY MANAGEMENT</b>          |
| <b>Code</b>         | <b>20BLU17/ L20C19</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                |   |
| CO-2                |   |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Allied Course<br/>INLAND WATERWAYS &amp; COASTAL SHIPPING</b> |
| <b>Code</b>         | <b>20BLU18A/ L20A02A</b>   |
|                     | <b>On completion of the course, students would be able to</b>    |
| CO-1                |  |
| CO-2                |  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Allied Course<br/>COURIER, EXPRESS &amp; PARCEL SERVICES</b> |
| <b>Code</b>         | <b>20BLU18B/ L20A02B</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                |   |
| CO-2                |   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>APPRENTICESHIP – II</b>                                    |
| <b>Code</b>         | <b>20BLU19/ L20C20</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                |   |
| CO-2                |   |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>MIS FOR LOGISTICS</b>  |
| <b>Code</b>         | <b>20BLU20/ L20C21</b>   |
|                     | <b>On completion of the course, students would be able to</b>                                      |
| CO-1                | Students will be able to apply the Basic knowledge of MIS for Logistics in the real-life situation |
| CO-2                | This subject will enable them to enhance their ability and professional skills                     |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>INTERNATIONAL LOGISTICS MANAGEMENT</b>  |
| <b>Code</b>         | <b>20BLU21/ L20C22</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Students will be able to apply the Basic knowledge of International Logistics management in the real-life situation |
| CO-2                | This subject will enable them to enhance their ability and professional skills in Logistics                         |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>MARKETING MANAGEMENT</b>                                     |
| <b>Code</b>         | <b>20BLU22/ L20C23</b>   |
|                     | <b>On completion of the course, students would be able to</b>            |
| CO-1                | Differentiate the consumer and institutional buyer behavior.             |
| CO-2                | Justify the importance of products, branding and new product development |
| CO-3                | Understand the importance of Channel of distribution                     |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>RETAIL LOGISTICS AND E-COMMERCE</b>  |
| <b>Code</b>         | <b>20BLU23/ L20C24</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Students will be able to apply the basic knowledge of Retail logistics and E-commerce in the real life situation |
| CO-2                | This subject will enable them to enhance their ability and professional skills in Logistics and E commerce       |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>LOGISTICS NETWORK DESIGN</b>   |
| <b>Code</b>         | <b>20BLU24/ L20C25</b>   |
|                     | <b>On completion of the course, students would be able to</b>                                      |
| CO-1                | Students will be able to apply the knowledge of design and configuration of the logistics network. |
| CO-2                | to enhance their ability and professional skills in Logistics network design                       |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>PORT TERMINAL LOGISTICS</b>   |
| <b>Code</b>         | <b>20BLU25/ L20C26</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Students will be able to apply the Basic knowledge of Port terminals Logistics in the real-life situation |
| CO-2                | This subject will enable them to enhance their ability and professional skills in Port Terminal Logistics |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>LINER LOGISTICS</b>   |
| <b>Code</b>         | <b>20BLU26/ L20C27</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | This subject will enable students to enhance their ability and professional skills with regard to Logistics Industry. |
| CO-2                | Students will be able to apply the Basic knowledge of Liner Logistics in the real-life situation                      |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core</b><br><b>LOGISTICS NETWORK DESIGN- PRACTICAL</b>     |
| <b>Code</b>         | <b>20BLU27/ L20C28</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                |   |
| CO-2                |   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core</b><br><b>FREIGHT FORWARDING – PRACTICAL</b>          |
| <b>Code</b>         | <b>20BLU28/ L20C29</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                |   |
| CO-2                |   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Allied Course</b><br><b>INPLANT LOGISTICS</b>              |
| <b>Code</b>         | <b>20BLU29A/ L20A03A</b>                                      |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                |   |
| CO-2                |   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Allied Course</b><br><b>DOCUMENTATION FOR EXPORT &amp; IMPORTS</b> |
| <b>Code</b>         | <b>20BLU29B/ L20A03B</b>  |
|                     | <b>On completion of the course, students would be able to</b>         |
| CO-1                |   |
| CO-2                |   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>APPRENTICESHIP – III</b>   |
| <b>Code</b>         | <b>20BLU30/ L20C30</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Students will be able to perform the activities of E -Commerce, and Logistics terminals operations in the real-life situation |
| CO-2                | to enhance their ability and professional skills in Logistics   |



Since 1947

# PSG College of Arts & Science Coimbatore – 641 014

## Programme: BCom

### Programme Outcomes

|     | <b>On completion of the programme, the student will be able to</b>   |
|-----|--|
| PO1 | Become knowledgeable in the field of Commerce and apply the conceptual interpersonal managerial skills for decision making in a business enterprise.   |
| PO2 | Gain analytical skill in the areas of Accounting, Finance, Taxation and related Commerce courses   |
| PO3 | Understand and appreciate Professional Ethics, Community Living and Nation Building Initiatives.   |
| PO4 | Exhibit professional skills and knowledge for pursuing CA, CMA, ACS and other Career oriented programmes like ACCA, CFA, MBA and related PG Programmes |
| PO5 | Build competency to manage business and leadership challenges  |

### Programme Specific Outcomes

|      | <b>On completion of the programme, the student will be able</b>   |
|------|---|
| PSO1 | Apply the knowledge of Commerce in the domain of Business and Profession.   |
| PSO2 | Solve the complex problems in the field of commerce with an understanding of societal, legal and cultural impact.           |
| PSO3 | Demonstrate the acquired theoretical knowledge in practice workshop, which facilitates to work in the Business environment. |
| PSO4 | Form a part of member in a team with right attitudes.   |

### Course Outcomes

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>FINANCIAL ACCOUNTING - I</b>  |
| <b>Code</b>         | <b>18COU01</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Prepare Final accounts of a Sole trading concern.   |
| CO-2                | Identify the errors to rectify them and also reconcile bank and cash statements.  |
| CO-3                | Apply the various techniques while preparing Account Current, Average due date and to prepare accounts for bills of exchange. |
| CO-4                | Compile the accounting information for Consignment and Joint venture transactions.  |
| CO-5                | Prepare royalty account and depreciation account.   |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>PRINCIPLES OF MANAGEMENT</b>   |
| <b>Code</b>         | <b>18COU02</b>   |
|                     | <b>On completion of the course, students would be able to</b>                          |
| CO-1                | Exhibit the management concepts and their application in the global business scenario. |
| CO-2                | Apply the knowledge of planning in an organization which helps in decisionmaking.      |
| CO-3                | Remember the organization structure for a business concern.                            |
| CO-4                | Develop the interpersonal managerial skills to excel as a good leader.                 |
| CO-5                | Identify the deviations from the standards to motivate the work force.                 |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>FINANCIAL ACCOUNTING II</b>                       |
| <b>Code</b>         | <b>18COU04</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Prepare accounts for branches and departmental accounts.      |

|      |   |
|------|---|
| CO-2 | Apply the knowledge of accounting in business for Hire purchase business.                                   |
| CO-3 | Calculate the share of partners at the time of Admission and Retirement.                                    |
| CO-4 | Find out the deceased partner's share on death and prepare accounts while converting a firm into a company. |
| CO-5 | Prepare accounts on dissolution of a partnership firm.  |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>BANKING AND INSURANCE</b>  |
| <b>Code</b>         | <b>18COU05</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Recollect the structure of banking system in India.  |
| CO-2                | Handle the negotiable instrument with confidence and also deal with mode of availing loans and advances in business concern. |
| CO-3                | Utilize and benefit from different e-banking services rendered by the banks.   |
| CO-4                | Identify the appropriate Life Insurance policies for individuals.  |
| CO-5                | Utilize the different Non-Life insurance products catering their needs.  |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>PRACTICE WORKSHOP-I</b>                                    |
| <b>Code</b>         | <b>18COU06</b>   |
|                     | <b>On completion of the course, students would be able to</b>          |
| CO-1                | Apply the operating procedures for banking transactions                |
| CO-2                | Analyze and prepare feasibility report to obtain bank loan             |
| CO-3                | Identify and apply the knowledge for availing educational loan         |
| CO-4                | Apply to Register for SSI units, PAN card and prepare partnership deed |
| CO-5                | Prepare organization chart for a public limited company                |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>ACCOUNTANCY – I</b>                               |
| <b>Code</b>         | <b>18ECU03/18MAU03/18MCU04</b>                                |
|                     | <b>On completion of the course, students would be able to</b> |

|      |  |
|------|--|
| CO-1 | Apply the concepts and convention in the preparation of Trial Balance.           |
| CO-2 | Prepare subsidiary books.  |
| CO-3 | Identify the errors to rectify them and also reconcile cash and bank statements. |
| CO-4 | Compile and prepare Final accounts of a Sole trading concern.                    |
| CO-5 | Calculate Average due date and prepare Account Current.                          |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>ACCOUNTANCY – II</b>  |
| <b>Code</b>         | <b>18ECU06/18MAU06/18MCU08</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Compile and prepare the accounts relating to consignment business.                                      |
| CO-2                | Apply the knowledge of accounting in the business related to jointventure.                              |
| CO-3                | Prepare the final accounts of non-trading concern.  |
| CO-4                | Calculate Depreciation and Prepare depreciation accounts.   |
| CO-5                | Pass the entries in the books of seller and hire purchaser as well as inthe books of lessor and lessee. |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>COST ACCOUNTING</b>                                     |
| <b>Code</b>         | <b>18COU08</b>  |
|                     | <b>On completion of the course, students would be able to</b>       |
| CO-1                | Apply the Costing Concepts.   |
| CO-2                | Identify Appropriate Methods to control the Material Wastage.       |
| CO-3                | Apply the Suitable Methods for calculating the wages for labourers. |
| CO-4                | Prepare Cost Report.  |
| CO-5                | Apply the knowledge for preparing Reconciliation Statement.         |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>INCOME TAX</b>  |
| <b>Code</b>         | <b>18COU09</b>  |
|                     | <b>On completion of the course, students would be able to</b>             |
| CO-1                | Apply the concepts for determining the Residential Status of an Assessee. |

|      |  |
|------|--|
| CO-2 | Calculate Income from Salary and House property. |
| CO-3 | Compute Income from Business and Capital Gains.  |
| CO-4 | Compute the Gross Total Income of an Assessee.   |
| CO-5 | Know the Procedures for Assessment.              |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>COMPUTER PRACTICAL I- BUSINESS DATA PROCESSING</b>                   |
| <b>Code</b>         | <b>18COU10</b>   |
|                     | <b>On completion of the course, students would be able to</b>                    |
| CO-1                | Draft Business letters, using features of MS Word.                               |
| CO-2                | Compute various application of business using MS Excel for Managerial decisions. |
| CO-3                | Develop Effective Business presentation using Power point.                       |
| CO-4                | Administer DBMS effectively.   |
| CO-5                | Apply the SPSS packages for Data Analysis.                                       |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>COMPANY LAW</b>   |
| <b>Code</b>         | <b>18COU11</b>  |
|                     | <b>On completion of the course, students would be able to</b>       |
| CO-1                | Follow the Procedures to form a Company type of Organisation.       |
| CO-2                | Identify the Documents to be prepared, for Incorporating a Company. |
| CO-3                | Apprehend the Procedure to be followed in Issue of Share            |
| CO-4                | Manage the Company Affairs.   |
| CO-5                | Conduct Meetings and write Minutes.                                 |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>CORPORATE ACCOUNTING – I</b>                                       |
| <b>Code</b>         | <b>18COU13</b>   |
|                     | <b>On completion of the course, students would be able to</b>                  |
| CO-1                | Recall the Accounting entries for Issue of Shares and Debentures in a Company. |
| CO-2                | Follow the Accounting Procedure for Redeeming Shares and Debentures.           |

|      |  |
|------|--|
| CO-3 | Prepare Final Accounts as per the Provisions of the Companies Act.                               |
| CO-4 | Value the Shares and Goodwill of the Company and prepare Accounts in the Process of Liquidation. |
| CO-5 | Apply the knowledge of Accounting with respect to Electricity Companies.                         |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>BUSINESS LAW</b>                                  |
| <b>Code</b>         | <b>18COU14</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Recall the basic concept of Laws.                             |
| CO-2                | Apply the knowledge about the Laws relating to Agreement.     |
| CO-3                | Demonstrate the concept relating to Bailment and Pledge.      |
| CO-4                | Apply the knowledge gained in the Sale of Goods.              |
| CO-5                | Perceive the knowledge about the Rights of Consumers.         |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>MARKETING</b>   |
| <b>Code</b>         | <b>18COU15</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Apply the Modern Marketing Concepts in the Business Scenario.   |
| CO-2                | Identify the suitable Marketing Mix for different Market Segments                                     |
| CO-3                | Develop Strategies for Product Placement to face the competition.                                     |
| CO-4                | Apply the knowledge on Pricing in Business and evaluate the Distribution Strategies for the Business. |
| CO-5                | Identify the Promotional Techniques to compete in the Market.   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>INDIRECT TAXATION</b>                             |
| <b>Code</b>         | <b>18COU16</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Recall the constitutional background of Taxes.                |
| CO-2                | Operate in the GST Platform.                                  |
| CO-3                | Identify Exempted Supply and calculate the Value of Supply.   |

|      |   |
|------|---|
| CO-4 | Prepare Input Tax Credit Returns.                           |
| CO-5 | Apply knowledge on Customs Duty, Import & Export Procedure. |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>PRACTICE WORKSHOP – II</b>   |
| <b>Code</b>         | <b>18COU17</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Prepare the Purchase Requisition, Tender Form and Comparative Statement of Quotations for a Company. |
| CO-2                | Apply knowledge on documents to be filed related to Exports and Imports.                             |
| CO-3                | Apply the procedure for opening the Demat Trading Account.   |
| CO-4                | Apply the filing procedures for Filing the Life and General Insurance Forms.                         |
| CO-5                | Identify and apply the ways of Online Purchasing and Online Money Transferring System.               |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>FUNDAMENTALS OF E-COMMERCE AND M-COMMERCE</b>     |
| <b>Code</b>         | <b>18COU18</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Identify the e-Commerce Applications.                         |
| CO-2                | Evaluate the Network Security System.                         |
| CO-3                | Apply the interactive Marketing Process through Internet.     |
| CO-4                | Operate in the platform of Mobile Commerce.                   |
| CO-5                | Utilize the e-Technology Services.                            |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>CORPORATE ACCOUNTING – II</b>  |
| <b>Code</b>         | <b>18COU19</b>   |
|                     | <b>On completion of the course, students would be able to</b>                    |
| CO-1                | Recall the Accounting entries for Amalgamation and Absorption of Companies.      |
| CO-2                | Make entries in the Books of Account at the time of Reconstruction of a company. |
| CO-3                | Prepare Final Accounts for Banking Companies.                                    |

|      |  |
|------|--|
| CO-4 | Prepare Insurance Company Accounts.                    |
| CO-5 | Prepare Accounts for Holding and Subsidiary Companies. |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>BUSINESS COMMUNICATION</b>                                   |
| <b>Code</b>         | <b>18COU20</b>   |
|                     | <b>On completion of the course, students would be able to</b>            |
| CO-1                | Apply the Principles of Communication in Business Correspondence.        |
| CO-2                | Draft Business Letters by understanding the Structure of Letter Writing. |
| CO-3                | Apply the various Methods of Internal Communication.                     |
| CO-4                | Use the various skills in External Communication.                        |
| CO-5                | Effectively use the various Channels of Communication.                   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Discipline Specific Elective – I<br/>FINANCIAL MANAGEMENT</b>        |
| <b>Code</b>         | <b>18COU21A</b>   |
|                     | <b>On completion of the course, students would be able to</b>           |
| CO-1                | Apply the concepts in various Functional areas of Financial Management. |
| CO-2                | Evaluate the Investment opportunities in Business.                      |
| CO-3                | Compute the overall Cost of Capital of the Company.                     |
| CO-4                | Develop optimum Capital Structure.                                      |
| CO-5                | Estimate Working Capital requirements of a Firm.                        |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Discipline Specific Elective – I<br/>WORKING CAPITAL MANAGEMENT</b>               |
| <b>Code</b>         | <b>18COU21B</b>  |
|                     | <b>On completion of the course, students would be able to</b>                        |
| CO-1                | Forecast Working Capital Management Requirements of a Firm.                          |
| CO-2                | Utilize the Working Capital Financing Mix effectively.                               |
| CO-3                | Manage the Receivables effectively.  |
| CO-4                | Apply Cash and Inventory Management Tools for optimum Cash and Inventory Management. |
| CO-5                | Assess the Working Capital Finance.  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>INTERNATIONAL TRADE</b>                                       |
| <b>Code</b>         | <b>18COU22 / 20COU22</b>  |
|                     | <b>On completion of the course, students would be able to</b>             |
| CO-1                | Evaluate the theories of International Trade.                             |
| CO-2                | Identify the Trade Procedures and Policies.                               |
| CO-3                | Apply the knowledge on Commodity Agreements and Balance of Payment.       |
| CO-4                | Operate in the Foreign Exchange Market.                                   |
| CO-5                | Assessthe various types ofInternational Investments and its Implications. |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>COMPUTER PRACTICAL II – COMPUTERIZED ACCOUNTING<br/>(TALLY)</b> |
| <b>Code</b>         | <b>18COU23</b>  |
|                     | <b>On completion of the course, students would be able to</b>               |
| CO-1                | Create company using various features of Tally.                             |
| CO-2                | Prepare Statement of Trading/Profit and loss Account and Balance Sheet.     |
| CO-3                | Prepare Inventory Report and Stock summary.                                 |
| CO-4                | Prepare Bank Reconciliation Statement.                                      |
| CO-5                | Compute the GST for Business Transactions.                                  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>MANAGEMENT ACCOUNTING</b>   |
| <b>Code</b>         | <b>18COU25</b>  |
|                     | <b>On completion of the course, students would be able to</b>                         |
| CO-1                | Install Management Accounting System in an Organization.                              |
| CO-2                | Utilize the Techniques of Financial Statement for Business Decisions.                 |
| CO-3                | Prepare Funds Flow and Cash Flow Statements for Business.                             |
| CO-4                | Apply the different Techniques for Preparing of Financial Budgets.                    |
| CO-5                | Evaluate the Marginal and Standard Costing techniques in various Business Situations. |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Discipline Specific Elective – II<br/>LOGISTICS MANAGEMENT</b> |
| <b>Code</b>         | <b>18COU26A</b>   |
| <b>CO No.</b>       | <b>On completion of the course, students would be able to</b>     |
| CO-1                | Identify the Components of Logistics.                             |
| CO-2                | Operate the various Modes of Transportation.                      |
| CO-3                | Identify Multi Model Transport Network System.                    |
| CO-4                | Utilize the Warehousing and Packaging benefits.                   |
| CO-5                | Identify the different types of Distribution System.              |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Discipline Specific Elective – II<br/>SUPPLY CHAIN MANAGEMENT</b> |
| <b>Code</b>         | <b>18COU26B</b>  |
|                     | <b>On completion of the course, students would be able to</b>        |
| CO-1                | Formulate Strategies for Supply Chain Management.                    |
| CO-2                | Handle Customer related to Sales and Services.                       |
| CO-3                | Identify Inventory Control for Supply Chain Operation.               |
| CO-4                | Establish own Business or Supply Chain Operation.                    |
| CO-5                | Operate with Location Strategy and Supply Chain Control System.      |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>AUDITING</b>   |
| <b>Code</b>         | <b>18COU27</b>   |
|                     | <b>On completion of the course, students would be able to</b>                |
| CO-1                | Identify the different types for Audit.                                      |
| CO-2                | Apply the techniques of Internal check.                                      |
| CO-3                | Identify the Powers and Responsibilities of an Auditor.                      |
| CO-4                | Recollect the Provisions for conducting Company Audit and Specialized Audit. |
| CO-5                | Apply the Provisions related to Depreciation and Reserves.                   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>PRIMARY AND SECONDARY MARKET</b>                                |
| <b>Code</b>         | <b>18COU28</b>  |
|                     | <b>On completion of the course, students would be able to</b>               |
| CO-1                | Identify and analyze the various avenues of Investment.                     |
| CO-2                | Apply the knowledge of various Markets and Instrument in business scenario. |
| CO-3                | Apply the norms relating to Stock Exchange.                                 |
| CO-4                | Identify the functions of SEBI and rights of the Investors.                 |
| CO-5                | Analyze the Stock Market Index and Stock Exchange Trading.                  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>ENTREPRENEURIAL DEVELOPMENT</b>                     |
| <b>Code</b>         | <b>18COU29</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Recall the qualities of an Entrepreneur.                        |
| CO-2                | Prepare the Feasibility Report for the business.                |
| CO-3                | Apply the Procedures for starting SSI.                          |
| CO-4                | Identify the Incentive Schemes.                                 |
| CO-5                | Utilize the Institutional Assistance for the business ventures. |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>PRACTICE WORKSHOP – III</b>                                       |
| <b>Code</b>         | <b>18COU30</b>  |
|                     | <b>On completion of the course, students would be able to</b>                 |
| CO-1                | Analyze and prepare the Annual Report, Agenda and Minutes of a Company.       |
| CO-2                | File the IT returns for a University Professor / Teacher                      |
| CO-3                | Prepare the Curriculum Vitae.   |
| CO-4                | Prepare an Advertisement Copy of a product/ service.                          |
| CO-5                | Apply the knowledge for preparing Share Trading Report and the Business Plan. |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Allied<br/>ACCOUNTING AND INSURANCE</b>  |
| <b>Code</b>         | <b>18STU10</b>  |
|                     | <b>On completion of the course, students would be able to</b>                               |
| CO-1                | Identify relevant Principles to record the Accounting Transactions.                         |
| CO-2                | Prepare the relevant Subsidiary Books.  |
| CO-3                | Prepare Financial Statement of Accounts of a Sole Trading Concern with various adjustments. |
| CO-4                | Assess the various Risk and apply the appropriate methods of handling the Risk.             |
| CO-5                | Differentiate the Life Insurance from Non-life Insurance Policies.                          |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Allied Cluster -I<br/>BASIC ACCOUNTING</b>                       |
| <b>Code</b>         | <b>18GECCOU</b>   |
|                     | <b>On completion of the course, students would be able to</b>       |
| CO-1                | Identify relevant Principles to record the Accounting Transactions. |
| CO-2                | Prepare the Trial Balance.  |
| CO-3                | Prepare Financial Statement of Accounts of a Sole Trading Concern   |



Since 1947

## PSG College of Arts & Science Coimbatore – 641 014

### Programme: BCom e-Commerce

#### Programme Outcomes

|      | <b>On completion of the programme, the student will be able to</b>   |
|------|--|
| PO-1 | Become knowledgeable in the field of commerce blended with e-Commerce and apply the conceptual, interpersonal and managerial skills for decision making in a business enterprise.  |
| PO-2 | Gain application and innovative skills in the field of programming and designing through courses like C & C++, JAVA, RDBMS and Oracle, Web designing, VB.net e-Technology, Mobile application technology and ICT enabled technologies. |
| PO-3 | Understand and appreciate Professional Ethics, Community Living and Nation Building Initiatives.   |
| PO-4 | Exhibit entrepreneurial skills in the field of web designing and development, online store creation, advertising and sales promotion and e-Commerce consultancy services.  |
| PO-5 | Build competency to manage the business and leadership challenges.   |

#### Programme Specific Outcomes

|       | <b>On completion of the programme, the student will be able</b>  |
|-------|--|
| PSO-1 | Apply the knowledge of commerce in the domain of e-Commerce platforms.   |
| PSO-2 | Solve the complex problems in the field of e-Commerce with an understanding of the societal, legal and cultural impact.                        |
| PSO-3 | Demonstrate the acquired theoretical knowledge in practical classes like web technology which facilitates to work in the e-Commerce platforms. |
| PSO-4 | Form a part of member in a team with right attitudes.  |

### Course Outcomes

| Course Title | Core<br>FINANCIAL ACCOUNTING – I  |
|--------------|---|
| <b>Code</b>  | <b>18COE01</b>  |
|              | <b>On completion of the course, students would be able to</b>   |
| CO-1         | Prepare Final accounts of a Sole trading concern.   |
| CO-2         | Identify the errors to rectify them and also reconcile bank and cash statements.  |
| CO-3         | Apply the various techniques while preparing Account Current, Average due date and to prepare accounts for bills of exchange. |
| CO-4         | Compile the accounting information for Consignment and Joint venture transactions.  |
| CO-5         | Prepare royalty account and depreciation account.   |

| Course Title | Core<br>COMPUTER PRACTICAL I - DESKTOP PUBLISHING  |
|--------------|--|
| <b>Code</b>  | <b>18COE02</b>   |
|              | <b>On completion of the course, students would be able to</b>  |
| CO-1         | Evaluate different desktop publishing packages using standard criteria   |
| CO-2         | Manage graphic elements.   |
| CO-3         | Create computer software curriculums of art design and art effects obtainable.   |
| CO-4         | Develop and design various types of technical and non-technical publications, reports, diagrams, brochures, conference materials, posters and presentations. |

| Course Title | Core<br>FINANCIAL ACCOUNTING II   |
|--------------|---|
| <b>Code</b>  | <b>18COE04</b>  |
|              | <b>On completion of the course, students would be able to</b>             |
| CO-1         | Prepare accounts for branches and departmental accounts.                  |
| CO-2         | Apply the knowledge of accounting in business for Hire purchase business. |

|      |   |
|------|---|
| CO-3 | Calculate the share of partners at the time of Admission and Retirement.                                    |
| CO-4 | Find out the deceased partner's share on death and prepare accounts while converting a firm into a company. |
| CO-5 | Prepare accounts on dissolution of a partnership firm.  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>COMPUTER PRACTICAL II EXCEL &amp; TALLY</b>                                 |
| <b>Code</b>         | <b>18COE05</b>  |
|                     | <b>On completion of the course, students would be able to</b>                           |
| CO-1                | Understand the features of Tally accounting software from the business perspective.     |
| CO-2                | Develop formulas to simplify calculations.  |
| CO-3                | Create future excel spreadsheets with ease and comfort.                                 |
| CO-4                | Employ scenario manager to conduct sensitivity analysis to solve the business problems. |
| CO-5                | Apply quantitative method for business decision making                                  |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>PRACTICE WORKSHOP-I</b>                                    |
| <b>Code</b>         | <b>18COE06</b>   |
|                     | <b>On completion of the course, students would be able to</b>          |
| CO-1                | Apply the operating procedures for banking transactions                |
| CO-2                | Analyze and prepare feasibility report to obtain bank loan             |
| CO-3                | Identify and apply the knowledge for availing educational loan         |
| CO-4                | Apply to Register for SSI units, PAN card and prepare partnership deed |
| CO-5                | Prepare organization chart for a public limited company                |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>COST ACCOUNTING</b>   |
| <b>Code</b>         | <b>18COU08/18COC08/18COE08/18AFU08/18CRM08/18BPU08/18FTU08/<br/>18FSU08/18CBI08</b> |

|      | <b>On completion of the course, students would be able to</b>   |
|------|---|
| CO-1 | Apply the Costing Concepts.                                     |
| CO-2 | Identify Appropriate Methods to control the Material Wastage.   |
| CO-3 | Apply Suitable Methods for calculating the wages for labourers. |
| CO-4 | Prepare Cost Report.  |
| CO-5 | Apply knowledge for preparing Reconciliation Statement.         |

| <b>Course Title</b> | <b>Core INCOME TAX</b>  |
|---------------------|---|
| <b>Code</b>         | <b>18COU09/18COC09/18COE09/18AFU09/18CRM09/18FTU09/18FSU09/18CBI09</b>    |
|                     | <b>On completion of the course, students would be able to</b>             |
| CO-1                | Apply the concepts for determining the Residential Status of an Assessee. |
| CO-2                | Calculate Income from Salary and House property.                          |
| CO-3                | Compute Income from Business and Capital Gains.                           |
| CO-4                | Compute the Gross Total Income of an Assessee.                            |
| CO-5                | Know the Procedures for Assessment.                                       |

| <b>Course Title</b> | <b>Core BASICS OF E-COMMERCE AND M-COMMERCE</b>                      |
|---------------------|--|
| <b>Code</b>         | <b>18COE10</b>   |
|                     | <b>On completion of the course, students would be able to</b>        |
| CO-1                | Apply the basic concepts of e-Commerce                               |
| CO-2                | Evaluate the EDI applications in business.                           |
| CO-3                | Compare the Electronic Payment Mechanisms.                           |
| CO-4                | Apply the Mobile Commerce Payment Methods and Security.              |
| CO-5                | Categorize the various e-Security Issues and its Management Systems. |

| <b>Course Title</b> | <b>Core FUNDAMENTALS OF C &amp; C++</b> |
|---------------------|---|
| <b>Code</b>         | <b>18COE11/18COC11</b>                  |

|      | <b>On completion of the course, students would be able to</b>                              |
|------|--|
| CO-1 | Explore the basic Structure of C-Programming, variable declaration and usage of variables. |
| CO-2 | Evaluate the principles of control structures and arrays.                                  |
| CO-3 | Build programs using Structure, Union and Pointers   |
| CO-4 | Generate code using concepts of Object-Oriented Programming in C++.                        |
| CO-5 | Apply the knowledge of Polymorphism and Inheritance.                                       |

| <b>Course Title</b> | <b>Core<br/>COMPUTER PRACTICAL III - C&amp;C++</b>                             |
|---------------------|--|
| <b>Code</b>         | <b>18COE12/18COC12</b>   |
|                     | <b>On completion of the course, students would be able to</b>                  |
| CO-1                | Develop the ability to analyze a problem and develop an algorithm to solve it. |
| CO-2                | Write programs using Control structures.                                       |
| CO-3                | Create programs using classes and objects.                                     |
| CO-4                | Use the basic object-oriented design principles in computer problem solving.   |

| <b>Course Title</b> | <b>Core<br/>BUSINESS ECONOMICS</b>   |
|---------------------|--|
| <b>Code</b>         | <b>18COC13/18COE13/18AFU12/18CRM12<br/>18FSU12/18FTU12/18BPU12/18CBI12</b> |
|                     | <b>On completion of the course, students would be able to</b>              |
| CO-1                | Identify and apply the concept of Economics in Business Decision Making.   |
| CO-2                | Forecast the Market Demand for the Product.                                |
| CO-3                | Analyze the changes in output due to changes in Factors of Production.     |
| CO-4                | Estimate the Break-Even Point in Business.                                 |
| CO-5                | Determine the Equilibrium Point under Different Market Structures.         |

| <b>Course Title</b> | <b>Core<br/>CORPORATE ACCOUNTING – I</b>                       |
|---------------------|--|
| <b>Code</b>         | <b>18COU13/18COC14/18COE14/18AFU13/18CRM13/18BPU13/18FTU13</b> |

| <b>18FSU13/18CBI13</b>  |  |
|---|--|
| <b>On completion of the course, students would be able to</b> |  |
| CO-1  | Recall the Accounting entries for Issue of Shares and Debentures in a Company.                   |
| CO-2  | Follow the Accounting Procedure for Redeeming Shares and Debentures.                             |
| CO-3  | Prepare Final Accounts as per the Provisions of the Companies Act.                               |
| CO-4  | Value the Shares and Goodwill of the Company and prepare Accounts in the Process of Liquidation. |
| CO-5  | Apply the knowledge of Accounting with respect to Electricity Companies.                         |

| <b>Course Title</b>   | <b>Core BUSINESS LAW</b>                                  |
|---|---|
| <b>Code</b>   | <b>18COE15/18COC15</b>                                    |
| <b>On completion of the course, students would be able to</b> |   |
| CO-1  | Recall the basic concept of Laws.                         |
| CO-2  | Apply the knowledge about the Laws relating to Agreement. |
| CO-3  | Demonstrate the concept relating to Bailment and Pledge.  |
| CO-4  | Apply the knowledge gained in the Sale of Goods.          |
| CO-5  | Perceive the knowledge about the Rights of Consumers.     |

| <b>Course Title</b>   | <b>Core MARKETING</b>   |
|---|---|
| <b>Code</b>   | <b>18COU15/18COC16/18COE16</b>  |
| <b>On completion of the course, students would be able to</b> |   |
| CO-1  | Apply the Modern Marketing Concepts in the Business Scenario.   |
| CO-2  | Identify the suitable Marketing Mix for different Market Segments.                                    |
| CO-3  | Develop Strategies for Product Placement to face the competition.                                     |
| CO-4  | Apply the knowledge on Pricing in Business and evaluate the Distribution Strategies for the Business. |
| CO-5  | Identify the Promotional Techniques to compete in the Market.   |

| <b>Course</b> | <b>Core</b> |
|---------------|-------------|
|---------------|-------------|

|              |   |
|--------------|---|
| <b>Title</b> | <b>JAVA PROGRAMMING</b>   |
| <b>Code</b>  | <b>18COE17/18COC17</b>  |
|              | <b>On completion of the course, students would be able to</b>     |
| CO-1         | Apply the object oriented programming concepts.                   |
| CO-2         | Develop the structure and model of the Java Programming language. |
| CO-3         | Design Interfaces and Packages in Java.                           |
| CO-4         | Generate Multithreaded Programs in Java.                          |
| CO-5         | Write Graphics and Applet Programs.                               |

|               |   |
|---------------|---|
| <b>Course</b> | <b>Core</b>   |
| <b>Title</b>  | <b>COMPUTER PRACTICAL IV - JAVA PROGRAMMING</b>                           |
| <b>Code</b>   | <b>18COE18/18COC18</b>  |
|               | <b>On completion of the course, students would be able to</b>             |
| CO-1          | Write programs using the fundamental concepts of Java.                    |
| CO-2          | Implement Object Oriented Programming concepts in Java.                   |
| CO-3          | Demonstrate Inheritance, Interfaces and Packages in Java                  |
| CO-4          | Develop Multithreaded programs using thread class and runnable interface  |
| CO-5          | Design Basic shapes using Graphics class and display using Applet Viewer. |

|               |  |
|---------------|--|
| <b>Course</b> | <b>Core</b>  |
| <b>Title</b>  | <b>PRACTICE WORKSHOP – II</b>  |
| <b>Code</b>   | <b>18COU17/18COC19/18COE19/18AFU17/18CRM17/18BPU17/18FTU17<br/>18FSU17/18CBI17</b>                   |
|               | <b>On completion of the course, students would be able to</b>  |
| CO-1          | Prepare the Purchase Requisition, Tender Form and Comparative Statement of Quotations for a Company. |
| CO-2          | Apply knowledge on documents to be filed related to Exports and Imports.                             |
| CO-3          | Apply the procedure for opening the Demat Trading Account.   |
| CO-4          | Apply the filing procedures for Filing the Life and General Insurance Forms.                         |
| CO-5          | Identify and apply the ways of Online Purchasing and Online Money Transferring System.               |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>CORPORATE ACCOUNTING – II</b>  |
| <b>Code</b>         | <b>18COU19/18COC21/18COE21/18AFU19/18CRM19/18BPU19/18FTU19<br/>18FSU19/18CBI19</b> |
|                     | <b>On completion of the course, students would be able to</b>                      |
| CO-1                | Recall the Accounting entries for Amalgamation and Absorption of Companies.        |
| CO-2                | Make entries in the Books of Account at the time of Reconstruction of a Company.   |
| CO-3                | Prepare Final Accounts for Banking Companies.                                      |
| CO-4                | Prepare Insurance Company Accounts.  |
| CO-5                | Prepare Accounts for Holding and Subsidiary Companies.                             |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>VISUAL BASIC .NET</b>  |
| <b>Code</b>         | <b>18COE22</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Apply fundamental skills in utilizing the tools of visual environment in terms of the set of available command menus and toolbars and toolbox. |
| CO-2                | Produce and use specialized new GUI components.  |
| CO-3                | Apply Visual programming to software development by designing projects with the necessary control structures.                                  |
| CO-4                | Implement applications while using forms, dialogs, functions and other types of GUI Components.  |
| CO-5                | Use visual programming environment to create simple visual applications using ADO.NET.   |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>COMPUTER PRACTICAL V – VISUAL BASIC .NET</b>         |
| <b>Code</b>         | <b>18COE23</b>   |
|                     | <b>On completion of the course, students would be able to</b>    |
| CO-1                | Design, Create, Build, and Debug Visual Basic Applications.      |
| CO-2                | Explore Visual Basic's Integrated Development Environment (IDE). |

|      |  |
|------|--|
| CO-3 | Write and apply loop structures to perform repetitive tasks.                         |
| CO-4 | Write and apply procedures, sub-procedures, and functions to create manageable code. |
| CO-5 | Develop Applications using VB.Net Database Objects.                                  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Discipline Specific Elective – I<br/>e- SERVICES</b>       |
| <b>Code</b>         | <b>18COE24A</b>   |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Apply the concepts of e-Services in different sectors         |
| CO-2                | Develop Business Model for their ventures                     |
| CO-3                | Apply social media marketing strategy in business             |
| CO-4                | Create an insight about Financial Services through e-Services |
| CO-5                | Generate e-Governance and e-CRM practices.                    |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Discipline Specific Elective – I<br/>MANAGEMENT INFORMATION SYSTEM</b> |
| <b>Code</b>         | <b>18COE24B</b>   |
|                     | <b>On completion of the course, students would be able to</b>             |
| CO-1                | Apply the basic concepts of MIS   |
| CO-2                | Understand the concepts of information and system                         |
| CO-3                | Evaluate the DMS and DSS  |
| CO-4                | Develop MIS using different tools and techniques                          |
| CO-5                | Implement the MIS system  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>FINANCIAL MANAGEMENT</b>                                    |
| <b>Code</b>         | <b>18COU21A/18COE25/18AFU21A/18CRM22/18FSU21A</b>                       |
|                     | <b>On completion of the course, students would be able to</b>           |
| CO-1                | Apply the concepts in various Functional areas of Financial Management. |
| CO-2                | Evaluate the Investment opportunities in Business.                      |

|      |   |
|------|---|
| CO-3 | Compute the overall Cost of Capital of the Company. |
| CO-4 | Develop optimum Capital Structure.                  |
| CO-5 | Estimate Working Capital requirements of a Firm.    |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>INTRODUCTION TO MOBILE APPLICATION DEVELOPMENT</b>      |
| <b>Code</b>         | <b>18COE26</b>  |
|                     | <b>On completion of the course, students would be able to</b>       |
| CO-1                | Describe the requirements for mobile applications                   |
| CO-2                | Explain the challenges in mobile application design and development |
| CO-3                | Analyze the design for mobile application for specific requirements |
| CO-4                | Distinguish between the various Mobile Operating Systems.           |
| CO-5                | Compare the various Mobile Application Development Protocols        |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>MANAGEMENT ACCOUNTING</b>  |
| <b>Code</b>         | <b>18COU25/18COC27/18COE28/18AFU25/18CRM25/18BPU25/18FTU25<br/>18FSU25/18CBI25</b> |
|                     | <b>On completion of the course, students would be able to</b>                      |
| CO-1                | Install Management Accounting System in an Organization                            |
| CO-2                | Utilize the Techniques of Financial Statement for Business Decisions               |
| CO-3                | Prepare Funds Flow and Cash Flow Statements for Business                           |
| CO-4                | Apply the different Techniques for Preparing of Financial Budgets                  |
| CO-5                | Apply Marginal and Standard Costing techniques in various Business Situations      |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Discipline Specific Elective – II<br/>e-COMMERCE TECHNOLOGY</b>  |
| <b>Code</b>         | <b>18COE29A</b>   |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Apply the basic concepts of Network Security.   |
| CO-2                | Develop an e-Commerce application using Web Designing Tools.  |
| CO-3                | Evaluate the testing process for e-Commerce Application Design.   |
| CO-4                | Examine the different types of web Designing Technologies and Deployment Methodologies commonly used in industries. |
| CO-5                | Understand the various modern e-Commerce Technologies.  |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Discipline Specific Elective – II<br/>ASP.NET PROGRAMMING</b> |
| <b>Code</b>         | <b>18COE29B</b>  |
|                     | <b>On completion of the course, students would be able to</b>    |
| CO-1                | Apply the basic concepts of .Net Framework.                      |
| CO-2                | Evaluate the concepts of C#.                                     |
| CO-3                | Compare the different controls of C#                             |
| CO-4                | Apply the object oriented programming concepts.                  |
| CO-5                | Categorize the various controls used in ADO.Net.                 |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>INTRODUCTION TO ERP</b>   |
| <b>Code</b>         | <b>18COE30</b>  |
|                     | <b>On completion of the course, students would be able to</b>               |
| CO-1                | Classify the business models of ERP according to the business requirements. |
| CO-2                | Analyze the various technologies of ERP.                                    |
| CO-3                | Analyze the ERP implementation process and adapt the strategies             |
| CO-4                | Assessment of ERP market.   |
| CO-5                | Reframe ERP using recent trends.  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>LOGISTICS MANAGEMENT</b>                          |
| <b>Code</b>         | <b>18COU26A/18COE31/18FTU26A</b>                              |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Identify the Components of Logistics.                         |
| CO-2                | Operate the various Modes of Transportation.                  |
| CO-3                | Identify Multi Model Transport Network System.                |
| CO-4                | Utilize the Warehousing and Packaging benefits.               |
| CO-5                | Identify the different types of Distribution System.          |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>WEB PROGRAMMING</b>                                   |
| <b>Code</b>         | <b>18COE32/18COC31</b>  |
|                     | <b>On completion of the course, students would be able to</b>     |
| CO-1                | Explore the fundamental tags of HTML.                             |
| CO-2                | Create interactive web pages using HTML and CSS.                  |
| CO-3                | Develop programs using control structures and arrays in VBSCRIPT. |
| CO-4                | Design server side programs using JAVASCRIPT.                     |
| CO-5                | Write Form Validation code in JAVASCRIPT                          |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>COMPUTER PRACTICAL VI - WEB PROGRAMMING</b>                                |
| <b>Code</b>         | <b>18COE33/18COC32</b>   |
|                     | <b>On completion of the course, students would be able to</b>                          |
| CO-1                | Design web pages using HTML Programming.   |
| CO-2                | Develop programs using scripting languages to add interactive components to web pages. |
| CO-3                | Create style sheets to format the web pages.   |
| CO-4                | Build dynamic web pages using JavaScript and VBScript.                                 |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>PRACTICE WORKSHOP – III</b>  |
| <b>Code</b>         | <b>18COU30/18COC33/18COE34/18AFU30/18CRM30/18BPU30/18FTU30<br/>18FSU30/18CBI30</b> |
|                     | <b>On completion of the course, students would be able to</b>                      |
| CO-1                | Analyze and prepare the Annual Report, Agenda and Minutes of a Company             |
| CO-2                | File the IT returns for a University Professor / Teacher                           |
| CO-3                | Prepare the Curriculum Vitae.  |
| CO-4                | Prepare an Advertisement Copy of a product/ service.                               |
| CO-5                | Apply the knowledge for preparing Share Trading Report and the Business Plan.      |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Generic Elective Course<br/>WEB DESIGNING</b>                   |
| <b>Code</b>         | <b>18GECCOE</b>  |
|                     | <b>On completion of the course, students would be able to</b>      |
| CO-1                | Analyze the web designing standards and Principles                 |
| CO-2                | Classify the different Web technologies like SEO, Cloud computing. |
| CO-3                | Develop a Html web page with the necessary tags and style sheets.. |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Interdisciplinary Course<br/>E-COMMERCE &amp; E-BUSINESS</b>      |
| <b>Code</b>         | <b>19NMB17</b>   |
|                     | <b>On completion of the course, students would be able to</b>        |
| CO-1                | Apply the basic concepts of e-Commerce                               |
| CO-2                | Evaluate the EDI applications in business.                           |
| CO-3                | Compare the Electronic Payment Mechanisms.                           |
| CO-4                | Apply the networking concepts and prevent the networks.              |
| CO-5                | Categorize the various e-Security Issues and its Management Systems. |



Since 1947

## PSG College of Arts & Science Coimbatore – 641 014

### Programme: Bcom Commerce with Computer Applications

#### Programme Outcomes

|      | On completion of the programme, the student will be able to   |
|------|---|
| PO-1 | Become knowledgeable in the field of Commerce with Computer Applications and apply the conceptual, interpersonal and managerial skills for decision making in business enterprise.            |
| PO-2 | Gain analytical skills in the areas of Accounting, Taxation, Finance, E-Banking and Internet, and Enterprise Resource Planning.   |
| PO-3 | Understand and appreciate Professional Ethics, Community Living and Nation Building Initiatives.  |
| PO-4 | Exhibit knowledge and technical skills for pursuing post-graduation in Commerce and Computer Applications and other career oriented programs like SAP, ERP, Data Mining and Data Warehousing. |
| PO-5 | Build competency to manage business and leadership challenges.  |

#### Programme Specific Outcomes

|       | On completion of the programme, the student will be able  |
|-------|---|
| PSO-1 | Apply the knowledge of Commerce with Computer Applications in the domain of Information Technology.   |
| PSO-2 | Solve the complex problems in the field of Commerce with Computer Applications with an understanding of the societal, legal and cultural impact.  |
| PSO-3 | Demonstrate the acquired theoretical knowledge in practical classes like C++, Java Programming, Web Programming which facilitates to work in IT sector as domain analyst, developers, software testers, content designers for e-learning courses, animators, interactive designers and graphic designers. |
| PSO-4 | Form a part of member in a team with right attitude.  |

**Course Outcomes**

| <b>Course Title</b> | <b>Core<br/>FINANCIAL ACCOUNTING – I</b>  |
|---------------------|---|
| <b>Code</b>         | <b>18COC01</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Prepare Final accounts of a Sole trading concern.   |
| CO-2                | Identify the errors to rectify them and also reconcile bank and cash statements.  |
| CO-3                | Apply the various techniques while preparing Account Current, Average Due Date and to prepare accounts for Bills of Exchange. |
| CO-4                | Compile the accounting information for Consignment and Joint venture transactions.  |
| CO-5                | Prepare Royalty Account and Depreciation Account.   |

| <b>Course Title</b> | <b>Core<br/>COMPUTER PRACTICAL - I DESKTOP PUBLISHING</b>  |
|---------------------|--|
| <b>Code</b>         | <b>18COC02</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Evaluate different desktop publishing packages using standard criteria.  |
| CO-2                | Manage graphic elements.   |
| CO-3                | Create computer software curriculums of art design and art effects obtainable.   |
| CO-4                | Development and design various types of technical and non-technical publications, reports, diagrams, brochures, conference materials, posters and presentations. |

| <b>Course Title</b> | <b>Core<br/>FINANCIAL ACCOUNTING – II</b>                     |
|---------------------|---|
| <b>Code</b>         | <b>18COC04</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Prepare accounts for branches and departmental accounts.      |

|      |   |
|------|---|
| CO-2 | Apply the knowledge of accounting in business for Hire purchase business.                                   |
| CO-3 | Calculate the share of partners at the time of Admission and Retirement.                                    |
| CO-4 | Find out the deceased partner's share on death and prepare accounts while converting a firm into a company. |
| CO-5 | Prepare accounts on dissolution of a partnership firm.  |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>COMPUTER PRACTICAL – II - EXCEL &amp; TALLY</b>                              |
| <b>Code</b>         | <b>18COC05</b>   |
|                     | <b>On completion of the course, students would be able to</b>                            |
| CO-1                | Understand the features of Tally accounting software from the business perspective       |
| CO-2                | Develop formulas to simplify calculations  |
| CO-3                | Create future excel spreadsheets with ease and comfort.                                  |
| CO-4                | Employ scenario manager to conduct sensitivity analysis and solve the business problems. |
| CO-5                | Apply quantitative method for business decision making.                                  |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>PRACTICE WORKSHOP – I</b>                                  |
| <b>Code</b>         | <b>18COC06</b>   |
|                     | <b>On completion of the course, students would be able to</b>          |
| CO-1                | Apply the operating procedures for banking transactions                |
| CO-2                | Analyze and prepare feasibility report to obtain bank loan             |
| CO-3                | Identify and apply the knowledge for availing educational loan         |
| CO-4                | Apply to Register for SSI units, PAN card and prepare partnership deed |
| CO-5                | Prepare organization chart for a public limited company                |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>COST ACCOUNTING</b>   |
| <b>Code</b>         | <b>18COU08/18COC08/18COE08/18AFU08/18CRM08/18BPU08/18FTU08/<br/>18FSU08/18CBI08</b> |
|                     | <b>On completion of the course, students would be able to</b>                       |
| CO-1                | Apply the Costing Concepts.   |
| CO-2                | Identify Appropriate Methods to control the Material Wastage.                       |
| CO-3                | Apply Suitable Methods for calculating the wages for labourers.                     |
| CO-4                | Prepare Cost Report.  |
| CO-5                | Apply knowledge for preparing Reconciliation Statement.                             |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>INCOME TAX</b>  |
| <b>Code</b>         | <b>18COU09/18COC09/18COE09/18AFU09/18CRM09/18FTU09/18FSU09/<br/>18CBI09</b> |
|                     | <b>On completion of the course, students would be able to</b>               |
| CO-1                | Apply the concepts for determining the Residential Status of an Assessee.   |
| CO-2                | Calculate Income from Salary and House property.                            |
| CO-3                | Compute Income from Business and Capital Gains.                             |
| CO-4                | Compute the Gross Total Income of an Assessee.                              |
| CO-5                | Know the Procedures for Assessment.   |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>MANAGEMENT INFORMATION SYSTEM</b>  |
| <b>Code</b>         | <b>18COC10</b>   |
|                     | <b>On completion of the course, students would be able to</b>                          |
| CO-1                | Understand the Management Information Systems in detail.                               |
| CO-2                | Analyze and Synthesize various kinds of Information Systems.                           |
| CO-3                | Demonstrate an Understanding of Data Base Management System, DataStructure and Models. |
| CO-4                | Explore in detail on Activities in System Development Approaches.                      |
| CO-5                | Identify various methods to Protect the Information.                                   |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>FUNDAMENTALS OF C &amp; C++</b>  |
| <b>Code</b>         | <b>18COE11/18COC11</b>   |
|                     | <b>On completion of the course, students would be able to</b>                              |
| CO-1                | Explore the basic Structure of C-Programming, variable declaration and usage of variables. |
| CO-2                | Evaluate the principles of control structures and arrays.                                  |
| CO-3                | Build programs using Structure, Union and Pointers.  |
| CO-4                | Generate code using concepts of Object-Oriented Programming in C++.                        |
| CO-5                | Apply the knowledge of Polymorphism and Inheritance.                                       |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>COMPUTER PRACTICAL – III - C &amp; C++</b>                         |
| <b>Code</b>         | <b>18COE12/18COC12</b>   |
|                     | <b>On completion of the course, students would be able to</b>                  |
| CO-1                | Develop the ability to analyze a problem and develop an algorithm to solve it. |
| CO-2                | Write programs using Control structures.                                       |
| CO-3                | Create programs using classes and objects.                                     |
| CO-4                | Use the basic object-oriented design principles in computer problem solving.   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Interdisciplinary Course (IDC)<br/>BUSINESS ECONOMICS</b>                |
| <b>Code</b>         | <b>18COC13/18COE13/18AFU12/18CRM12/18FSU12/18FTU12/18BPU12/<br/>18CBI12</b> |
|                     | <b>On completion of the course, students would be able to</b>               |
| CO-1                | Identify and apply the concept of Economics in Business Decision Making.    |
| CO-2                | Forecast the Market Demand for the Product.                                 |
| CO-3                | Analyse the changes in Output due to changes in factors of Production.      |
| CO-4                | Estimate the Break-Even Point in Business.                                  |
| CO-5                | Determine the Equilibrium Point under Different Market Structures.          |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>CORPORATE ACCOUNTING – I</b>   |
| <b>Code</b>         | <b>18COU13/18COC14/18COE14/18AFU13/18CRM13/18BPU13/18FTU13<br/>18FSU13/18CBI13</b>               |
|                     | <b>On completion of the course, students would be able to</b>                                    |
| CO-1                | Recall the Accounting entries for Issue of Shares and Debentures in a Company.                   |
| CO-2                | Follow the Accounting Procedure for Redeeming Shares and Debentures.                             |
| CO-3                | Prepare Final Accounts as per the Provisions of the Companies Act.                               |
| CO-4                | Value the Shares and Goodwill of the Company and prepare Accounts in the Process of Liquidation. |
| CO-5                | Apply the knowledge of Accounting with respect to Electricity Companies.                         |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>BUSINESS LAW</b>                                  |
| <b>Code</b>         | <b>18COE15/18COC15</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Recall the basic concept of Laws.                             |
| CO-2                | Apply the knowledge about the Laws relating to Agreement.     |
| CO-3                | Demonstrate the concept relating to Bailment and Pledge.      |
| CO-4                | Apply the knowledge gained in the Sale of Goods.              |
| CO-5                | Perceive the knowledge about the Rights of Consumers.         |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>MARKETING</b>   |
| <b>Code</b>         | <b>18COU15/18COC16/18COE16</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Apply the Modern Marketing Concepts in the Business Scenario.   |
| CO-2                | Identify the suitable Marketing Mix for different Market Segments.                                    |
| CO-3                | Develop Strategies for Product Placement to face the competition.                                     |
| CO-4                | Apply the knowledge on Pricing in Business and evaluate the Distribution Strategies for the Business. |
| CO-5                | Identify the Promotional Techniques to compete in the Market.   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>JAVA PROGRAMMING</b>                                  |
| <b>Code</b>         | <b>18COE17/18COC17</b>  |
|                     | <b>On completion of the course, students would be able to</b>     |
| CO-1                | Apply the object oriented programming concepts.                   |
| CO-2                | Develop the structure and model of the Java Programming language. |
| CO-3                | Design Interfaces and Packages in Java.                           |
| CO-4                | Generate Multithreaded Programs in Java.                          |
| CO-5                | Write Graphics and Applet Programs.                               |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>COMPUTER PRACTICAL – IV – JAVA PROGRAMMING</b>                |
| <b>Code</b>         | <b>18COC18/18COE18</b>  |
|                     | <b>On completion of the course, students would be able to</b>             |
| CO-1                | Write programs using the fundamental concepts of Java.                    |
| CO-2                | Implement Object Oriented Programming concepts in Java.                   |
| CO-3                | Demonstrate Inheritance, Interfaces and Packages in Java.                 |
| CO-4                | Develop Multithreaded programs using thread class and runnable interface. |
| CO-5                | Design Basic shapes using Graphics class and display using Applet Viewer. |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>PRACTICE WORKSHOP – II</b>   |
| <b>Code</b>         | <b>18COU17/18COC19/18COE19/18AFU17/18CRM17/18BPU17/18FTU17<br/>18FSU17/18CBI17</b>                   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Prepare the Purchase Requisition, Tender Form and Comparative Statement of Quotations for a Company. |
| CO-2                | Apply knowledge on documents to be filed related to Exports and Imports.                             |
| CO-3                | Apply the procedure for opening the Demat Trading Account.   |
| CO-4                | Apply the filing procedures for Filing the Life and General Insurance Forms.                         |

|      |  |
|------|--|
| CO-5 | Identify and apply the ways of Online Purchasing and Online Money Transferring System. |
|------|--|

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Interdisciplinary Course (IDC)<br/>FUNDAMENTAL OF E-COMMERCE &amp; M-COMMERCE</b> |
| <b>Code</b>         | <b>18COU18/18COC20/18FSU18/18CBI18</b>   |
|                     | <b>On completion of the course, students would be able to</b>                        |
| CO-1                | Identify the e-Commerce Applications.  |
| CO-2                | Evaluate the Network Security System.  |
| CO-3                | Apply the interactive Marketing Process through Internet.                            |
| CO-4                | Operate in the platform of Mobile Commerce.  |
| CO-5                | Utilize the e-Technology Services.   |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>CORPORATE ACCOUNTING – II</b>  |
| <b>Code</b>         | <b>18COU19/18COC21/18COE21/18AFU19/18CRM19/18BPU19/18FTU19<br/>18FSU19/18CBI19</b> |
|                     | <b>On completion of the course, students would be able to</b>                      |
| CO-1                | Recall the Accounting entries for Amalgamation and Absorption of Companies.        |
| CO-2                | Make entries in the Books of Account at the time of Reconstruction of a Company.   |
| CO-3                | Prepare Final Accounts for Banking Companies.                                      |
| CO-4                | Prepare Insurance Company Accounts.  |
| CO-5                | Prepare Accounts for Holding and Subsidiary Companies.                             |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>BUSINESS COMMUNICATION</b>                            |
| <b>Code</b>         | <b>18COU20/18COC22/18CRM11/18FTU20/18FSU20/18CBI20</b>            |
|                     | <b>On completion of the course, students would be able to</b>     |
| CO-1                | Apply the Principles of Communication in Business Correspondence. |

|      |   |
|------|---|
| CO-2 | Draft Business Letters and understanding the Structure of Letter Writing. |
| CO-3 | Apply the various Methods of Internal Communication.                      |
| CO-4 | Use the various skills in External Communication.                         |
| CO-5 | Effectively use the various Channels of Communication.                    |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Discipline Specific Elective Course (Core Elective I)</b><br><b>E-BANKING AND INTERNET</b> |
| <b>Code</b>         | <b>18COC23 A</b>  |
|                     | <b>On completion of the course, students would be able to</b>                                 |
| CO-1                | Consume E- banking Services.  |
| CO-2                | Operate the mechanics of Internet Banking.  |
| CO-3                | Apply the necessary Safety Firewalls while using Mobile Banking.                              |
| CO-4                | Utilize the benefits of ATM's and to identify the Problems and Prospects.                     |
| CO-5                | Perform financial transaction using Electronic Fund Transfer System.                          |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Discipline Specific Elective Course (Core Elective - I)</b><br><b>MOBILE COMPUTING AND ITS APPLICATION</b> |
| <b>Code</b>         | <b>18COC23 B</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Learn Mobile Computing Devices and Functions.   |
| CO-2                | Access the Wireless LANs.   |
| CO-3                | Familiarize the Standards of Protocols.   |
| CO-4                | Learn the Channel Allocation in Cellular System.  |
| CO-5                | Utilize positioning techniques and location-based services in mobile.   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core</b><br><b>VISUAL BASIC .NET PROGRAMMING</b>           |
| <b>Code</b>         | <b>18COC24</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Learn the fundamentals of .Net Programming.                   |
| CO-2                | Illustrate standard control structures, arrays and functions. |

|      |  |
|------|--|
| CO-3 | Develop the knowledge of generic controls and build programs.  |
| CO-4 | Design and develop programs with GUI interfaces.               |
| CO-5 | Expose the concepts of database connectivity and web controls. |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>COMPUTER PRACTICAL – V – VISUAL BASIC .NET<br/>PROGRAMMING</b>           |
| <b>Code</b>         | <b>18COC25</b>   |
|                     | <b>On completion of the course, students would be able to</b>                        |
| CO-1                | Get aware about .Net platform.   |
| CO-2                | Design and create Windows programs using the Visual Basic .NET Programming Language. |
| CO-3                | Develop GUI programs using forms and controls.                                       |
| CO-4                | Create applications that use ADO. NET.   |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>MANAGEMENT ACCOUNTING</b>  |
| <b>Code</b>         | <b>18COU25/18COC27/18COE28/18AFU25/18CRM25/18BPU25/18FTU25<br/>18FSU25/18CBI25</b> |
|                     | <b>On completion of the course, students would be able to</b>                      |
| CO-1                | Install Management Accounting System in an Organization.                           |
| CO-2                | Utilize the Techniques of Financial Statement for Business Decisions.              |
| CO-3                | Prepare Funds Flow and Cash Flow Statements for Business.                          |
| CO-4                | Apply the different Techniques for Preparing of Financial Budgets.                 |
| CO-5                | Apply Marginal and Standard Costing techniques in various Business Situations.     |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Discipline Specific Elective Course (Core Elective – II)<br/>ENTERPRISE RESOURCE PLANNING</b> |
| <b>Code</b>         | <b>18COC28 A</b>   |
|                     | <b>On completion of the course, students would be able to</b>                                    |
| CO-1                | Demonstrate a good Understanding of the Scope of common Enterprise                               |

|      |  |
|------|--|
|      | Systems.   |
| CO-2 | Understand various ERP Technologies.   |
| CO-3 | Analyze a current Architecture and Perform an Effective ERP Implementation System and Articulate the challenges associated with ERP Systems. |
| CO-4 | Examine the Business Modules in ERP Packages such as Finance, Production, Human Resource, Material Management and Marketing Management.      |
| CO-5 | Explain SAP Applications in ERP Packages to Support Business Operations.   |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Discipline Specific Elective Course (Core Elective – II)<br/>E-BUSINESS MODELS AND PRACTICE</b> |
| <b>Code</b>         | <b>18COC28 B</b>   |
|                     | <b>On completion of the course, students would be able to</b>                                      |
| CO-1                | Develop an e-business model.   |
| CO-2                | Acquire an in-depth knowledge on e- market.  |
| CO-3                | Enhance knowledge on e-business Application and e-procurement.                                     |
| CO-4                | Learn about the impact of e-business on different fields.  |
| CO-5                | Launch an online business.   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>ENTREPRENEURIAL DEVELOPMENT</b>                     |
| <b>Code</b>         | <b>18COU29/18COC29/18CRM29/18BPU29/18FTU29/18FSU29/18CBI29</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Recall the qualities of an Entrepreneur.                        |
| CO-2                | Prepare the Feasibility Report for the business.                |
| CO-3                | Apply the Procedures for starting SSI.                          |
| CO-4                | Identify the Incentive Schemes.                                 |
| CO-5                | Utilize the Institutional Assistance for the business ventures. |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>PRIMARY AND SECONDARY MARKET</b> |
| <b>Code</b>         | <b>18COU28/18COC30</b>                       |

|      | <b>On completion of the course, students would be able to</b>               |
|------|---|
| CO-1 | Identify and analyze the various avenues of Investment.                     |
| CO-2 | Apply the knowledge of various Markets and Instrument in business scenario. |
| CO-3 | Apply the norms relating to Stock Exchange.                                 |
| CO-4 | Identify the functions of SEBI and rights of the Investors.                 |
| CO-5 | Analyze the Stock Market Index and Stock Exchange Trading.                  |

| <b>Course Title</b> | <b>Core<br/>WEB PROGRAMMING</b>                                   |
|---------------------|---|
| <b>Code</b>         | <b>18COE32/18COC31</b>  |
|                     | <b>On completion of the course, students would be able to</b>     |
| CO-1                | Explore the fundamental tags of HTML.                             |
| CO-2                | Create interactive web pages using HTML and CSS.                  |
| CO-3                | Develop programs using control structures and arrays in VBSCRIPT. |
| CO-4                | Design server side programs using JAVASCRIPT.                     |
| CO-5                | Write Form Validation code in JAVASCRIPT                          |

| <b>Course Title</b> | <b>Core<br/>COMPUTER PRACTICAL – VI – WEB PROGRAMMING</b>                              |
|---------------------|--|
| <b>Code</b>         | <b>18COE33/18COC32</b>   |
|                     | <b>On completion of the course, students would be able to</b>                          |
| CO-1                | Design web pages using HTML Programming.   |
| CO-2                | Develop programs using scripting languages to add interactive components to web pages. |
| CO-3                | Create style sheets to format the web pages.   |
| CO-4                | Build dynamic web pages using JavaScript and VBScript.                                 |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>PRACTICE WORKSHOP – III</b>  |
| <b>Code</b>         | <b>18COU30/18COC33/18COE34/18AFU30/18CRM30/18BPU30/18FTU30<br/>18FSU30/18CBI30</b> |
|                     | <b>On completion of the course, students would be able to</b>                      |
| CO-1                | Analyze and prepare the Annual Report, Agenda and Minutes of a Company             |
| CO-2                | File the IT returns for a University Professor / Teacher                           |
| CO-3                | Prepare the Curriculum Vitae.  |
| CO-4                | Prepare an Advertisement Copy of a product/ service.                               |
| CO-5                | Apply the knowledge for preparing Share Trading Report and the Business Plan.      |



Since 1947

# PSG College of Arts & Science Coimbatore – 641 014

## Programme: BCom Professional Accounting

### Programme Outcomes

|      | <b>On completion of the programme, the student will be able to</b>  |
|------|---|
| PO-1 | Become knowledgeable in the field of Commerce with Professional Accounting and apply the conceptual interpersonal managerial skills for decision making in a business enterprise. |
| PO-2 | Gain analytical skills in the areas of Accounting, Finance, Taxation Auditing and related Professional Courses.   |
| PO-3 | Understand and appreciate Professional Ethics, Community Living and Nation Building Initiatives.  |
| PO-4 | Exhibit Professional skills and knowledge for pursuing CA, ACS and other career oriented programmes like ACCA, CFA, CMA, MBA and related PG programmes.                           |
| PO-5 | Build competency to meet challenges for global employment.  |

### Programme Specific Outcomes

|       | <b>On completion of the programme, the student will be able</b>   |
|-------|---|
| PSO-1 | Apply the knowledge of Commerce in the Domain of Auditing.  |
| PSO-2 | Solve the complex problems in the field of Auditing with an understanding of the societal, legal and cultural impact.   |
| PSO-3 | Demonstrates the acquired professional knowledge and skills to pursue and complete CA Professional course offered by Institute of Chartered Accountants of India. |
| PSO-4 | Form a part of member in a team with right attitude.  |

### Course Outcomes

| Course Title | Core<br>ACCOUNTANCY – I  |
|--------------|--|
| Code         | 18PAU01  |
|              | <b>On completion of the course, students would be able to</b>                |
| CO-1         | Relate the concepts with financial accounting                                |
| CO-2         | Gain knowledge on Accounting Process and Bank Reconciliation Statement       |
| CO-3         | Account for Inventories and Depreciation.                                    |
| CO-4         | Develop an understanding on Average due date and Account current             |
| CO-5         | Understand Bills of Exchange, Accounting for Consignment and Joint Ventures. |

| Course Title | Core<br>BUSINESS ECONOMICS  |
|--------------|---|
| Code         | 18PAU02   |
|              | <b>On completion of the course, students would be able to</b>         |
| CO-1         | Summarize the basic economic concepts relating to business.           |
| CO-2         | Illustrate and apply theories of Business Economics.                  |
| CO-3         | Be familiar with the various cost concepts.                           |
| CO-4         | Gain knowledge on price determination in different market situations. |
| CO-5         | Grasp the role of different sectors in economic growth.               |

| Course Title | Core<br>BUSINESS COMMUNICATION                                |
|--------------|---|
| Code         | 18PAU03   |
|              | <b>On completion of the course, students would be able to</b> |
| CO-1         | Understand the basic concepts of communication and ethics.    |
| CO-2         | Translate comprehensive knowledge and note making.            |
| CO-3         | Acquaint with précis and article writing.                     |
| CO-4         | Design an effective Curriculum Vitae.                         |
| CO-5         | Develop business correspondence and reporting skills.         |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>ACCOUNTANY –II</b>   |
| <b>Code</b>         | <b>18PAU05</b>   |
|                     | <b>On completion of the course, students would be able to</b>                                |
| CO-1                | Prepare the Final Accounts of Sole Proprietorship.   |
| CO-2                | Analyze the Accounting treatment for Admission and Retirement of Partners.                   |
| CO-3                | Utilize the Accounting knowledge on Death of Partner and on Dissolution of partnership firm. |
| CO-4                | Build an ability to understand the method of Accounting for Not – for- Profit organizations. |
| CO-5                | Develop knowledge on Corporate Accounting.   |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>BUSINESS LAW</b>                                   |
| <b>Code</b>         | <b>18PAU06</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Understand the legal aspects of Indian Contract Act 1872.      |
| CO-2                | Develop knowledge on Sale of Goods Act 1930                    |
| CO-3                | Recollect the provisions of Indian Partnership Act 1932.       |
| CO-4                | Apply the knowledge of Limited Liability Partnership Act 2008. |
| CO-5                | Summarize the provisions of Companies Act 2013                 |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>BUSINESS AND COMMERCIAL KNOWLEDGE</b>              |
| <b>Code</b>         | <b>18PAU07</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Apply the knowledge in the real business world.                |
| CO-2                | Analyze the business environment.                              |
| CO-3                | Familiarize with the Government policies for business.         |
| CO-4                | Understand the role of financial institutions in the business. |

|      |   |
|------|---|
| CO-5 | Improve the knowledge in the commercial and business terminology. |
|------|---|

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>ACCOUNTANCY – III</b>  |
| <b>Code</b>         | <b>18PAU09</b>   |
|                     | <b>On completion of the course, students would be able to</b>                          |
| CO-1                | Apply the Knowledge on Accounting Standards on Preparation of Company Accounts         |
| CO-2                | Gain Acquaintances on Redemption of Shares and Debentures & Final Accounts of Company. |
| CO-3                | Outline Awareness on Dissolution of Partnership.                                       |
| CO-4                | Acquires Capability in Accounting for Special Transactions.                            |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>COST &amp; MANAGEMENT ACCOUNTING - I</b>                                  |
| <b>Code</b>         | <b>18PAU10</b>  |
|                     | <b>On completion of the course, students would be able to</b>                         |
| CO-1                | Infer the knowledge for preparation of cost sheet.                                    |
| CO-2                | Make use of stock levels for effective Inventory Management.                          |
| CO-3                | Contrast the Employee Cost and Direct Expenses  |
| CO-4                | Apply the Knowledge on Absorption and Allocation of Overhead for Functional Analysis. |
| CO-5                | Practice the Application of Various Costing System.                                   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>DIRECT TAX</b>  |
| <b>Code</b>         | <b>18PAU11</b>  |
|                     | <b>On completion of the course, students would be able to</b>                             |
| CO-1                | Infer the knowledge on calculation of residential status of an assessee.                  |
| CO-2                | Analyze the taxation procedures and formalities of Income from Salary and House Property. |

|      |   |
|------|---|
| CO-3 | Utilize the taxation acquaintance on Profits and Gains of Business and Profession.        |
| CO-4 | Build a capability to comprehend the Capital Gains and Income from Other Sources          |
| CO-5 | Develop an understanding in calculations of Total Income & Provisions for Filing Returns. |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>FINANCIAL MANAGEMENT</b>  |
| <b>Code</b>         | <b>18PAU12</b>  |
|                     | <b>On completion of the course, students would be able to</b>                   |
| CO-1                | Apply the learnt concepts to analyze the Financial Statements of a Business.    |
| CO-2                | Analyze the earnings of Shareholders with various Capital Structure Theories.   |
| CO-3                | Appraise the Investment Proposals with techniques of Capital Budgeting.         |
| CO-4                | Make use of the Sources of Funds to finance the business in Short and Long run. |
| CO-5                | Make use of the Dividend Policy Models to analyze the Value of the Firm.        |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>CORPORATE &amp; OTHER LAWS</b>  |
| <b>Code</b>         | <b>18PAU13</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Relate the fundamental provisions of Company Law.   |
| CO-2                | Familiarize with the registration process related to Shares and Debentures.                               |
| CO-3                | Acquaint with the powers and duties of Auditors for effective Management and Administration of Companies. |
| CO-4                | Develop an understanding on Negotiable Instrument Act and its Provisions.                                 |
| CO-5                | Make use of the clauses and rules of Interpretation   |

|                     |                                  |
|---------------------|----------------------------------|
| <b>Course Title</b> | <b>Core<br/>ACCOUNTANCY – IV</b> |
| <b>Code</b>         | <b>18PAU14</b>                   |

|      | <b>On completion of the course, students would be able to</b>                        |
|------|--|
| CO-1 | Summarize the special types of Accounting for preparation of Departmental Accounting |
| CO-2 | Familiarize the specific Accounting Standards.                                       |
| CO-3 | Acquire familiarity on special aspects of Company Accounts.                          |
| CO-4 | Summarize the Accounting treatment of Reorganization of Companies.                   |

| <b>Course Title</b> | <b>Core<br/>AUDITING – I</b>   |
|---------------------|--|
| <b>Code</b>         | <b>18PAU15</b>   |
|                     | <b>On completion of the course, students would be able to</b>                                |
| CO-1                | Relate Auditing with other Disciplines.  |
| CO-2                | Recognize Assurance Standard Setting Process.  |
| CO-3                | Familiarize with Audit planning, Audit programme and Audit Documentation                     |
| CO-4                | Determine Risk Assessment and Internal Control for Evaluation.                               |
| CO-5                | Infer knowledge on Audit in an Automated Environment for Investigating analytical procedures |

| <b>Course Title</b> | <b>Core<br/>COST &amp; MANAGEMENT ACCOUNTING - II</b>                          |
|---------------------|--|
| <b>Code</b>         | <b>18PAU16</b>   |
|                     | <b>On completion of the course, students would be able to</b>                  |
| CO-1                | Familiarize with the process costs Apportionment of Joint and By-Products.     |
| CO-2                | Develop an understanding for determining cost of various Service Organizations |
| CO-3                | Apply the knowledge of Standard Costing Techniques to compare with actuals.    |
| CO-4                | Make use of Marginal Costing Techniques for decision making.                   |
| CO-5                | Practice the application of Budget and Budgetary Control.                      |

| <b>Course Title</b> | <b>Core<br/>INDIRECT TAXES</b> |
|---------------------|--------------------------------|
|---------------------|--------------------------------|

|             |   |
|-------------|---|
| <b>Code</b> | <b>18PAU17</b>  |
|             | <b>On completion of the course, students would be able to</b>   |
| CO-1        | Understand the significance of Indirect tax.                    |
| CO-2        | Effectively define the need for GST.                            |
| CO-3        | Gain knowledge about supply of goods in GST and its valuation.  |
| CO-4        | Perceive knowledge about Input Tax Credit, Returns and Refunds. |
| CO-5        | Apply knowledge on Customs Duty, Import & Export procedure.     |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Interdisciplinary Course (IDC)<br/>ENTERPRISE INFORMATION SYSTEMS</b>       |
| <b>Code</b>         | <b>18PAU18</b>   |
|                     | <b>On completion of the course, students would be able to</b>                  |
| CO-1                | Summarize the Automated Business Processes and its Regulatory Compliance.      |
| CO-2                | Illustrate the Financial Accounting and Reporting System.                      |
| CO-3                | Be Proverbial through the Information System and its Mechanism.                |
| CO-4                | Gain acquaintance on E-Commerce, M-Commerce and Budding technologies.          |
| CO-5                | Grasp the functions of Technology in Core Banking System and its Applications. |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>ACCOUNTANCY – V</b>  |
| <b>Code</b>         | <b>18PAU19</b>   |
|                     | <b>On completion of the course, students would be able to</b>                            |
| CO-1                | Employ the knowledge on Accounting for Insurance Companies for valuation with guidelines |
| CO-2                | Use intellectual capacity on Accounting for Banking Companies.                           |
| CO-3                | Summarize the Evaluation Methodology of Mutual Funds.                                    |
| CO-4                | Infer consciousness on Valuation of Goodwill and Shares.                                 |
| CO-5                | Familiarize with the procedure for consolidation of Holding Company Accounts.            |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>AUDITING – II</b>   |
| <b>Code</b>         | <b>18PAU20</b>  |
|                     | <b>On completion of the course, students would be able to</b>             |
| CO-1                | Relate the auditing procedures in the practical scenario.                 |
| CO-2                | Make use of the Knowledge for Audit of Payments and Receipts.             |
| CO-3                | Analyze Company Audit as per the Companies Act, 2013.                     |
| CO-4                | Summarize the knowledge on Audit Report with regard to FinancialStatement |
| CO-5                | Evaluate the audit of different Types of Entities.                        |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Discipline Specific Elective Course (Core Elective)<br/>FINANCIAL SERVICES</b>                 |
| <b>Code</b>         | <b>18PAU21 A</b>  |
|                     | <b>On completion of the course, students would be able to</b>                                     |
| CO-1                | Outline the Financial Services and its growth in the emerging scenario.                           |
| CO-2                | Make a use of various Financial Services.   |
| CO-3                | Familiarize with the obligations and responsibilities of Merchant Bankers and Factoring Services. |
| CO-4                | Acquaint with the Credit Rating Agencies in India and its rating.                                 |
| CO-5                | Appraise the procedures of Investment Decisions as per the norms of SEBI.                         |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Discipline Specific Elective Course (Core Elective)<br/>FINANCIAL MARKETS</b>    |
| <b>Code</b>         | <b>18PAU21B</b>   |
|                     | <b>On completion of the course, students would be able to</b>                       |
| CO-1                | Relate the Domestic Financial Market with the Global Financial Market               |
| CO-2                | Compile the policies of Economy for the upliftment of Individual and the Corporate. |
| CO-3                | Make use of knowledge in Capital Market Operations.                                 |
| CO-4                | Outline the CRR and SLR Rates of RBI and its norms.                                 |
| CO-5                | Acquaint with RBI and its Basel Norms for the effective Financial Market Operations |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>PERFORMANCE MANAGEMENT</b>   |
| <b>Code</b>         | <b>18PAU22</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Apply modern Costing Techniques for Performance Management.  |
| CO-2                | Select and apply appropriate Decision making techniques for management of performance.                   |
| CO-3                | Identify and apply appropriate Budgeting Techniques and Methods for Planning and Control.                |
| CO-4                | Identify and discuss suitable Management Information System and various Management Reporting Procedures. |
| CO-5                | Develop an ability to assess and control the financial performance.                                      |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>FINANCIAL REPORTING</b>  |
| <b>Code</b>         | <b>18PAU23</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Apply latest Financial Reporting Standards.  |
| CO-2                | Prepare various Forms of Reporting.  |
| CO-3                | Communicate High Quality Financial Reporting and the practice of Ethical Values in the Accounting Profession |
| CO-4                | Apply Principles and Elements of Integrated Reporting.   |
| CO-5                | Demonstrate knowledge of current concepts and techniques in Financial Reporting.                             |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Discipline Specific Elective -II<br/>STRATEGIC MANAGEMENT</b> |
| <b>Code</b>         | <b>18PAU24 A</b>   |
|                     | <b>On completion of the course, students would be able to</b>    |
| CO-1                | Understand the consciousness of Strategic Management             |

|      |   |
|------|---|
| CO-2 | Analyze the essentials of Competitive Strategy.                             |
| CO-3 | Familiarize with the Strategic Management Process and Corporate Strategies. |
| CO-4 | Understand the diverse intensity of Business Strategies.                    |
| CO-5 | Improve the comprehension in Strategy Implementation and Control.           |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Discipline Specific Elective - II<br/>HUMAN RESOURCE MANAGEMENT</b>    |
| <b>Code</b>         | <b>18PAU24B</b>   |
|                     | <b>On completion of the course, students would be able to</b>             |
| CO-1                | Relate the fundamentals of Human Resource Management.                     |
| CO-2                | Develop knowledge on Human Resource Planning and Job Analysis.            |
| CO-3                | Ability to build career planning and development.                         |
| CO-4                | Apply the Knowledge on Managing Performance and building Human Relations. |
| CO-5                | Practice the Application of maintaining and retaining Human Resources.    |



Since 1947

## PSG College of Arts & Science Coimbatore – 641 014

### Programme: BCom Accounting & Finance

#### Programme Outcomes

|      | On completion of the programme, the student will be able to   |
|------|---|
| PO-1 | Become knowledgeable in the field of commerce blended with Accounting and Finance and apply the conceptual interpersonal managerial skills for decision making in a business enterprises.   |
| PO-2 | Gain Analytical skills in the area of Accounting and Finance by offering courses like Financial Accounting, Corporate Accounting, Cost and Management Accounting, Financial Management, Investment Management and Direct and Indirect Taxation. |
| PO-3 | Understand and appreciate Professional Ethics, Community Living and Nation Building initiatives.  |
| PO-4 | Exhibit Professional knowledge and skills in the field of Accounting and Finance for pursuing CA, CMA, CS and other competing programmes like ACCA, CFA and related PG courses.   |
| PO-5 | Build competency to manage the business and leadership challenges   |

#### Programme Specific Outcomes

|       | On completion of the programme, the student will be able   |
|-------|--|
| PSO-1 | Apply the knowledge of Commerce in the domain of Accounting and Finance.   |
| PSO-2 | Solve the complex problems in the field of Accounting and Finance with an understanding of the societal, legal and cultural impact.  |
| PSO-3 | Demonstrate the acquired theoretical knowledge in practical classes like Practice workshop and Computer practical (TALLY) which facilitates to work in the Accounting platforms. |
| PSO-4 | Form a part of member in a team with right attitudes   |

#### Course Outcomes

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>FINANCIAL ACCOUNTING - I</b>   |
| <b>Code</b>         | <b>18AFU01</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Prepare Final accounts of a Sole trading concern.  |
| CO-2                | Identify the errors to rectify them and also reconcile bank and cash statements..  |
| CO-3                | Apply the various techniques while preparing Account Current, Average duedate and to prepare accounts for bills of exchange. |
| CO-4                | Compile the accounting information for Consignment and Joint venture transactions  |
| CO-5                | Prepare royalty account and depreciation account   |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>PRINCIPLES OF MANAGEMENT</b>   |
| <b>Code</b>         | <b>18AFU02</b>   |
|                     | <b>On completion of the course, students would be able to</b>                          |
| CO-1                | Exhibit the management concepts and their application in the global business scenario. |
| CO-2                | Apply the knowledge of planning in an organization which helps in decision making.     |
| CO-3                | Remember the organization structure for a business concern                             |
| CO-4                | Develop the interpersonal managerial skills to excel as a good leader.                 |
| CO-5                | Identify the deviations from the standards to motivate the work force.                 |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>FINANCIAL ACCOUNTING - II</b>  |
| <b>Code</b>         | <b>18AFU04</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Prepare accounts for branches and departmental accounts.   |
| CO-2                | Apply the knowledge of accounting in business for Hire purchase business                                   |
| CO-3                | Calculate the share of partners at the time of Admission and Retirement                                    |
| CO-4                | Find out the deceased partner's share on death and prepare accounts while converting a firm into a company |
| CO-5                | Prepare accounts on dissolution of a partnership firm.   |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>ACCOUNTING STANDARDS</b>   |
| <b>Code</b>         | <b>18AFU05 / 19AFU05</b>   |
|                     | <b>On completion of the course, students would be able to</b>                              |
| CO-1                | Discuss the Role of various Regulatory Boards in formulation of Accounting Standards.      |
| CO-2                | Select the appropriate Accounting Policies for Business Entities within the ambit of AS 1. |
| CO-3                | Apply the various techniques of Inventories Valuation and Cost Formula as per AS 2.        |
| CO-4                | Determine the Methods of Revenue Recognitions as per AS 9.                                 |
| CO-5                | Measure the capitalized cost of Property, Plant and Equipment as per AS10.                 |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>PRACTICE WORKSHOP-I</b>                                    |
| <b>Code</b>         | <b>18AFU06</b>   |
|                     | <b>On completion of the course, students would be able to</b>          |
| CO-1                | Apply the operating procedures for banking transactions                |
| CO-2                | Analyze and prepare feasibility report to obtain bank loan             |
| CO-3                | Identify and apply the knowledge for availing educational loan         |
| CO-4                | Apply to Register for SSI units, PAN card and prepare partnership deed |

|      |   |
|------|---|
| CO-5 | Prepare organization chart for a public limited company |
|------|---|

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>COST ACCOUNTING</b>   |
| <b>Code</b>         | <b>18COU08/18COC08/18COE08/18AFU08/18CRM08/18BPU08/18FTU08/<br/>18FSU08/18CBI08</b> |
|                     | <b>On completion of the course, students would be able to</b>                       |
| CO-1                | Apply the Costing Concepts.   |
| CO-2                | Identify Appropriate Methods to control the Material Wastage..                      |
| CO-3                | Apply Suitable Methods for calculating the wages for labourers.                     |
| CO-4                | Prepare Cost Report.  |
| CO-5                | Apply knowledge for preparing Reconciliation Statement                              |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>INCOME TAX</b>  |
| <b>Code</b>         | <b>18COU09/18COC09/18COE09/18AFU09/18CRM09/18FTU09/18FSU09/<br/>18CBI09</b> |
|                     | <b>On completion of the course, students would be able to</b>               |
| CO-1                | Apply the concepts for determining the Residential Status of an Assessee    |
| CO-2                | Calculate Income from Salary and House property.                            |
| CO-3                | Compute Income from Business and Capital Gains.                             |
| CO-4                | Compute the Gross Total Income of an Assessee                               |
| CO-5                | Know the Procedures for Assessment.   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>COMPUTER PRACTICAL I - BUSINESS DATA PROCESSING</b>                 |
| <b>Code</b>         | <b>18COU10/18AFU10/18CRM10/18BPU10/18FTU10/18FSU10/18CBI10</b>                  |
|                     | <b>On completion of the course, students would be able to</b>                   |
| CO-1                | Draft Business letters, using features of MS Word.                              |
| CO-2                | Compute various application of business using MS Excel for Managerial decisions |

|      |   |
|------|---|
| CO-3 | Develop Effective Business presentation using Power point |
| CO-4 | Administer DBMS effectively.                              |
| CO-5 | Apply the SPSS packages for Data Analysis                 |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>COMPANY LAW</b>  |
| <b>Code</b>         | <b>18COU11/18AFU11/18BPU11/18FTU11/18FSU11/18CBI11</b>               |
|                     | <b>On completion of the course, students would be able to</b>        |
| CO-1                | Follow the Procedures to form a Company type of Organization         |
| CO-2                | Understand the Documents to be prepared for Incorporating a Company. |
| CO-3                | Apprehend the Procedure to be followed in Issue of Share             |
| CO-4                | Manage the Company Affairs   |
| CO-5                | Conduct Meetings and write Minutes.                                  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>BUSINESS ECONOMICS</b>  |
| <b>Code</b>         | <b>18COC13/18COE13/18AFU12/18CRM12/18FSU12/18FTU12/18BPU12/<br/>18CBI12</b> |
|                     | <b>On completion of the course, students would be able to</b>               |
| CO-1                | Identify and apply the concept of Economics in Business Decision Making.    |
| CO-2                | Forecast the Market Demand for the Product.                                 |
| CO-3                | Analyse the changes in Output due to changes in factors of Production       |
| CO-4                | Estimate the Break-Even Point in Business.                                  |
| CO-5                | Determine the Equilibrium Point under Different Market Structures.          |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>CORPORATE ACCOUNTING - 1</b>   |
| <b>Code</b>         | <b>18COU13/18COC14/18COE14/18AFU13/18CRM13/18BPU13/18FTU13<br/>18FSU13/18CBI13</b> |

|      | <b>On completion of the course, students would be able to</b>                                   |
|------|---|
| CO-1 | Recall the Accounting entries for Issue of Shares and Debentures in a Company                   |
| CO-2 | Follow the Accounting Procedure for Redeeming Shares and Debentures.                            |
| CO-3 | Prepare Final Accounts as per the Provisions of the Companies Act.                              |
| CO-4 | Value the Shares and Goodwill of the Company and prepare Accounts in the Process of Liquidation |
| CO-5 | Apply the knowledge of Accounting with respect to Electricity Companies.                        |

| <b>Course Title</b> | <b>Core<br/>BUSINESS LAW</b>                                  |
|---------------------|---|
| <b>Code</b>         | <b>18COU14 /18AFU14/18CRM14/18FSU14</b>                       |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Recall the basic concept of Laws.                             |
| CO-2                | Apply the knowledge about the Laws relating to Agreement.     |
| CO-3                | Demonstrate the concept relating to Bailment and Pledge.      |
| CO-4                | Apply the knowledge gained in the Sale of Goods.              |
| CO-5                | Perceive the knowledge about the Rights of Consumers.         |

| <b>Course Title</b> | <b>Core<br/>FINANCIAL SERVICES</b>  |
|---------------------|---|
| <b>Code</b>         | <b>18AFU15</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Identify the various financial products and services.   |
| CO-2                | Adapt the merchant banking functions on Issue Management and Factoring Services   |
| CO-3                | Evaluate the various stages of fund raising through Venture Capital Institutions for commercially viable project proposals. |
| CO-4                | Justify the Securitization process and Ranking of Credit Rating Agencies  |
| CO-5                | Build the knowledge on Underwriting and Financial Services  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>INDIRECT TAXATION</b>                             |
| <b>Code</b>         | <b>18COU16/18AFU16/18CRM16/18FTU16/18FSU16</b>                |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Recall the constitutional background of Taxes.                |
| CO-2                | Operate in the GST Platform.                                  |
| CO-3                | Identify Exempted Supply and calculate the Value of Supply.   |
| CO-4                | Prepare Input Tax Credit Returns                              |
| CO-5                | Apply knowledge on Customs Duty, Import & Export Procedure.   |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>PRACTICE WORKSHOP – II</b>   |
| <b>Code</b>         | <b>18COU17/18COC19/18COE19/18AFU17/18CRM17/18BPU17/18FTU17<br/>18FSU17/18CBI17</b>                   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Prepare the Purchase Requisition, Tender Form and Comparative Statement of Quotations for a Company. |
| CO-2                | Apply knowledge on documents to be filed related to Exports and Imports.                             |
| CO-3                | Apply the procedure for opening the Demat Trading Account  |
| CO-4                | Apply the filing procedures for Filing the Life and General Insurance Forms.                         |
| CO-5                | Identify and apply the ways of Online Purchasing and Online Money Transferring System                |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>ESSENTIALS OF BUSINESS COMMUNICATION</b>                     |
| <b>Code</b>         | <b>18AFU18</b>   |
|                     | <b>On completion of the course, students would be able to</b>            |
| CO-1                | Apply the principles of Communication in business correspondence.        |
| CO-2                | Draft business letters and understanding the structure of Letter Writing |
| CO-3                | Apply the various methods of internal communication.                     |
| CO-4                | Use the various skills in external communication.                        |

|      |  |
|------|--|
| CO-5 | Effectively use the various channels of communication. |
|------|--|

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>CORPORATE ACCOUNTING – II</b>   |
| <b>Code</b>         | <b>18COU19/18COC21/18COE21/18AFU19/18CRM19/18BPU19/18FTU19/<br/>18FSU19/18CBI19</b> |
|                     | <b>On completion of the course, students would be able to</b>                       |
| CO-1                | Recall the Accounting entries for Amalgamation and Absorption of Companies.         |
| CO-2                | Make entries in the Books of Account at the time of Reconstruction of a Company.    |
| CO-3                | Prepare Final Accounts for Banking Companies.                                       |
| CO-4                | Prepare Insurance Company Accounts.   |
| CO-5                | Prepare Accounts for Holding and Subsidiary Companies                               |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>FINANCIAL MARKETS AND REGULATIONS</b>  |
| <b>Code</b>         | <b>18AFU20</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Classify the different segments of Financial Markets.  |
| CO-2                | Identify the various Money Market Instruments issued by Companies, Commercial Banks and RBI          |
| CO-3                | Select various combinations of instruments in Capital Market for Financing and Investment decisions. |
| CO-4                | Develop the knowledge in the operations of Securities Market.  |
| CO-5                | Recall the mechanics and regulatory aspects of SEBI.   |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Discipline Specific Elective – I<br/>FINANCIAL MANAGEMENT</b>       |
| <b>Code</b>         | <b>18COU21A/18COE25/18AFU21A/18CRM22/18FSU21A</b>                      |
|                     | <b>On completion of the course, students would be able to</b>          |
| CO-1                | Apply the concepts in various Functional areas of Financial Management |

|      |   |
|------|---|
| CO-2 | Evaluate the Investment opportunities in Business.  |
| CO-3 | Compute the overall Cost of Capital of the Company. |
| CO-4 | Develop optimum Capital Structure.                  |
| CO-5 | Estimate Working Capital requirements of a Firm.    |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Discipline Specific Elective – I<br/>WORKING CAPITAL MANAGEMENT</b>               |
| <b>Code</b>         | <b>18COU21B/18AFU21B/18FSU21B</b>  |
|                     | <b>On completion of the course, students would be able to</b>                        |
| CO-1                | Forecast Working Capital Management Requirements of a Firm.                          |
| CO-2                | Utilize the Working Capital Financing Mix effectively.                               |
| CO-3                | Manage the Receivables effectively.  |
| CO-4                | Apply Cash and Inventory Management Tools for optimum Cash and Inventory Management. |
| CO-5                | Assess the Working Capital Finance   |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>BANKING AND FINANCIAL INSTITUTION</b>  |
| <b>Code</b>         | <b>18AFU22</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Identify the scope of Banking System in Indian Context   |
| CO-2                | Interpret the attributes of different types of Negotiable Instruments and their implications in banking transactions |
| CO-3                | Evaluate the facets of loans and advances and practical difficulties in fund raising.                                |
| CO-4                | Apply the various modes of Electronic Fund Transfer System in day to day banking transactions                        |
| CO-5                | Identify an appropriate Financial Institution for starting own venture.  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>COMPUTER PRACTICAL - II<br/>COMPUTERIZED ACCOUNTING (TALLY)</b> |
|---------------------|---|

|             |   |
|-------------|---|
| <b>Code</b> | <b>18COU23/18AFU23/18CRM23/18BPU23/18FTU23/18FSU23/18CBI23</b>          |
|             | <b>On completion of the course, students would be able to</b>           |
| CO-1        | Create company using various features of Tally.                         |
| CO-2        | Prepare Statement of Trading/Profit and loss Account and Balance Sheet. |
| CO-3        | Prepare Inventory Report and Stock summary.                             |
| CO-4        | Prepare Bank Reconciliation Statement.                                  |
| CO-5        | Compute the GST for Business Transactions                               |

|               |  |
|---------------|--|
| <b>Course</b> | <b>Core</b>  |
| <b>Title</b>  | <b>MANAGEMENT ACCOUNTING</b>   |
| <b>Code</b>   | <b>18COU25/18COC27/18COE28/18AFU25/18CRM25/18BPU25/18FTU25<br/>18FSU25/18CBI25</b> |
|               | <b>On completion of the course, students would be able to</b>                      |
| CO-1          | Install Management Accounting System in an Organization                            |
| CO-2          | Utilize the Techniques of Financial Statement for Business Decisions.              |
| CO-3          | Prepare Funds Flow and Cash Flow Statements for Business.                          |
| CO-4          | Apply the different Techniques for Preparing of Financial Budgets.                 |
| CO-5          | Apply Marginal and Standard Costing techniques in various Business Situations.     |

|               |  |
|---------------|--|
| <b>Course</b> | <b>Discipline Specific Elective – II</b>   |
| <b>Title</b>  | <b>SECURITY ANALYSIS AND PORTFOLIO MANAGEMENT</b>  |
| <b>Code</b>   | <b>18AFU26A</b>  |
|               | <b>On completion of the course, students would be able to</b>  |
| CO-1          | Summarize the various theoretical concepts and techniques of Portfolio Management and Risk aspects.          |
| CO-2          | Analyze the theoretical perspectives and practical aspects of Fundamental Analysis for investment decisions. |
| CO-3          | Predict the share price movements with the help of various tools used in Technical Analysis.                 |
| CO-4          | Select and construct Optimal Portfolio using Capital Market Theories   |
| CO-5          | Evaluate the investment decisions using tools such-as Formula Plans and Differential Return.                 |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Discipline Specific Elective – II<br/>FINANCIAL ANALYSIS AND BUSINESS<br/>VALUATION</b> |
| <b>Code</b>         | <b>18AFU26B</b>  |
|                     | <b>On completion of the course, students would be able to</b>                              |
| CO-1                | Apply the theoretical knowledge of Financial Statement Analysis.                           |
| CO-2                | Make Use of the Discounted Cash flow Techniques of Valuation.                              |
| CO-3                | Recommend the Valuation Approaches in case of Merger.                                      |
| CO-4                | Select the appropriate Valuation Model in case of Acquisition.                             |
| CO-5                | Determine the techniques for Valuation of Assets and Liabilities.                          |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>AUDITING</b>   |
| <b>Code</b>         | <b>18COU27/18AFU27/18BPU27/18FSU27</b>                                       |
|                     | <b>On completion of the course, students would be able to</b>                |
| CO-1                | Identify the different types for Audit.                                      |
| CO-2                | Apply the techniques of Internal check.                                      |
| CO-3                | Identify the Powers and Responsibilities of an Auditor.                      |
| CO-4                | Recollect the Provisions for conducting Company Audit and Specialized Audit. |
| CO-5                | Apply the Provisions related to Depreciation and Reserves                    |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>PERSONAL INVESTMENT MANAGEMENT</b>                         |
| <b>Code</b>         | <b>18AFU28</b>   |
|                     | <b>On completion of the course, students would be able to</b>          |
| CO-1                | Identify the various sources of investment and risk associated thereon |
| CO-2                | Evaluate the benefits of investing in risk free investment products    |
| CO-3                | Analyze and invest in Various Corporate Securities.                    |
| CO-4                | Examine the different aspects of commodity investments                 |
| CO-5                | Select the various tax saving options for efficient tax management     |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>FINANCIAL DERIVATIVES</b>   |
| <b>Code</b>         | <b>18AFU29</b>  |
|                     | <b>On completion of the course, students would be able to</b>                 |
| CO-1                | Apply the theoretical knowledge on trading of derivative securities in India. |
| CO-2                | Examine the Trading Techniques and Risk aspects of Forward Contracts.         |
| CO-3                | Determine the Trading Position based on prices prevailing in Futures Market.  |
| CO-4                | Apply the nitty-gritty of Options Contracts in real time market.              |
| CO-5                | Evaluate the attributes of various Swap instruments                           |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>PRACTICE WORKSHOP – III</b>  |
| <b>Code</b>         | <b>18COU30/18COC33/18COE34/18AFU30/18CRM30/18BPU30/18FTU30<br/>18FSU30/18CBI30</b> |
|                     | <b>On completion of the course, students would be able to</b>                      |
| CO-1                | Analyze and prepare the Annual Report, Agenda and Minutes of a Company             |
| CO-2                | File the IT returns for a University Professor / Teacher                           |
| CO-3                | Prepare the Curriculum Vitae.  |
| CO-4                | Prepare an Advertisement Copy of a product/ service.                               |
| CO-5                | Apply the knowledge for preparing Share Trading Report and the Business Plan       |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>ACCOUNTING AND FINANCIAL MANAGEMENT</b>  |
| <b>Code</b>         | <b>20SSP26</b>  |
|                     | <b>On completion of the course, students would be able to</b>                                       |
| CO-1                | Apply the various Accounting Concepts and prepare Financial Statements.                             |
| CO-2                | Identify various Costs and Calculate Cost Per Unit through Preparation of Cost Sheet.               |
| CO-3                | Discuss Financial Management Concepts and Predict Time Value of Money in major Financial Decisions. |
| CO-4                | Evaluate the Financial Statements using Ratio Analysis.   |
| CO-5                | Select the appropriate Project Proposal through Capital Budgeting Techniques.                       |



Since 1947

# PSG College of Arts & Science Coimbatore – 641 014

## Programme: BCom Retail Marketing

### Programme Outcomes

|      | On completion of the programme, the student will be able to  |
|------|--|
| PO-1 | Become knowledgeable in the field of Commerce blended with Retail Marketing and apply the conceptual, interpersonal and managerial skills for decision making in a business enterprise.  |
| PO-2 | Gain analytical skills in the areas of Accounting, Finance, Taxation and related Retail Marketing courses.   |
| PO-3 | Understand and appreciate Professional Ethics, Community Living and Nation Building initiatives.   |
| PO-4 | Exhibit skills and knowledge for pursuing higher studies on Retail Marketing, Logistics and Supply Chain Management, Human Resource Management, and preparing students for the careers like Retail Merchandiser, In-store specialist, Project Manager, Visual Merchandiser, Market Training Manager, Field Account Representative and Store Manager. |
| PO-5 | Build competency to manage business and leadership challenges.   |

### Programme Specific Outcomes

|       | On completion of the programme, the student will be able  |
|-------|---|
| PSO-1 | Apply the knowledge of Commerce in the domain of Retail Marketing in the global business environment.                                       |
| PSO-2 | Solve the complex problems in the field of Commerce with Retail Marketing with an understanding of the societal, legal and cultural impact. |
| PSO-3 | Demonstrate the acquired theoretical knowledge in retail segments.  |
| PSO-4 | Form a part of member in a team with right attitudes.   |

### Course Outcomes

| Course Title | Core<br>FINANCIAL ACCOUNTING-I  |
|--------------|---|
| <b>Code</b>  | <b>18CRM01</b>  |
|              | <b>On completion of the course, students would be able to</b>   |
| CO-1         | Prepare Final accounts of a Sole trading concern.   |
| CO-2         | Identify the errors to rectify them and also reconcile bank and cash statements.  |
| CO-3         | Apply the various techniques while preparing Account Current, Average due date and to prepare accounts for bills of exchange. |
| CO-4         | Compile the accounting information for Consignment and Joint venture transactions.  |
| CO-5         | Prepare royalty account and depreciation account.   |

| Course Title | Core<br>PRINCIPLES OF MANAGEMENT   |
|--------------|--|
| <b>Code</b>  | <b>18CRM02</b>   |
|              | <b>On completion of the course, students would be able to</b>                          |
| CO-1         | Exhibit the management concepts and their application in the global business scenario. |
| CO-2         | Apply the knowledge of planning in an organization which helps in decisionmaking       |
| CO-3         | Remember the organization structure for a business concern.                            |
| CO-4         | Develop the interpersonal managerial skills to excel as a good leader.                 |
| CO-5         | Identify the deviations from the standards to motivate the work force.                 |

| Course Title | Core<br>FINANCIAL ACCOUNTING II                               |
|--------------|---|
| <b>Code</b>  | <b>18CRM04</b>  |
|              | <b>On completion of the course, students would be able to</b> |
| CO-1         | Prepare accounts for branches and departmental accounts..     |

|      |   |
|------|---|
| CO-2 | Apply the knowledge of accounting in business for Hire purchase business.                                   |
| CO-3 | Calculate the share of partners at the time of Admission and Retirement.                                    |
| CO-4 | Find out the deceased partner's share on death and prepare accounts while converting a firm into a company. |
| CO-5 | Prepare accounts on dissolution of a partnership firm.  |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>MARKETING MANAGEMENT</b>   |
| <b>Code</b>         | <b>18CRM05</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Recollect the marketing concepts and analyze the role of marketing in the economic development.                            |
| CO-2                | Build knowledge on strategies pertaining to product planning, pricing and promotion.                                       |
| CO-3                | Gain knowledge on market segmentation strategies and analyze the various channels of distribution for effective marketing. |
| CO-4                | Evaluate the marketing strategies for industrial products, consumer products and services.                                 |
| CO-5                | Identify the importance of rural marketing and marketing research.   |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>PRACTICE WORKSHOP-I</b>                                    |
| <b>Code</b>         | <b>18CRM06</b>   |
|                     | <b>On completion of the course, students would be able to</b>          |
| CO-1                | Apply the operating procedures for banking transactions                |
| CO-2                | Analyze and prepare feasibility report to obtain bank loan             |
| CO-3                | Identify and apply the knowledge for availing educational loan         |
| CO-4                | Apply to Register for SSI units, PAN card and prepare partnership deed |
| CO-5                | Prepare organization chart for a public limited company                |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>COST ACCOUNTING</b>   |
| <b>Code</b>         | <b>18COU08/18COC08/18COE08/18AFU08/18CRM08/18BPU08/18FTU08/<br/>18FSU08/18CBI08</b> |
|                     | <b>On completion of the course, students would be able to</b>                       |
| CO-1                | Apply the Costing Concepts.   |
| CO-2                | Identify Appropriate Methods to control the Material Wastage.                       |
| CO-3                | Apply Suitable Methods for calculating the wages for labourers.                     |
| CO-4                | Prepare Cost Report.  |
| CO-5                | Apply knowledge for preparing Reconciliation Statement.                             |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>INCOME TAX</b>  |
| <b>Code</b>         | <b>18COU09/18COC09/18COE09/18AFU09/18CRM09/18FTU09/18FSU09/<br/>18CBI09</b> |
|                     | <b>On completion of the course, students would be able to</b>               |
| CO-1                | Apply the concepts for determining the Residential Status of an Assessee.   |
| CO-2                | Calculate Income from Salary and House property.                            |
| CO-3                | Compute Income from Business and Capital Gains.                             |
| CO-4                | Compute the Gross Total Income of an Assessee.                              |
| CO-5                | Know the Procedures for Assessment.   |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>COMPUTER PRACTICAL I - BUSINESS DATA PROCESSING</b>                  |
| <b>Code</b>         | <b>18COU10/18AFU10/18CRM10/18BPU10/18FTU10/18FSU10/18CBI10</b>                   |
|                     | <b>On completion of the course, students would be able to</b>                    |
| CO-1                | Draft Business letters, using features of MS Word.                               |
| CO-2                | Compute various application of business using MS Excel for Managerial decisions. |
| CO-3                | Develop Effective Business presentation using Power point.                       |

|      |  |
|------|--|
| CO-4 | Administer DBMS effectively.               |
| CO-5 | Apply the SPSS packages for Data Analysis. |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>BUSINESS COMMUNICATION</b>                                    |
| <b>Code</b>         | <b>18COU20/18COC22/18CRM11/18FTU20/18FSU20/18CBI20</b>                    |
|                     | <b>On completion of the course, students would be able to</b>             |
| CO-1                | Apply the Principles of Communication in Business Correspondence.         |
| CO-2                | Draft Business Letters and understanding the Structure of Letter Writing. |
| CO-3                | Apply the various Methods of Internal Communication.                      |
| CO-4                | Use the various skills in External Communication.                         |
| CO-5                | Effectively use the various Channels of Communication.                    |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>BUSINESS ECONOMICS</b>  |
| <b>Code</b>         | <b>18COC13/18COE13/18AFU12/18CRM12/18FSU12/18FTU12/18BPU12/<br/>18CBI12</b> |
|                     | <b>On completion of the course, students would be able to</b>               |
| CO-1                | Identify and apply the concept of Economics in Business Decision Making.    |
| CO-2                | Forecast the Market Demand for the Product.                                 |
| CO-3                | Analyse the changes in output due to changes in Factors of Production.      |
| CO-4                | Estimate the Break-Even Point in Business.                                  |
| CO-5                | Determine the Equilibrium Point under Different Market Structures.          |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>CORPORATE ACCOUNTING – I</b>   |
| <b>Code</b>         | <b>18COU13/18COC14/18COE14/18AFU13/18CRM13/18BPU13/18FTU13<br/>18FSU13/18CBI13</b> |
|                     | <b>On completion of the course, students would be able to</b>                      |
| CO-1                | Recall the Accounting entries for Issue of Shares and Debentures in a Company.     |
| CO-2                | Follow the Accounting Procedure for Redeeming Shares and Debentures.               |

|      |  |
|------|--|
| CO-3 | Prepare Final Accounts as per the Provisions of the Companies Act.                               |
| CO-4 | Value the Shares and Goodwill of the Company and prepare Accounts in the Process of Liquidation. |
| CO-5 | Apply the knowledge of Accounting with respect to Electricity Companies.                         |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>BUSINESS LAW</b>                                  |
| <b>Code</b>         | <b>18COU14 /18AFU14/18CRM14/18FSU14</b>                       |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Recall the basic concept of Laws.                             |
| CO-2                | Apply the knowledge about the Laws relating to Agreement.     |
| CO-3                | Demonstrate the concept relating to Bailment and Pledge.      |
| CO-4                | Apply the knowledge gained in the Sale of Goods.              |
| CO-5                | Perceive the knowledge about the Rights of Consumers.         |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>RETAIL MANAGEMENT</b>  |
| <b>Code</b>         | <b>18CRM15</b>   |
|                     | <b>On completion of the course, students would be able to</b>                                    |
| CO-1                | Understand the evolution of retailing, functions and economic importance of retailing.           |
| CO-2                | Appraise the retailers marketing tools and techniques to interact with their customers           |
| CO-3                | Evaluate the Gap Model Analysis: with reference to customer Expectations and Experience.         |
| CO-4                | Construct the retail store operation plan  |
| CO-5                | Compile the nature of the retail marketing mix, and the unique marketing emphases for retailers. |

|                     |                                   |
|---------------------|-----------------------------------|
| <b>Course Title</b> | <b>Core<br/>INDIRECT TAXATION</b> |
|---------------------|-----------------------------------|

|             |   |
|-------------|---|
| <b>Code</b> | <b>18COU16/18AFU16/18CRM16/18FTU16/18FSU16</b>                |
|             | <b>On completion of the course, students would be able to</b> |
| CO-1        | Recall the constitutional background of Taxes                 |
| CO-2        | Operate in the GST platform                                   |
| CO-3        | Identify Exempted Supply and calculate the Value of Supply    |
| CO-4        | Prepare Input Tax Credit Returns                              |
| CO-5        | Apply knowledge on Customs Duty, Import & Export Procedure    |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>PRACTICE WORKSHOP – II</b>   |
| <b>Code</b>         | <b>18COU17/18COC19/18COE19/18AFU17/18CRM17/18BPU17/18FTU17<br/>18FSU17/18CBI17</b>                   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Prepare the Purchase Requisition, Tender Form and Comparative Statement of Quotations for a Company. |
| CO-2                | Apply knowledge on documents to be filed related to Exports and Imports.                             |
| CO-3                | Apply the procedure for opening the Demat Trading Account.   |
| CO-4                | Apply the filing procedures for Filing the Life and General Insurance Forms.                         |
| CO-5                | Identify and apply the ways of Online Purchasing and Online Money Transferring System.               |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Interdisciplinary Course (IDC)<br/>RETAIL BANKING AND INSURANCE</b> |
| <b>Code</b>         | <b>18CRM18</b>   |
|                     | <b>On completion of the course, students would be able to</b>          |
| CO-1                | Develop knowledge on applicability of retail banking concepts.         |
| CO-2                | Understand the different models of credit scoring.                     |
| CO-3                | Understand the Marketing mix of retail banking products.               |
| CO-4                | Understand the role and importance on insurance on the economy         |
| CO-5                | Assess the role of IRDA in Indian insurance industry.                  |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>CORPORATE ACCOUNTING – II</b>  |
| <b>Code</b>         | <b>18COU19/18COC21/18COE21/18AFU19/18CRM19/18BPU19/18FTU19<br/>18FSU19/18CBI19</b> |
|                     | <b>On completion of the course, students would be able to</b>                      |
| CO-1                | Recall the Accounting entries for Amalgamation and Absorption of Companies.        |
| CO-2                | Make entries in the Books of Account at the time of Reconstruction of a Company.   |
| CO-3                | Prepare Final Accounts for Banking Companies.                                      |
| CO-4                | Prepare Insurance Company Accounts.  |
| CO-5                | Prepare Accounts for Holding and Subsidiary Companies.                             |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>RESEARCH METHODOLOGY</b>                             |
| <b>Code</b>         | <b>18CRM20</b>   |
|                     | <b>On completion of the course, students would be able to</b>    |
| CO-1                | Remember the Research Process.                                   |
| CO-2                | Apply the knowledge of Research Design in Project.               |
| CO-3                | Identify the Sampling Design easily for the project.             |
| CO-4                | Evaluate the collected data through various analysis techniques. |
| CO-5                | Build Knowledge in writing Research Report.                      |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Discipline Specific Elective -I<br/>DIGITAL MARKETING</b>                       |
| <b>Code</b>         | <b>18CRM21A</b>  |
|                     | <b>On completion of the course, students would be able to</b>                      |
| CO-1                | Gain knowledge on different application of e-commerce                              |
| CO-2                | Implement the knowledge on digital marketing                                       |
| CO-3                | Design website for their own venture   |
| CO-4                | Utilization of various social media marketing channels for promoting their venture |
| CO-5                | Adapt to the current e-retailing trends  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Discipline Specific Elective – I<br/>INFORMATION TECHNOLOGY FOR BUSINESS</b> |
| <b>Code</b>         | <b>18CRM21B</b>   |
|                     | <b>On completion of the course, students would be able to</b>                   |
| CO-1                | Recollect about the basic concepts of Information Technology.                   |
| CO-2                | Build abilities to create Software.   |
| CO-3                | Gain knowledge Operating System.  |
| CO-4                | Identify the Software and its Application.                                      |
| CO-5                | Develop information Technology in Enterprise.                                   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>FINANCIAL MANAGEMENT</b>                                    |
| <b>Code</b>         | <b>18COU21A/18COE25/18AFU21A/18CRM22/18FSU21A</b>                       |
|                     | <b>On completion of the course, students would be able to</b>           |
| CO-1                | Apply the concepts in various Functional areas of Financial Management. |
| CO-2                | Evaluate the Investment opportunities in Business.                      |
| CO-3                | Compute the overall Cost of Capital of the Company.                     |
| CO-4                | Develop optimum Capital Structure.                                      |
| CO-5                | Estimate Working Capital requirements of a Firm.                        |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>COMPUTER PRACTICAL - II - COMPUTERIZED ACCOUNTING<br/>(TALLY)</b> |
| <b>Code</b>         | <b>18COU23/18AFU23/18CRM23/18BPU23/18FTU23/18FSU23/18CBI23</b>                |
|                     | <b>On completion of the course, students would be able to</b>                 |
| CO-1                | Create company using various features of Tally.                               |
| CO-2                | Prepare Statement of Trading/Profit and loss Account and Balance Sheet.       |
| CO-3                | Prepare Inventory Report and Stock summary.                                   |
| CO-4                | Prepare Bank Reconciliation Statement.  |
| CO-5                | Compute the GST for Business Transactions.                                    |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>MANAGEMENT ACCOUNTING</b>  |
| <b>Code</b>         | <b>18COU25/18COC27/18COE28/18AFU25/18CRM25/18BPU25/18FTU25<br/>18FSU25/18CBI25</b> |
|                     | <b>On completion of the course, students would be able to</b>                      |
| CO-1                | Install Management Accounting System in an Organization.                           |
| CO-2                | Utilize the Techniques of Financial Statement for Business Decisions.              |
| CO-3                | Prepare Funds Flow and Cash Flow Statements for Business.                          |
| CO-4                | Apply the different Techniques for Preparing of Financial Budgets.                 |
| CO-5                | Apply Marginal and Standard Costing techniques in various Business Situations.     |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Discipline Specific Elective - II<br/>MALL MANAGEMENT</b>  |
| <b>Code</b>         | <b>18CRM26A</b>   |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Exhibit the concept of mall management and their challenges.  |
| CO-2                | Create a blueprint for mall design                            |
| CO-3                | Develop the tools towards leasing                             |
| CO-4                | Construct the environmental regulations of shopping malls     |
| CO-5                | Estimate role of technology in future shopping mall culture   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Discipline Specific Elective – II<br/>BRAND MANAGEMENT</b> |
| <b>Code</b>         | <b>18CRM26B</b>   |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Remember the Branding Process.                                |
| CO-2                | Apply the knowledge in Identifying the Brand.                 |
| CO-3                | Identify the Personality of the brand.                        |
| CO-4                | Evaluate the position of the brand and Equity of Brand.       |
| CO-5                | Build Knowledge in Extending the brand.                       |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>HUMAN RESOURCE MANAGEMENT</b>   |
| <b>Code</b>         | <b>18CRM27</b>  |
|                     | <b>On completion of the course, students would be able to</b>                                 |
| CO-1                | Recollect the HR concepts and analyze the role of HR in the organization.                     |
| CO-2                | Build abilities on planning the human resource and framing job specification and description. |
| CO-3                | Gain knowledge on recruitment and selection process.  |
| CO-4                | Identify the importance of training, career planning and grievance handling.                  |
| CO-5                | Develop insights into the performance evaluation techniques.                                  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>RETAIL SUPPLY CHAIN MANAGEMENT</b>                |
| <b>Code</b>         | <b>18CRM28</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Identify the challenges in product merchandising and pricing. |
| CO-2                | Develop a feasible product design.                            |
| CO-3                | Assess the required type of retail distribution strategy.     |
| CO-4                | Appraise the importance of green sourcing / retailing.        |
| CO-5                | Develop a plan for services retailing                         |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>ENTREPRENEURIAL DEVELOPMENT</b>                    |
| <b>Code</b>         | <b>18COU29/18COC29/18CRM29/18BPU29/18FTU29/18FSU29/18CBI29</b> |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Recall the qualities of an Entrepreneur.                       |
| CO-2                | Prepare the Feasibility Report for the business.               |
| CO-3                | Apply the Procedures for starting SSI.                         |
| CO-4                | Identify the Incentive Schemes.                                |
| CO-5                | Utilize the Institutional Assistance for the business ventures |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>PRACTICE WORKSHOP – III</b>                                       |
| <b>Code</b>         | <b>18COU30/18COC33/18COE34/18AFU30/18CRM30/18BPU30/18FTU30</b>                |
|                     | <b>On completion of the course, students would be able to</b>                 |
| CO-1                | Analyze and prepare the Annual Report, Agenda and Minutes of a Company        |
| CO-2                | File the IT returns for a University Professor / Teacher                      |
| CO-3                | Prepare the Curriculum Vitae.   |
| CO-4                | Prepare an Advertisement Copy of a product/ service.                          |
| CO-5                | Apply the knowledge for preparing Share Trading Report and the Business Plan. |



Since 1947

# PSG College of Arts & Science Coimbatore – 641 014

## Programme: BCom Financial System

### Programme Outcomes

|      | <b>On completion of the programme, the student will be able to</b>   |
|------|--|
| PO-1 | Become knowledgeable in the field of commerce with Financial System and apply the conceptual interpersonal and managerial skills for decision making in a business enterprise.   |
| PO-2 | Gain analytical skills in the area of Accounting, Finance, Taxation, Laws, Financial Markets and Investment management practices   |
| PO-3 | Understand and appreciate Professional Ethics, Community Living and Nation Building Initiatives.   |
| PO-4 | Exhibit knowledge and analytical skills for pursuing higher studies in the field of DFMM (Diploma on Financial Market Management), Chartered Financial Analyst, Certified Financial Planner and NCCMP (NSE academy Certified Capital Market Professional) and can exhibit professional skills in the field of Financial System such as Financial Analysts, Portfolio Managers, Venture Capital Professionals, Mutual Funds Client Service Consultants and Tax Consultants. |
| PO-5 | Build competency to manage the business and leadership challenges.   |

### Programme Specific Outcomes

|       | <b>On completion of the programme, the student will be able</b>   |
|-------|---|
| PSO-1 | Apply the knowledge of commerce in the domain of Financial System..   |
| PSO-2 | Solve the complex problems in the field of Financial System with an understanding of the societal, legal and cultural impact. |
| PSO-3 | Demonstrate the acquired theoretical knowledge and skills in the Capital Markets Segments                                     |
| PSO-4 | Form a part of member in a team with right attitude   |

### Course Outcomes

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>FINANCIAL ACCOUNTING-I</b>  |
| <b>Code</b>         | <b>18FSU01</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Prepare Final accounts of a Sole trading concern.   |
| CO-2                | Identify the errors to rectify them and also reconcile bank and cash statements.  |
| CO-3                | Apply the various techniques while preparing Account Current, Average due date and to prepare accounts for bills of exchange. |
| CO-4                | Compile the accounting information for Consignment and Joint venture transactions.  |
| CO-5                | Prepare royalty account and depreciation account.   |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>PRINCIPLES OF MANAGEMENT</b>   |
| <b>Code</b>         | <b>18FSU02</b>   |
|                     | <b>On completion of the course, students would be able to</b>                          |
| CO-1                | Exhibit the management concepts and their application in the global business scenario. |
| CO-2                | Apply the knowledge of planning in an organization which helps in decision making.     |
| CO-3                | Remember the organization structure for a business concern.                            |
| CO-4                | Develop the interpersonal managerial skills to excel as a good leader.                 |
| CO-5                | Identify the deviations from the standards to motivate the work force.                 |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>FINANCIAL ACCOUNTING II</b>                       |
| <b>Code</b>         | <b>18FSU04</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Prepare accounts for branches and departmental accounts.      |

|      |   |
|------|---|
| CO-2 | Apply the knowledge of accounting in business for Hire purchase business.                                   |
| CO-3 | Calculate the share of partners at the time of Admission and Retirement.                                    |
| CO-4 | Find out the deceased partner's share on death and prepare accounts while converting a firm into a company. |
| CO-5 | Prepare accounts on dissolution of a partnership firm.  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>INDIAN FINANCIAL SYSTEM</b>                       |
| <b>Code</b>         | <b>18FSU05</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Understand the structure of Indian Financial System.          |
| CO-2                | Familiarize with money market and capital market operations.  |
| CO-3                | Recollect the functions of various financial institutions.    |
| CO-4                | Perceive knowledge on financial Services in India.            |
| CO-5                | Have a clear idea on Non Banking Financial Institutions.      |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>PRACTICE WORKSHOP - I</b>                                  |
| <b>Code</b>         | <b>18FSU06</b>   |
|                     | <b>On completion of the course, students would be able to</b>          |
| CO-1                | Apply the operating procedures for banking transactions                |
| CO-2                | Analyze and prepare feasibility report to obtain bank loan             |
| CO-3                | Identify and apply the knowledge for availing educational loan         |
| CO-4                | Apply to Register for SSI units, PAN card and prepare partnership deed |
| CO-5                | Prepare organization chart for a public limited company                |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>COST ACCOUNTING</b>   |
| <b>Code</b>         | <b>18COU08/18COC08/18COE08/18AFU08/18CRM08/18BPU08/18FTU08/<br/>18FSU08/18CBI08</b> |
|                     | <b>On completion of the course, students would be able to</b>                       |
| CO-1                | Apply the Costing Concepts.   |

|      |   |
|------|---|
| CO-2 | Identify Appropriate Methods to control the Material Wastage.   |
| CO-3 | Apply Suitable Methods for calculating the wages for labourers. |
| CO-4 | Prepare Cost Report.  |
| CO-5 | Apply knowledge for preparing Reconciliation Statement.         |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>INCOME TAX</b>  |
| <b>Code</b>         | <b>18COU09/18COC09/18COE09/18AFU09/18CRM09/18FTU09/18FSU09/<br/>18CBI09</b> |
|                     | <b>On completion of the course, students would be able to</b>               |
| CO-1                | Apply the concepts for determining the Residential Status of an Assessee.   |
| CO-2                | Calculate Income from Salary and House property.                            |
| CO-3                | Compute Income from Business and Capital Gains.                             |
| CO-4                | Compute the Gross Total Income of an Assessee.                              |
| CO-5                | Know the Procedures for Assessment.   |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>COMPUTER PRACTICAL I - BUSINESS DATA PROCESSING II</b>               |
| <b>Code</b>         | <b>18COU10/18AFU10/18CRM10/18BPU10/18FTU10/18FSU10/18CBI10</b>                   |
|                     | <b>On completion of the course, students would be able to</b>                    |
| CO-1                | Draft Business letters, using features of MS Word.                               |
| CO-2                | Compute various application of business using MS Excel for Managerial decisions. |
| CO-3                | Develop Effective Business presentation using Power point.                       |
| CO-4                | Administer DBMS effectively.   |
| CO-5                | Apply the SPSS packages for Data Analysis.                                       |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>COMPANY LAW</b>                                   |
| <b>Code</b>         | <b>18COU11/18AFU11/18BPU11/18FTU11/18FSU11/18CBI11</b>        |
|                     | <b>On completion of the course, students would be able to</b> |

|      |  |
|------|--|
| CO-1 | Follow the Procedures to form a Company type of Organisation.        |
| CO-2 | Understand the Documents to be prepared for Incorporating a Company. |
| CO-3 | Apprehend the Procedure to be followed in Issue of Share             |
| CO-4 | Manage the Company Affairs.  |
| CO-5 | Conduct Meetings and write Minutes.                                  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>BUSINESS ECONOMICS</b>  |
| <b>Code</b>         | <b>18COC13/18COE13/18AFU12/18CRM12/18FSU12/18FTU12/18BPU12/<br/>18CBI12</b> |
|                     | <b>On completion of the course, students would be able to</b>               |
| CO-1                | Identify and apply the concept of Economics in Business Decision Making.    |
| CO-2                | Forecast the Market Demand for the Product.                                 |
| CO-3                | Analyze the changes in output due to changes in Factors of Production.      |
| CO-4                | Estimate the Break-Even Point in Business.                                  |
| CO-5                | Determine the Equilibrium Point under Different Market Structures.          |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>CORPORATE ACCOUNTING – I</b>   |
| <b>Code</b>         | <b>18COU13/18COC14/18COE14/18AFU13/18CRM13/18BPU13/18FTU13<br/>18FSU13/18CBI13</b>               |
|                     | <b>On completion of the course, students would be able to</b>                                    |
| CO-1                | Recall the Accounting entries for Issue of Shares and Debentures in a Company.                   |
| CO-2                | Follow the Accounting Procedure for Redeeming Shares and Debentures.                             |
| CO-3                | Prepare Final Accounts as per the Provisions of the Companies Act.                               |
| CO-4                | Value the Shares and Goodwill of the Company and prepare Accounts in the Process of Liquidation. |
| CO-5                | Apply the knowledge of Accounting with respect to Electricity Companies.                         |

|               |             |
|---------------|-------------|
| <b>Course</b> | <b>Core</b> |
|---------------|-------------|

|              |   |
|--------------|---|
| <b>Title</b> | <b>BUSINESS LAW</b>   |
| <b>Code</b>  | <b>18COU14/18AFU14/18CRM14/18FSU14</b>                        |
|              | <b>On completion of the course, students would be able to</b> |
| CO-1         | Recall the basic concept of Laws.                             |
| CO-2         | Apply the knowledge about the Laws relating to Agreement.     |
| CO-3         | Demonstrate the concept relating to Bailment and Pledge.      |
| CO-4         | Apply the knowledge gained in the Sale of Goods.              |
| CO-5         | Perceive the knowledge about the Rights of Consumers          |

|               |   |
|---------------|---|
| <b>Course</b> | <b>Core</b>   |
| <b>Title</b>  | <b>FINANCIAL MARKETS</b>                                      |
| <b>Code</b>   | <b>18FSU15</b>  |
|               | <b>On completion of the course, students would be able to</b> |
| CO-1          | Understand the Structure and Function of Financial Markets    |
| CO-2          | Familiarize with New Issue Market.                            |
| CO-3          | Recollect the Functions of Secondary Market.                  |
| CO-4          | Perceive knowledge on Working of Money Market.                |
| CO-5          | Have a clear idea on Corporate Debt Market.                   |

|               |   |
|---------------|---|
| <b>Course</b> | <b>Core</b>   |
| <b>Title</b>  | <b>INDIRECT TAXATION</b>                                      |
| <b>Code</b>   | <b>18COU16/18AFU16/18CRM16/18FTU16/18FSU16</b>                |
|               | <b>On completion of the course, students would be able to</b> |
| CO-1          | Recall the constitutional background of Taxes.                |
| CO-2          | Operate in the GST Platform.                                  |
| CO-3          | Identify Exempted Supply and calculate the Value of Supply.   |
| CO-4          | Prepare Input Tax Credit Returns.                             |
| CO-5          | Apply knowledge on Customs Duty, Import & Export Procedure.   |

|               |             |
|---------------|-------------|
| <b>Course</b> | <b>Core</b> |
|---------------|-------------|

|              |  |
|--------------|--|
| <b>Title</b> | <b>PRACTICE WORKSHOP – II</b>  |
| <b>Code</b>  | <b>18COU17/18COC19/18COE19/18AFU17/18CRM17/18BPU17/18FTU17<br/>18FSU17/18CBI17</b>                   |
|              | <b>On completion of the course, students would be able to</b>  |
| CO-1         | Prepare the Purchase Requisition, Tender Form and Comparative Statement of Quotations for a Company. |
| CO-2         | Apply knowledge on documents to be filed related to Exports and Imports.                             |
| CO-3         | Apply the procedure for opening the Demat Trading Account.   |
| CO-4         | Apply the filing procedures for Filing the Life and General Insurance Forms.                         |
| CO-5         | Identify and apply the ways of Online Purchasing and Online MoneyTransferring System.                |

|               |   |
|---------------|---|
| <b>Course</b> | <b>Core</b>   |
| <b>Title</b>  | <b>FUNDAMENTALS OF E-COMMERCE AND M-COMMERCE</b>              |
| <b>Code</b>   | <b>18COU18/18COC20/18FSU18/18CBI18</b>                        |
|               | <b>On completion of the course, students would be able to</b> |
| CO-1          | Identify the e-Commerce Applications.                         |
| CO-2          | Evaluate the Network Security System                          |
| CO-3          | Apply the interactive Marketing Process through Internet.     |
| CO-4          | Operate in the platform of Mobile Commerce                    |
| CO-5          | Utilize the e-Technology Services                             |

|               |  |
|---------------|--|
| <b>Course</b> | <b>CORE</b>  |
| <b>Title</b>  | <b>CORPORATE ACCOUNTING – II</b>   |
| <b>Code</b>   | <b>18COU19/18COC21/18COE21/18AFU19/18CRM19/18BPU19/18FTU19<br/>18FSU19/18CBI19</b> |
|               | <b>On completion of the course, students would be able to</b>                      |
| CO-1          | Recall the Accounting entries for Amalgamation and Absorption of Companies.        |
| CO-2          | Make entries in the Books of Account at the time of Reconstruction of a Company.   |
| CO-3          | Prepare Final Accounts for Banking Companies.                                      |

|      |  |
|------|--|
| CO-4 | Prepare Insurance Company Accounts.                    |
| CO-5 | Prepare Accounts for Holding and Subsidiary Companies. |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>CORE<br/>BUSINESS COMMUNICATION</b>                                    |
| <b>Code</b>         | <b>18COU20/18COC22/18CRM11/18FTU20/18FSU20/18CBI20</b>                    |
|                     | <b>On completion of the course, students would be able to</b>             |
| CO-1                | Apply the Principles of Communication in Business Correspondence.         |
| CO-2                | Draft Business Letters and understanding the Structure of Letter Writing. |
| CO-3                | Apply the various Methods of Internal Communication.                      |
| CO-4                | Use the various skills in External Communication.                         |
| CO-5                | Effectively use the various Channels of Communication.                    |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Discipline Specific Elective – I<br/>FINANCIAL MANAGEMENT</b>        |
| <b>Code</b>         | <b>18COU21A/18COE25/18AFU21A/18CRM22/18FSU21A</b>                       |
|                     | <b>On completion of the course, students would be able to</b>           |
| CO-1                | Apply the concepts in various Functional areas of Financial Management. |
| CO-2                | Evaluate the Investment opportunities in Business.                      |
| CO-3                | Compute the overall Cost of Capital of the Company.                     |
| CO-4                | Develop optimum Capital Structure.                                      |
| CO-5                | Estimate Working Capital requirements of a Firm.                        |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Discipline Specific Elective – I<br/>WORKING CAPITAL MANAGEMENT</b> |
| <b>Code</b>         | <b>18COU21B/18AFU21B/18FSU21B</b>                                      |
|                     | <b>On completion of the course, students would be able to</b>          |
| CO-1                | Forecast Working Capital Management Requirements of a Firm.            |
| CO-2                | Utilize the Working Capital Financing Mix effectively.                 |
| CO-3                | Manage the Receivables effectively.                                    |

|      |  |
|------|--|
| CO-4 | Apply Cash and Inventory Management Tools for optimum Cash and Inventory Management. |
| CO-5 | Assess the Working Capital Finance.  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>FINANCIAL DERIVATIVES</b>   |
| <b>Code</b>         | <b>18FSU22</b>  |
|                     | <b>On completion of the course, students would be able to</b>                     |
| CO-1                | Have a good understanding of Derivatives securities.                              |
| CO-2                | Acquire knowledge on functioning of Forward and Future contracts.                 |
| CO-3                | Elucidate the students on Trading and Settlements of Option contracts             |
| CO-4                | Illustrate how swaps are utilized in Risk management                              |
| CO-5                | Examine the types of risk and to familiarize with Investors Grievances mechanism. |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>COMPUTER PRACTICAL - II<br/>COMPUTERIZED ACCOUNTING (TALLY)</b> |
| <b>Code</b>         | <b>18COU23/18AFU23/18CRM23/18BPU23/18FTU23/18FSU23/18CBI23</b>              |
|                     | <b>On completion of the course, students would be able to</b>               |
| CO-1                | Create company using various features of Tally.                             |
| CO-2                | Prepare Statement of Trading/Profit and loss Account and Balance Sheet.     |
| CO-3                | Prepare Inventory Report and Stock summary.                                 |
| CO-4                | Prepare Bank Reconciliation Statement.                                      |
| CO-5                | Compute the GST for Business Transactions.                                  |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>MANAGEMENT ACCOUNTING</b>  |
| <b>Code</b>         | <b>18COU25/18COC27/18COE28/18AFU25/18CRM25/18BPU25/18FTU25<br/>18FSU25/18CBI25</b> |
|                     | <b>On completion of the course, students would be able to</b>                      |
| CO-1                | Install Management Accounting System in an Organization.                           |

|      |  |
|------|--|
| CO-2 | Utilize the Techniques of Financial Statement for Business Decisions.          |
| CO-3 | Prepare Funds Flow and Cash Flow Statements for Business.                      |
| CO-4 | Apply the different Techniques for Preparing of Financial Budgets.             |
| CO-5 | Apply Marginal and Standard Costing techniques in various Business Situations. |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Discipline Specific Elective – II<br/>PORTFOLIO MANAGEMENT</b>  |
| <b>Code</b>         | <b>18FSU26A</b>  |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Summarize the various theoretical concepts and techniques of Portfolio Management and Risk aspects.          |
| CO-2                | Analyze the theoretical perspectives and practical aspects of Fundamental Analysis for investment decisions. |
| CO-3                | Predict the share price movements with the help of various tools used in Technical Analysis.                 |
| CO-4                | Select and construct Optimal Portfolio using Capital Market Theories.  |
| CO-5                | Evaluate the investment decisions using tools such-as Formula Plans and differential Return.                 |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Discipline Specific Elective – II<br/>PROJECT MANAGEMENT</b>  |
| <b>Code</b>         | <b>18FSU26B</b>  |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Describe a project life cycle, and can skillfully map each stage in the Cycle.   |
| CO-2                | Describe the time needed to successfully complete a project, considering factors such as task dependencies and task lengths. |
| CO-3                | Provide internal information regarding project costs by considering factors such as estimated cost, variances and profits.   |
| CO-4                | Work with focus to achieve the completion of tasks within project timeframes.  |
| CO-5                | Know the areas for follow-up and corrective actions after the audit.   |

|               |             |
|---------------|-------------|
| <b>Course</b> | <b>Core</b> |
|---------------|-------------|

|              |  |
|--------------|--|
| <b>Title</b> | <b>AUDITING</b>  |
| <b>Code</b>  | <b>18COU27/18AFU27/18BPU27/18FSU27</b>                                       |
|              | <b>On completion of the course, students would be able to</b>                |
| CO-1         | Identify the different types for Audit.                                      |
| CO-2         | Apply the techniques of Internal check.                                      |
| CO-3         | Identify the Powers and Responsibilities of an Auditor.                      |
| CO-4         | Recollect the Provisions for conducting Company Audit and Specialized Audit. |
| CO-5         | Apply the Provisions related to Depreciation and Reserves.                   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core FINANCIAL SERVICES</b>                                |
| <b>Code</b>         | <b>18FSU28</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Exhibit the financial service concepts and its trends.        |
| CO-2                | Apply the knowledge of common assets and funding.             |
| CO-3                | Recollect about the merchant banking and factoring.           |
| CO-4                | Provide knowledge on securitization and credit rating         |
| CO-5                | Identify alternative financial services in India.             |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core ENTREPRENEURIAL DEVELOPMENT</b>                         |
| <b>Code</b>         | <b>18COU29/18COC29/18CRM29/18BPU29/18FTU29/18FSU29/18CBI29</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Recall the qualities of an Entrepreneur.                        |
| CO-2                | Prepare the Feasibility Report for the business.                |
| CO-3                | Apply the Procedures for starting SSI.                          |
| CO-4                | Identify the Incentive Schemes.                                 |
| CO-5                | Utilize the Institutional Assistance for the business ventures. |

|                     |                                     |
|---------------------|-------------------------------------|
| <b>Course Title</b> | <b>Core PRACTICE WORKSHOP – III</b> |
|---------------------|-------------------------------------|

|             |  |
|-------------|--|
| <b>Code</b> | <b>18COU30/18COC33/18COE34/18AFU30/18CRM30/18BPU30/18FTU30<br/>18FSU30/18CBI30</b> |
|             | <b>On completion of the course, students would be able to</b>                      |
| CO-1        | Analyze and prepare the Annual Report, Agenda and Minutes of a Company.            |
| CO-2        | File the IT returns for a University Professor / Teacher                           |
| CO-3        | Prepare the Curriculum Vitae.  |
| CO-4        | Prepare an Advertisement Copy of a product/ service.                               |
| CO-5        | Apply the knowledge for preparing Share Trading Report and the Business Plan.      |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Generic Elective Course<br/>PUBLIC FINANCE</b>                      |
| <b>Code</b>         | <b>18GECFSU</b>  |
|                     | <b>On completion of the course, students would be able to</b>          |
| CO-1                | Exhibit the concept of Public Finance in Economic Development          |
| CO-2                | Perceive knowledge on Tax Revenue and Effects of Taxation.             |
| CO-3                | Have a clear idea on role of Public Expenditure in developing country. |



Since 1947

# PSG College of Arts & Science Coimbatore – 641 014

## Programme: BCom Foreign Trade

| Programme Outcomes  |   |
|---|---|
| On completion of this programme the successful student will have the knowledge and understanding of |   |
| Programme Outcomes  |   |
| On completion of the programme, the student will be able to   |   |
| PO-1  | Become knowledgeable in the field of Commerce blended with Foreign Trade and apply the conceptual interpersonal managerial skills for decision making in a business enterprise.                                     |
| PO-2  | Gain analytical skills in the area of Accounting, Taxation, Supply Chain Management in International Trade, International Banking & Forex Management.   |
| PO-3  | Understand and appreciate Professional Ethics, Community Living and Nation Building Initiatives.  |
| PO-4  | Exhibit multitasking skills and knowledge for pursuing career in the field of Logistics, Documentation, Letter of Credit operations and Port Handling operations to sustain in the International Trade Environment. |
| PO-5  | Build competency to manage the business and leadership challenges.  |

| Programme Specific Outcomes                              |   |
|--|---|
| On completion of the programme, the student will be able |   |
| PSO-1  | Apply the knowledge of commerce in the domain of Foreign Trade.   |
| PSO-2  | Solve the complex problems in the field of Foreign Trade with an understanding of the societal, legal and cultural impact.                                    |
| PSO-3  | Demonstrate the acquired theoretical knowledge in industries through academia partnership program which facilitates to work in the foreign trade environment. |
| PSO-4  | Form a part of member in a team with right attitude.  |

## Course Outcomes

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>FINANCIAL ACCOUNTING - I</b>   |
| <b>Code</b>         | <b>18FTU01</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Prepare Final accounts of a Sole trading concern.  |
| CO-2                | Identify the errors to rectify them and also reconcile bank and cash statements.   |
| CO-3                | Apply the various techniques while preparing Account Current, Average due date and to prepare accounts for bills of exchange |
| CO-4                | Compile the accounting information for Consignment and Joint venture transactions.   |
| CO-5                | Prepare royalty account and depreciation account.  |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>PRINCIPLES OF MANAGEMENT</b>   |
| <b>Code</b>         | <b>18FTU02</b>   |
|                     | <b>On completion of the course, students would be able to</b>                          |
| CO-1                | Exhibit the management concepts and their application in the global business scenario. |
| CO-2                | Apply the knowledge of planning in an organization which helps in decision making      |
| CO-3                | Remember the organization structure for a business concern.                            |
| CO-4                | Develop the interpersonal managerial skills to excel as a good leader.                 |
| CO-5                | Identify the deviations from the standards to motivate the work force.                 |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>FINANCIAL ACCOUNTING II</b>                                   |
| <b>Code</b>         | <b>18FTU04</b>  |
|                     | <b>On completion of the course, students would be able to</b>             |
| CO-1                | Prepare accounts for branches and departmental accounts.                  |
| CO-2                | Apply the knowledge of accounting in business for Hire purchase business. |

|      |   |
|------|---|
| CO-3 | Calculate the share of partners at the time of Admission and Retirement.                                    |
| CO-4 | Find out the deceased partner's share on death and prepare accounts while converting a firm into a company. |
| CO-5 | Prepare accounts on dissolution of a partnership firm   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>FUNDAMENTALS OF INTERNATIONAL TRADE</b>   |
| <b>Code</b>         | <b>18FTU05</b>  |
|                     | <b>On completion of the course, students would be able to</b>                                       |
| CO-1                | Differentiate the features of domestic trade and international trade                                |
| CO-2                | Understand the barriers in international trade and the significance of intellectual property rights |
| CO-3                | Analyze the equilibrium position in balance of trade and balance of payment in foreign trade        |
| CO-4                | Familiarize the strategies in the international economic integration through its groupings          |
| CO-5                | Integrate the international organization with international HRM                                     |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>PRACTICE WORKSHOP-I</b>                                    |
| <b>Code</b>         | <b>18FTU06</b>   |
|                     | <b>On completion of the course, students would be able to</b>          |
| CO-1                | Apply the operating procedures for banking transactions                |
| CO-2                | Analyze and prepare feasibility report to obtain bank loan             |
| CO-3                | Identify and apply the knowledge for availing educational loan         |
| CO-4                | Apply to Register for SSI units, PAN card and prepare partnership deed |
| CO-5                | Prepare organization chart for a public limited company                |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>COST ACCOUNTING</b>   |
| <b>Code</b>         | <b>18COU08/18COC08/18COE08/18AFU08/18CRM08/18BPU08/18FTU08/<br/>18FSU08/18CBI08</b> |

|      | <b>On completion of the course, students would be able to</b>       |
|------|---|
| CO-1 | Apply the Costing Concepts.   |
| CO-2 | Identify Appropriate Methods to control the Material Wastage.       |
| CO-3 | Apply the Suitable Methods for calculating the wages for labourers. |
| CO-4 | Prepare Cost Report.  |
| CO-5 | Apply the knowledge for preparing Reconciliation Statement          |

| <b>Course Title</b> | <b>Core<br/>INCOME TAX</b>  |
|---------------------|---|
| <b>Code</b>         | <b>18COU09/18COC09/18COE09/18AFU09/18CRM09/18FTU09/18FSU09/<br/>18CBI09</b> |
|                     | <b>On completion of the course, students would be able to</b>               |
| CO-1                | Apply the concepts for determining the Residential Status of an Assessee.   |
| CO-2                | Calculate Income from Salary and House property.                            |
| CO-3                | Compute Income from Business and Capital Gains.                             |
| CO-4                | Compute the Gross Total Income of an Assessee.                              |
| CO-5                | Know the Procedures for Assessment.   |

| <b>Course Title</b> | <b>Core<br/>COMPUTER PRACTICAL I- BUSINESS DATA PROCESSING</b>                   |
|---------------------|--|
| <b>Code</b>         | <b>18COU10/18AFU10/18CRM10/18BPU10/18FTU10/18FSU10/18CBI10</b>                   |
|                     | <b>On completion of the course, students would be able to</b>                    |
| CO-1                | Draft Business letters, using features of MS Word.                               |
| CO-2                | Compute various application of business using MS Excel for Managerial decisions. |
| CO-3                | Develop Effective Business presentation using Power point.                       |
| CO-4                | Administer DBMS effectively.   |
| CO-5                | Apply the SPSS packages for Data Analysis.                                       |

| <b>Course Title</b> | <b>Core<br/>COMPANY LAW</b>                                   |
|---------------------|---|
| <b>Code</b>         | <b>18COU11/18AFU11/18BPU11/18FTU11/18FSU11/18CBI11</b>        |
|                     | <b>On completion of the course, students would be able to</b> |

|      |  |
|------|--|
| CO-1 | Follow the Procedures to form a Company type of Organisation         |
| CO-2 | Understand the Documents to be prepared for Incorporating a Company. |
| CO-3 | Apprehend the Procedure to be followed in Issue of Share             |
| CO-4 | Manage the Company Affairs   |
| CO-5 | Conduct Meetings and write Minutes                                   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>BUSINESS ECONOMICS</b>  |
| <b>Code</b>         | <b>18COC13/18COE13/18AFU12/18CRM12/18FSU12/18FTU12/18BPU12/<br/>18CBI12</b> |
|                     | <b>On completion of the course, students would be able to</b>               |
| CO-1                | Identify and apply the concept of Economics in Business Decision Making.    |
| CO-2                | Forecast the Market Demand for the Product.                                 |
| CO-3                | Analyse the changes in Output due to changes in factors of Production.      |
| CO-4                | Estimate the Break-Even Point in Business.                                  |
| CO-5                | Determine the Equilibrium Point under Different Market Structures.          |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>CORPORATE ACCOUNTING – I</b>   |
| <b>Code</b>         | <b>18COU13/18COC14/18COE14/18AFU13/18CRM13/18BPU13/18FTU13<br/>18FSU13/18CBI13</b>               |
|                     | <b>On completion of the course, students would be able to</b>                                    |
| CO-1                | Recall the Accounting entries for Issue of Shares and Debentures in a Company.                   |
| CO-2                | Follow the Accounting Procedure for Redeeming Shares and Debentures.                             |
| CO-3                | Prepare Final Accounts as per the Provisions of the Companies Act.                               |
| CO-4                | Value the Shares and Goodwill of the Company and prepare Accounts in the Process of Liquidation. |
| CO-5                | Apply the knowledge of Accounting with respect to Electricity Companies.                         |

|               |             |
|---------------|-------------|
| <b>Course</b> | <b>Core</b> |
|---------------|-------------|

|              |  |
|--------------|--|
| <b>Title</b> | <b>INTERNATIONAL BUSINESS ENVIRONMENT</b>  |
| <b>Code</b>  | <b>18FTU14</b>   |
|              | <b>On completion of the course, students would be able to</b>                                      |
| CO-1         | Analyze the Political, Social, Economic and Technological aspects that support Cross-border Trade. |
| CO-2         | Analyze the barriers to Globalization and levels of Technology Transfer.                           |
| CO-3         | Develop the MNC's Strategies in Modern Business.   |
| CO-4         | Evaluate and apply the knowledge in International Investments, Debt and Liquidity.                 |
| CO-5         | Examine the Negotiations and Social Issues in International Business.                              |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>INDIA'S FOREIGN TRADE</b>                         |
| <b>Code</b>         | <b>18FTU15</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Analyze the importance of Foreign Trade in India.             |
| CO-2                | Perceive the Legal Policy Framework of India's Foreign Trade. |
| CO-3                | Recall the various Institutions that support Foreign Trade.   |
| CO-4                | Interpret the functions of State Trading Corporations.        |
| CO-5                | Examine the facilities available for Export Promotion.        |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>INDIRECT TAXATION</b>                             |
| <b>Code</b>         | <b>18COU16/18AFU16/18CRM16/18FTU16/18FSU16</b>                |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Recall the constitutional background of Taxes.                |
| CO-2                | Operate in the GST Platform.                                  |
| CO-3                | Identify Exempted Supply and calculate the Value of Supply.   |
| CO-4                | Prepare Input Tax Credit Returns.                             |
| CO-5                | Apply knowledge on Customs Duty, Import & Export Procedure.   |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>PRACTICE WORKSHOP – II</b> |
|---------------------|--|

|             |  |
|-------------|--|
| <b>Code</b> | <b>18COU17/18COC19/18COE19/18AFU17/18CRM17/18BPU17/18FTU17<br/>18FSU17/18CBI17</b>                   |
|             | <b>On completion of the course, students would be able to</b>  |
| CO-1        | Prepare the Purchase Requisition, Tender Form and Comparative Statement of Quotations for a Company. |
| CO-2        | Apply knowledge on documents to be filed related to Exports and Imports.                             |
| CO-3        | Apply the procedure for opening the Demat Trading Account.   |
| CO-4        | Apply the filing procedures for Filing the Life and General Insurance Forms.                         |
| CO-5        | Identify and apply the ways of Online Purchasing and Online Money Transferring System.               |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>PRINCIPLES OF INSURANCE</b>                        |
| <b>Code</b>         | <b>18FTU18</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Identify the Risk Elements and its Coverage through Insurance. |
| CO-2                | Exhibit the Skills in Marketing of Insurance Products.         |
| CO-3                | Apply the Fire, Marine and Cargo Insurance.                    |
| CO-4                | Integrate the Role and Functions of IRDA.                      |
| CO-5                | Examine the Functions of Third Party Administrators.           |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>CORPORATE ACCOUNTING – II</b>  |
| <b>Code</b>         | <b>18COU19/18COC21/18COE21/18AFU19/18CRM19/18BPU19/18FTU19<br/>18FSU19/18CBI19</b> |
|                     | <b>On completion of the course, students would be able to</b>                      |
| CO-1                | Recall the Accounting entries for Amalgamation and Absorption of Companies.        |
| CO-2                | Make entries in the Books of Account at the time of Reconstruction of a Company.   |
| CO-3                | Prepare Final Accounts for Banking Companies.                                      |
| CO-4                | Prepare Insurance Company Accounts.  |
| CO-5                | Prepare Accounts for Holding and Subsidiary Companies.                             |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>BUSINESS COMMUNICATION</b>                                   |
| <b>Code</b>         | <b>18COU20/18COC22/18CRM11/18FTU20/18FSU20/18CBI20</b>                   |
|                     | <b>On completion of the course, students would be able to</b>            |
| CO-1                | Apply the Principles of Communication in Business Correspondence.        |
| CO-2                | Draft Business Letters by understanding the Structure of Letter Writing. |
| CO-3                | Apply the various Methods of Internal Communication.                     |
| CO-4                | Use the various skills in External Communication.                        |
| CO-5                | Effectively use the various Channels of Communication.                   |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Discipline Specific Elective – I<br/>FOREIGN TRADE PROCEDURES AND DOCUMENTATION</b> |
| <b>Code</b>         | <b>18FTU21A</b>  |
|                     | <b>On completion of the course, students would be able to</b>                          |
| CO-1                | Identify the Barriers in International Trade.  |
| CO-2                | Remember the Trade Contracts and its Role in International Trade.                      |
| CO-3                | Analyse the Documentation Procedures in Export Trade.                                  |
| CO-4                | Apply the skills in Import Trade Procedures and Documentation.                         |
| CO-5                | Examine the Export Pricing Methods and Risks.  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>EXIM FINANCING, SHIPPING AND INSURANCE</b>                        |
| <b>Code</b>         | <b>18FTU21B</b>   |
|                     | <b>On completion of the course, students would be able to</b>                 |
| CO-1                | Remember the role of EXIM Finance in International Trade.                     |
| CO-2                | Analyze the significance of Letter of Credit Operations Post-shipment Credit. |
| CO-3                | Apply the acquired knowledge to overcome the Export Credit Risks.             |
| CO-4                | Recall the Port Handling Operations.  |
| CO-5                | Assess the Marine Losses and its Insurance Coverage.                          |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>INTERNATIONAL MARKETING</b> |
|---------------------|---|

|             |   |
|-------------|---|
| <b>Code</b> | <b>18FTU22</b>  |
|             | <b>On completion of the course, students would be able to</b>                           |
| CO-1        | Identify the Market for entering into the International Business.                       |
| CO-2        | Analyse the Product Strategies and Product Portfolio Matrix in International Marketing. |
| CO-3        | Differentiate the various Pricing Methods for Export.                                   |
| CO-4        | Evaluate and apply the Promotional Strategies at Global Level.                          |
| CO-5        | Execute the Market Survey and Report Writing Skills in Business.                        |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>COMPUTER PRACTICAL II – COMPUTERIZED ACCOUNTING<br/>(TALLY)</b> |
| <b>Code</b>         | <b>18COU23/18AFU23/18CRM23/18BPU23/18FTU23/18FSU23/18CBI23</b>              |
|                     | <b>On completion of the course, students would be able to</b>               |
| CO-1                | Create company using various features of Tally.                             |
| CO-2                | Prepare Statement of Trading/Profit and loss Account and Balance Sheet.     |
| CO-3                | Prepare Inventory Report and Stock summary.                                 |
| CO-4                | Prepare Bank Reconciliation Statement.                                      |
| CO-5                | Compute the GST for Business Transactions.                                  |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>MANAGEMENT ACCOUNTING</b>  |
| <b>Code</b>         | <b>18COU25/18COC27/18COE28/18AFU25/18CRM25/18BPU25/18FTU25<br/>18FSU25/18CBI25</b> |
|                     | <b>On completion of the course, students would be able to</b>                      |
| CO-1                | Install Management Accounting System in an Organization.                           |
| CO-2                | Utilize the Techniques of Financial Statement for Business Decisions.              |
| CO-3                | Prepare Funds Flow and Cash Flow Statements for Business.                          |
| CO-4                | Apply the different Techniques for Preparing of Financial Budgets.                 |
| CO-5                | Apply Marginal and Standard Costing techniques in various Business Situations.     |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Discipline Specific Elective – II<br/>LOGISTICS MANAGEMENT</b> |
|---------------------|---|

|             |   |
|-------------|---|
| <b>Code</b> | <b>18COU26A/18COE31/18FTU26A</b>                              |
|             | <b>On completion of the course, students would be able to</b> |
| CO-1        | Identify the Components of Logistics.                         |
| CO-2        | Operate the various Modes of Transportation.                  |
| CO-3        | Identify Multi Model Transport Network System.                |
| CO-4        | Utilize the Warehousing and Packaging benefits                |
| CO-5        | Identify the different types of Distribution System           |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Discipline Specific Elective – II<br/>SUPPLY CHAIN MANAGEMENT</b> |
| <b>Code</b>         | <b>18COU26B/18BPU26B/18FTU26B</b>                                    |
|                     | <b>On completion of the course, students would be able to</b>        |
| CO-1                | Formulate Strategies for Supply Chain Management.                    |
| CO-2                | Handle Customer related to Sales and Services.                       |
| CO-3                | Identify Inventory Control for Supply Chain Operation.               |
| CO-4                | Establish own Business or Supply Chain Operation.                    |
| CO-5                | Operate with Location Strategy and Supply Chain Control System.      |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>INTERNATIONAL BANKING &amp; FOREX MANAGEMENT</b>                   |
| <b>Code</b>         | <b>18FTU27</b>   |
|                     | <b>On completion of the course, students would be able to</b>                  |
| CO-1                | Recall the International Banking Institutions.                                 |
| CO-2                | Evaluate the International Investments and Financial Decisions.                |
| CO-3                | Monitor the Exchange Rate Fluctuations at Global Level.                        |
| CO-4                | Identify the Exchange Rate Contracts and the Risks in Foreign Export Markets.  |
| CO-5                | Examine the Foreign Exchange Market and its Impact in the International Trade. |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>SUPPLY CHAIN MANAGEMENT IN INTERNATIONAL TRADE</b> |
| <b>Code</b>         | <b>18FTU28</b>   |

|      | <b>On completion of the course, students would be able to</b>              |
|------|--|
| CO-1 | Remember the Concepts of Supply Chain Management.                          |
| CO-2 | Identify the major Drivers and its Performance in Supply Chain Management. |
| CO-3 | Evaluate the Distribution Network in Different Industries.                 |
| CO-4 | Apply the Components and Methods of Demand Forecast in Supply Chain.       |
| CO-5 | Analyze the role of Sourcing in a Supply Chain.                            |

| <b>Course Title</b> | <b>Core</b>   |
|---------------------|---|
|                     | <b>ENTREPRENEURIAL DEVELOPMENT</b>                              |
| <b>Code</b>         | <b>18COU29/18COC29/18CRM29/18BPU29/18FTU29/18FSU29/18CBI29</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Recall the qualities of an Entrepreneur.                        |
| CO-2                | Prepare the Feasibility Report for the business.                |
| CO-3                | Apply the Procedures for starting SSI.                          |
| CO-4                | Identify the Incentive Schemes.                                 |
| CO-5                | Utilize the Institutional Assistance for the business ventures. |

| <b>Course Title</b> | <b>Core</b>  |
|---------------------|--|
|                     | <b>PRACTICE WORKSHOP – III</b>   |
| <b>Code</b>         | <b>18COU30/18COC33/18COE34/18AFU30/18CRM30/18BPU30/18FTU30<br/>18FSU30/18CBI30</b> |
|                     | <b>On completion of the course, students would be able to</b>                      |
| CO-1                | Analyze and prepare the Annual Report, Agenda and Minutes of a Company             |
| CO-2                | File the IT returns for a University Professor / Teacher                           |
| CO-3                | Prepare the Curriculum Vitae.  |
| CO-4                | Prepare an Advertisement Copy of a product/ service.                               |
| CO-5                | Apply the knowledge for preparing Share Trading Report and the Business Plan.      |



Since 1947

# PSG College of Arts & Science Coimbatore – 641 014

## Programme: BCom Business Process Services

### Programme Outcomes

|      | On completion of the programme, the student will be able to   |
|------|---|
| PO-1 | Become knowledgeable in the field of Commerce blended with Business Process Service and apply the conceptual, interpersonal and managerial skills for decision making in a business enterprise. |
| PO-2 | Gain analytical skill in the areas of Accounting, Finance, Marketing, Insurance and related Commerce courses.   |
| PO-3 | Understand and appreciate Professional Ethics, Community Living and Nation Building Initiatives.  |
| PO-4 | Demonstrate skills and knowledge for pursuing careers in Information Technology Enabled Services and other Business Consultancy Services.   |
| PO-5 | Demonstrate as ethical business professionals with abroad understanding of business from an interdisciplinary perspective.  |

### Programme Specific Outcomes

|       | On completion of the programme, the student will be able   |
|-------|--|
| PSO-1 | Apply the knowledge of Finance & Accounting, Insurance, Capital markets, Retail Environment, Banking and Management in BPS Industry.                     |
| PSO-2 | Solve the complex problems in the field of BPS Industries with an understanding of Societal, legal and cultural impact.                                  |
| PSO-3 | Demonstrate the employability skills, acquired through various training programmes in Information Technology Enabled Services and other related sectors. |
| PSO-4 | Form a part of member in a team with right attitudes.  |

**Course Outcomes**

| <b>Course Title</b> | <b>Core<br/>FINANCIAL ACCOUNTING-I</b>  |
|---------------------|---|
| <b>Code</b>         | <b>19BPU01</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Prepare Final accounts of a Sole trading concern.   |
| CO-2                | Identify the errors to rectify them and also reconcile bank and cash statements.  |
| CO-3                | Apply the various techniques while preparing Account Current, Average due date and to prepare accounts for bills of exchange. |
| CO-4                | Compile the accounting information for Consignment and Joint venture transactions.  |
| CO-5                | Prepare royalty account and depreciation account.   |

| <b>Course Title</b> | <b>Core<br/>PRINCIPLES OF MANAGEMENT</b>   |
|---------------------|--|
| <b>Code</b>         | <b>19BPU02</b>   |
|                     | <b>On completion of the course, students would be able to</b>                          |
| CO-1                | Exhibit the management concepts and their application in the global business scenario. |
| CO-2                | Apply the knowledge of planning in an organization which helps in decision making.     |
| CO-3                | Remember the organization structure for a business concern.                            |
| CO-4                | Develop the interpersonal managerial skills to excel as a good leader.                 |
| CO-5                | Identify the deviations from the standards to motivate the work force.                 |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>FINANCIAL ACCOUNTING II</b>   |
| <b>Code</b>         | <b>19BPU04</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Prepare accounts for branches and departmental accounts.  |
| CO-2                | Apply the knowledge of accounting in business for Hire purchase business.                                   |
| CO-3                | Calculate the share of partners at the time of Admission and Retirement.                                    |
| CO-4                | Find out the deceased partner's share on death and prepare accounts while converting a firm into a company. |
| CO-5                | Prepare accounts on dissolution of a partnership firm.  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>FINANCE AND ACCOUNTING FOR BUSINESS PROCESS SERVICES</b>  |
| <b>Code</b>         | <b>19BPU05</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Recollect the areas in which BPS Sector is operating.   |
| CO-2                | Analyze the supply chain and general accounting process in Outsourcing Industry.                            |
| CO-3                | Implement the knowledge to deal with Accounts Receivable and Accounts Payable in corporate industry.        |
| CO-4                | Understand the key aspects of accounting standards and emerging trends in Finance and Accounting Technology |
| CO-5                | Identify the Internal Control framework and its importance.   |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>PRACTICE WORKSHOP-I</b>                                    |
| <b>Code</b>         | <b>19BPU06</b>   |
|                     | <b>On completion of the course, students would be able to</b>          |
| CO-1                | Apply the operating procedures for banking transactions                |
| CO-2                | Analyze and prepare feasibility report to obtain bank loan             |
| CO-3                | Identify and apply the knowledge for availing educational loan         |
| CO-4                | Apply to Register for SSI units, PAN card and prepare partnership deed |
| CO-5                | Prepare organization chart for a public limited company                |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>COST ACCOUNTING</b>   |
| <b>Code</b>         | <b>18COU08/18COC08/18COE08/18AFU08/18CRM08/19BPU08/18FTU08/<br/>18FSU08/18CBI08</b> |
|                     | <b>On completion of the course, students would be able to</b>                       |
| CO-1                | Apply the Costing Concepts.   |
| CO-2                | Identify Appropriate Methods to control the Material Wastage.                       |
| CO-3                | Identify Appropriate Methods to control the Material Wastage.                       |
| CO-4                | Prepare Cost Report.  |
| CO-5                | Apply knowledge for preparing Reconciliation Statement.                             |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>Supply Chain Management</b>  |
| <b>Code</b>         | <b>19BPU09</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Identify the importance and understand the multiple facets of supply chain business in their own perspective.  |
| CO-2                | Apply supply chain management principles and operational concepts to integrate, coordinate and synchronize supply chain activities to articulate and deliver customer-directed quality outcomes within legal, regulatory, business and ethical frameworks in local and international environments. |
| CO-3                | Students will be able to identify the principles of customer and supplier relationship management in supply chains and the principles of quality and lean manufacturing.   |
| CO-4                | Analyze the smooth transition of goods and services from manufacturers to the customers.   |
| CO-5                | Apply the knowledge of current information technology in all the major supply chain management practices.  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>COMPUTER PRACTICAL I - BUSINESS DATA PROCESSING</b> |
| <b>Code</b>         | <b>18COU10/18AFU10/18CRM10/19BPU10/18FTU10/18FSU10/18CBI10</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |

|      |  |
|------|--|
| CO-1 | Draft Business letters, using features of MS Word.                               |
| CO-2 | Compute various application of business using MS Excel for Managerial decisions. |
| CO-3 | Develop Effective Business presentation using Power point.                       |
| CO-4 | Administer DBMS effectively.   |
| CO-5 | Apply the SPSS packages for Data Analysis.                                       |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>INSURANCE FOR BUSINESS PROCESS SERVICES</b>   |
| <b>Code</b>         | <b>19BPU11</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Describe the concept of insurance life , health, disability, property and liability risks, as well as annuities, group insurance, and long term care. |
| CO-2                | Understand and be able to distinguish the various types of contract terms relevant in the context of an insurance contract.                           |
| CO-3                | Discuss the importance of healthcare insurance & its regulations & Standards.   |
| CO-4                | Exhibit the ability to appropriately select from available Insurance products to meet clients' need.  |
| CO-5                | Property-liability insurance, life and health insurance, and employee benefit plans.  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>BUSINESS ECONOMICS</b>  |
| <b>Code</b>         | <b>18COC13/18COE13/18AFU12/18CRM12/18FSU12/18FTU12/19BPU12/<br/>18CBI12</b> |
|                     | <b>On completion of the course, students would be able to</b>               |
| CO-1                | Identify and apply the concept of Economics in Business Decision Making.    |
| CO-2                | Forecast the Market Demand for the Product.                                 |
| CO-3                | Analyze the changes in Output due to changes in factors of Production.      |
| CO-4                | Estimate the Break-Even Point in Business.                                  |
| CO-5                | Determine the Equilibrium Point under Different Market Structures.          |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>CORPORATE ACCOUNTING – I</b>   |
| <b>Code</b>         | <b>18COU13/18COC14/18COE14/18AFU13/18CRM13/19BPU13/18FTU13<br/>18FSU13/18CBI13</b>               |
|                     | <b>On completion of the course, students would be able to</b>                                    |
| CO-1                | Recall the Accounting entries for Issue of Shares and Debentures in a Company.                   |
| CO-2                | Follow the Accounting Procedure for Redeeming Shares and Debentures.                             |
| CO-3                | Prepare Final Accounts as per the Provisions of the Companies Act.                               |
| CO-4                | Value the Shares and Goodwill of the Company and prepare Accounts in the Process of Liquidation. |
| CO-5                | Apply the knowledge of Accounting with respect to Electricity Companies.                         |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>BANKING FOR BUSINESS PROCESS SERVICES</b>   |
| <b>Code</b>         | <b>19BPU14</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Familiarize the concepts and legal aspects of banking.  |
| CO-2                | Know about various products in retail banking and importance of Customer Relationship Management in banking business. |
| CO-3                | Acquire knowledge of the negotiable instruments in banking and responsibilities of a banker.                          |
| CO-4                | Understand about regulations involved in the functions or payment and collection activities.                          |
| CO-5                | Apply the services provided by banks in the fund transfer process.  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>RETAIL ENVIRONMENT AND MARKET RESEARCH</b>                            |
| <b>Code</b>         | <b>19BPU15</b>  |
|                     | <b>On completion of the course, students would be able to</b>                     |
| CO-1                | Extrapolate the functions of Marketing Environment and CPG Industry.              |
| CO-2                | Relating the concepts of Marketing Strategies and Product Promotions.             |
| CO-3                | Implement the different types of Market Segmentation in Retail Marketing.         |
| CO-4                | Identify the various Types of Market Research and its Methodology.                |
| CO-5                | Restate the Consumer Research Panel and Data Reports preparation of CPG industry. |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>INDIRECT TAXATION</b>                             |
| <b>Code</b>         | <b>18COU16/18AFU16/18CRM16/18FTU16/18FSU16/19BPU16</b>        |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Recall the constitutional background of Taxes.                |
| CO-2                | Operate in the GST Platform.                                  |
| CO-3                | Identify Exempted Supply and calculate the Value of Supply.   |
| CO-4                | Prepare Input Tax Credit Returns.                             |
| CO-5                | Apply knowledge on Customs Duty, Import & Export Procedure    |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>PRACTICE WORKSHOP – II</b>   |
| <b>Code</b>         | <b>18COU17/18COC19/18COE19/18AFU17/18CRM17/18FTU17<br/>18FSU17/18CBI17/19BPU17</b>                   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Prepare the Purchase Requisition, Tender Form and Comparative Statement of Quotations for a Company. |
| CO-2                | Apply knowledge on documents to be filed related to Exports and Imports.                             |
| CO-3                | Apply the procedure for opening the Demat Trading Account.   |
| CO-4                | Apply the filing procedures for Filing the Life and General Insurance Forms.                         |
| CO-5                | Identify and apply the ways of Online Purchasing and Online Money Transferring System.               |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Interdisciplinary Course<br/>CAMPUS TO CORPORATE TRANSITION</b>  |
| <b>Code</b>         | <b>19BPU18</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Outline the Importance and Domains of BPS.  |
| CO-2                | Categorize the regulations involved in the campus and in various corporate sectors.                             |
| CO-3                | Assess their Personality to Upgrade their Skills.   |
| CO-4                | Develop their Inter Personal Communication Skills through Effective use of English and Business Correspondence. |
| CO-5                | Practice the conversation skills and develop the presentation skills.   |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>CORPORATE ACCOUNTING – II</b>  |
| <b>Code</b>         | <b>18COU19/18COC21/18COE21/18AFU19/18CRM19/18BPU19/18FTU19<br/>18FSU19/18CBI19</b> |
|                     | <b>On completion of the course, students would be able to</b>                      |
| CO-1                | Recall the Accounting entries for Amalgamation and Absorption of Companies.        |
| CO-2                | Make entries in the Books of Account at the time of Reconstruction of a Company.   |
| CO-3                | Prepare Final Accounts for Banking Companies.                                      |
| CO-4                | Prepare Insurance Company Accounts.  |
| CO-5                | Prepare Accounts for Holding and Subsidiary Companies.                             |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>CAPITAL MARKETS FOR BUSINESS PROCESS SERVICES</b>                             |
| <b>Code</b>         | <b>19BPU20</b>  |
|                     | <b>On completion of the course, students would be able to</b>                             |
| CO-1                | Know about the concepts and types of financial markets.                                   |
| CO-2                | Understand various capital market instruments and their contributions.                    |
| CO-3                | Familiarize the process of Investment banking and Corporate fund management               |
| CO-4                | Identify the importance of Mutual Funds and their performance.                            |
| CO-5                | Know the basics of derivative markets and to manage the risk involved in capital markets. |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Discipline Specific Elective – I<br/>MANAGING BUSINESS PROCESSES - I</b>      |
| <b>Code</b>         | <b>18BPU21A/19BPU21A</b>   |
|                     | <b>On completion of the course, students would be able to</b>                    |
| CO-1                | Understand the Problem Solving Techniques in Business Process Outsourcing.       |
| CO-2                | Analyze the importance of Process Management in BPO Industry and its Operations. |
| CO-3                | Apply various Models of Process Mapping Techniques and Tools.                    |
| CO-4                | To Understand the knowledge of Business Concepts with Quality Management.        |
| CO-5                | Recall the Delivery Management and its Types of Function.                        |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Discipline Specific Elective – I<br/>ORGANIZATIONAL BEHAVIOUR</b>     |
| <b>Code</b>         | <b>19BPU21B</b>  |
|                     | <b>On completion of the course, students would be able to</b>            |
| CO-1                | Recollect the principles and importance of organization behaviour.       |
| CO-2                | Familiarize the personality and motivational thoughts.                   |
| CO-3                | Understands the involvement of group effort in an organization.          |
| CO-4                | Identify the contribution of a leader in development of an organization. |
| CO-5                | Differentiate the organizational culture and climate.                    |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>RESEARCH METHODOLOGY</b>  |
| <b>Code</b>         | <b>19BPU22</b>  |
|                     | <b>On completion of the course, students would be able to</b>                 |
| CO-1                | Understand the Research Terminology and Principles                            |
| CO-2                | Apply the knowledge of Sampling Design in Project.                            |
| CO-3                | Impart Knowledge on Collection of Data & Scaling Techniques.                  |
| CO-4                | Develop Skills in Qualitative and Quantitative data analysis and Presentation |
| CO-5                | Implementing the techniques of Research Report in the competitive market      |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>COMPUTER PRACTICAL - II - COMPUTERIZED ACCOUNTING (TALLY)</b> |
| <b>Code</b>         | <b>18COU23/18AFU23/18CRM23/19BPU23/18FTU23/18FSU23/18CBI23</b>            |
|                     | <b>On completion of the course, students would be able to</b>             |
| CO-1                | Create company using various features of Tally.                           |
| CO-2                | Prepare Statement of Trading/Profit and loss Account and Balance Sheet.   |
| CO-3                | Prepare Inventory Report and Stock summary.                               |
| CO-4                | Prepare Bank Reconciliation Statement.                                    |
| CO-5                | Compute the GST for Business Transactions.                                |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>MANAGEMENT ACCOUNTING</b>  |
| <b>Code</b>         | <b>18COU25/18COC27/18COE28/18AFU25/18CRM25/19BPU25/18FTU25<br/>18FSU25/18CBI25</b> |
|                     | <b>On completion of the course, students would be able to</b>                      |
| CO-1                | Install Management Accounting System in an Organization                            |
| CO-2                | Utilize the Techniques of Financial Statement for Business Decisions.              |
| CO-3                | Prepare Funds Flow and Cash Flow Statements for Business.                          |
| CO-4                | Apply the different Techniques for Preparing of Financial Budgets.                 |
| CO-5                | Apply Marginal and Standard Costing techniques in various Business Situations      |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Discipline Specific Elective - II<br/>MANAGING BUSINESS PROCESSES-II</b>                   |
| <b>Code</b>         | <b>18BPU26A/19BPU26A</b>  |
|                     | <b>On completion of the course, students would be able to</b>                                 |
| CO-1                | Gain knowledge on the Problem Solving Techniques in a Business Process.                       |
| CO-2                | Figure out the Best Tools among 7 QC Tools.   |
| CO-3                | Understand the Six Sigma Methodology in an Organization.                                      |
| CO-4                | Prioritize the Lean Tools and grasp the difference between Push and Pull System.              |
| CO-5                | Systematize Risk Management and spread the Information Security Awareness among the students. |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Discipline Specific Elective - II<br/>HUMAN RESOURCE MANAGEMENT</b>                        |
| <b>Code</b>         | <b>19BPU26B</b>   |
|                     | <b>On completion of the course, students would be able to</b>                                 |
| CO-1                | Competent in Development and problem solving skills in the areas of Human Resource Management |
| CO-2                | Understand the concept of Human resource planning and its contributions.                      |
| CO-3                | Apply the requirements for recruitment and selection process                                  |
| CO-4                | Imparting the importance of Human Resource Function in Training & development                 |
| CO-5                | Familiarize evaluation techniques and career development in management                        |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>AUDITING</b>  |
| <b>Code</b>         | <b>18COU27/18AFU27/18BPU27/18FSU27/19BPU27</b>                              |
|                     | <b>On completion of the course, students would be able to</b>               |
| CO-1                | Identify the different types for Audit.                                     |
| CO-2                | Apply the techniques of Internal check                                      |
| CO-3                | Identify the Powers and Responsibilities of an Auditor.                     |
| CO-4                | Recollect the Provisions for conducting Company Audit and Specialized Audit |
| CO-5                | Apply the Provisions related to Depreciation and Reserves                   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>CUSTOMER RELATIONSHIP MANAGEMENT</b>  |
| <b>Code</b>         | <b>19BPU28</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Understand the concepts of customer relationship management.  |
| CO-2                | Recall the categories of customer profile analysis.   |
| CO-3                | Prioritize the strategies adopted in Customer Relationship Management.                                  |
| CO-4                | Implement knowledge process applied and the effects with CRM technologies.                              |
| CO-5                | Identify the possibilities of new trends that could be adopted in the Customer Relationship Management. |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>ENTREPRENEURIAL DEVELOPMENT</b>                            |
| <b>Code</b>         | <b>18COU29/18COC29/18CRM29/18BPU29/18FTU29/18FSU29/18CBI29/19BPU29</b> |
|                     | <b>On completion of the course, students would be able to</b>          |
| CO-1                | Recall the qualities of an Entrepreneur.                               |
| CO-2                | Prepare the Feasibility Report for the business                        |
| CO-3                | Apply the Procedures for starting SSI                                  |
| CO-4                | Identify the Incentive Schemes..                                       |
| CO-5                | Utilize the Institutional Assistance for the business ventures.        |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>PRACTICE WORKSHOP - III</b>  |
| <b>Code</b>         | <b>18COU30/18COC33/18COE34/18AFU30/18CRM30/18BPU30/18FTU30<br/>18FSU30/18CBI30</b> |
|                     | <b>On completion of the course, students would be able to</b>                      |
| CO-1                | Analyze and prepare the Annual Report, Agenda and Minutes of a company             |
| CO-2                | File the IT returns for a University Professor / Teacher                           |
| CO-3                | Prepare the Curriculum Vitae   |
| CO-4                | Prepare an Advertisement Copy of a product / service                               |
| CO-5                | Apply the knowledge for preparing Share Trading Report and the Business Plan       |



Since 1947

# PSG College of Arts & Science Coimbatore – 641 014

## Programme: BCom Banking & Insurance

### Programme Outcomes

|      | <b>On completion of the programme, the student will be able to</b>  |
|------|---|
| PO-1 | Become knowledgeable in the field of Commerce blended with Banking and Insurance and apply the conceptual, interpersonal managerial skills for decision making in a business enterprise   |
| PO-2 | Gain analytical skills in the areas of Banking, Insurance, Accounting, Finance, Taxation and related Commerce courses.  |
| PO-3 | Understand and appreciate Professional Ethics, Community Living and Nation Building Initiatives   |
| PO-4 | Exhibit professional skills and knowledge for pursuing Post Graduate Diploma in Banking, PG Diploma in Actuarial sciences and for practicing as Relationship Managers, Financial Advisers, Insurance Underwriters and Claim Examiners |
| PO-5 | Build competency to meet challenges for global employment.  |

### Programme Specific Outcomes

|       | <b>On completion of the programme, the student will be able</b>  |
|-------|--|
| PSO-1 | Apply the knowledge of Commerce in the domain of Banking and Insurance.  |
| PSO-2 | Solve the complex problems in the field of Banking and Insurance with an understanding of the societal, legal and cultural impact. |
| PSO-3 | Demonstrate the acquired theoretical knowledge and skills to excel in Banking and Insurance sectors.                               |
| PSO-4 | Form a part of member in a team with right attitude  |

### Course Outcomes

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>FINANCIAL ACCOUNTING - I</b>  |
| <b>Code</b>         | <b>18CBI01</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Prepare Final accounts of a Sole trading concern.   |
| CO-2                | Identify the errors to rectify them and also reconcile bank and cash statements.  |
| CO-3                | Apply the various techniques while preparing Account Current, Average due date and to prepare accounts for bills of exchange. |
| CO-4                | Compile the accounting information for Consignment and Joint venture transactions.  |
| CO-5                | Prepare royalty account and depreciation account.   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>FUNDAMENTALS OF BANKING</b>                       |
| <b>Code</b>         | <b>18CBI02</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Recall the basic concepts of money and banking structure.     |
| CO-2                | Understand the significance of KYC norms.                     |
| CO-3                | Interpret the conditions for loans and advances in banks.     |
| CO-4                | Identify and analyze various negotiable instruments.          |
| CO-5                | Understand the regulations of RBI.                            |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>FINANCIAL ACCOUNTING II</b>                       |
| <b>Code</b>         | <b>18CBI04</b>  |
|                     | <b>On completion of the course, students would be able to</b> |

|      |   |
|------|---|
| CO-1 | Prepare accounts for branches and departmental accounts.  |
| CO-2 | Apply the knowledge of accounting in business for Hire purchase business.                                   |
| CO-3 | Calculate the share of partners at the time of Admission and Retirement.                                    |
| CO-4 | Find out the deceased partner's share on death and prepare accounts while converting a firm into a company. |
| CO-5 | Prepare accounts on dissolution of a partnership firm.  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>INSURANCE SYSTEM</b>                              |
| <b>Code</b>         | <b>18CBI05</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Interpret the concepts and classification of Risk.            |
| CO-2                | Justify the principles and terms of insurance.                |
| CO-3                | Comprehend the knowledge on insurance sector                  |
| CO-4                | Classify the various insurance intermediaries.                |
| CO-5                | Analyze the impact of IT on insurance.                        |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>PRACTICE WORKSHOP-I</b>                                    |
| <b>Code</b>         | <b>18CBI06</b>   |
|                     | <b>On completion of the course, students would be able to</b>          |
| CO-1                | Apply the operating procedures for banking transactions                |
| CO-2                | Analyze and prepare feasibility report to obtain bank loan             |
| CO-3                | Identify and apply the knowledge for availing educational loan         |
| CO-4                | Apply to Register for SSI units, PAN card and prepare partnership deed |
| CO-5                | Prepare organization chart for a public limited company                |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>COST ACCOUNTING</b>   |
| <b>Code</b>         | <b>18COU08/18COC08/18COE08/18AFU08/18CRM08/18BPU08/18FTU08/<br/>18FSU08/18CBI08</b> |
|                     | <b>On completion of the course, students would be able to</b>                       |
| CO-1                | Apply the Costing Concepts.   |
| CO-2                | Identify Appropriate Methods to control the Material Wastage.                       |
| CO-3                | Apply Suitable Methods for calculating the wages for labourers.                     |
| CO-4                | Prepare Cost Report.  |
| CO-5                | Apply knowledge for preparing Reconciliation Statement.                             |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>INCOME TAX</b>  |
| <b>Code</b>         | <b>18COU09/18COC09/18COE09/18AFU09/18CRM09/18FTU09/18FSU09/<br/>18CBI09</b> |
|                     | <b>On completion of the course, students would be able to</b>               |
| CO-1                | Apply the concepts for determining the Residential Status of an Assessee.   |
| CO-2                | Calculate Income from Salary and House property.                            |
| CO-3                | Compute Income from Business and Capital Gains.                             |
| CO-4                | Compute the Gross Total Income of an Assessee.                              |
| CO-5                | Know the Procedures for Assessment.   |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>COMPUTER PRACTICAL I -BUSINESS DATA PROCESSING</b>                   |
| <b>Code</b>         | <b>18COU10/18AFU10/18CRM10/18BPU10/18FTU10/18FSU10/18CBI10</b>                   |
|                     | <b>On completion of the course, students would be able to</b>                    |
| CO-1                | Draft Business letters, using features of MS Word.                               |
| CO-2                | Compute various application of business using MS Excel for Managerial decisions. |
| CO-3                | Develop Effective Business presentation using Power point.                       |

|      |  |
|------|--|
| CO-4 | Administer DBMS effectively.               |
| CO-5 | Apply the SPSS packages for Data Analysis. |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>COMPANY LAW</b>  |
| <b>Code</b>         | <b>18COU11/18AFU11/18BPU11/18FTU11/18FSU11/18CBI11</b>               |
|                     | <b>On completion of the course, students would be able to</b>        |
| CO-1                | Follow the Procedures to form a Company type of Organization.        |
| CO-2                | Understand the Documents to be prepared for Incorporating a Company. |
| CO-3                | Apprehend the Procedure to be followed in Issue of Share             |
| CO-4                | Manage the Company Affairs.  |
| CO-5                | Conduct Meetings and write Minutes.                                  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>BUSINESS ECONOMICS</b>  |
| <b>Code</b>         | <b>18COC13/18COE13/18AFU12/18CRM12/18FSU12/18FTU12/18BPU12/<br/>18CBI12</b> |
|                     | <b>On completion of the course, students would be able to</b>               |
| CO-1                | Identify and apply the concept of Economics in Business Decision Making.    |
| CO-2                | Forecast the Market Demand for the Product.                                 |
| CO-3                | Analyze the changes in output due to changes in Factors of Production.      |
| CO-4                | Estimate the Break-Even Point in Business.                                  |
| CO-5                | Determine the Equilibrium Point under Different Market Structures.          |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>CORPORATE ACCOUNTING – I</b>   |
| <b>Code</b>         | <b>18COU13/18COC14/18COE14/18AFU13/18CRM13/18BPU13/18FTU13<br/>18FSU13/18CBI13</b> |
|                     | <b>On completion of the course, students would be able to</b>                      |
| CO-1                | Recall the Accounting entries for Issue of Shares and Debentures in a Company.     |
| CO-2                | Follow the Accounting Procedure for Redeeming Shares and Debentures.               |

|      |  |
|------|--|
| CO-3 | Prepare Final Accounts as per the Provisions of the Companies Act.                               |
| CO-4 | Value the Shares and Goodwill of the Company and prepare Accounts in the Process of Liquidation. |
| CO-5 | Apply the knowledge of Accounting with respect to Electricity Companies.                         |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>BANKING AND INSURANCE LAWS</b>  |
| <b>Code</b>         | <b>18CBI14</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Build specialized knowledge on Acquisition, Amalgamation of Banking Companies under Banking Regulation Act. |
| CO-2                | Explain the role of RBI and Financial Inclusion in Banking.   |
| CO-3                | Discuss the objectives of Ombudsman Scheme, SARFAESI and FRDI Bill.   |
| CO-4                | Summarize the Evolution and Insurance Regulations in India.   |
| CO-5                | Examine the powers of IRDA in regulating Insurance Companies.   |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>BANK MANAGEMENT</b>  |
| <b>Code</b>         | <b>18CBI15</b>   |
|                     | <b>On completion of the course, students would be able to</b>                        |
| CO-1                | Classify the Branches and procedure to Opening, Shifting and Conversion of Branches. |
| CO-2                | Identify the facilities provided by Banks.   |
| CO-3                | State the importance of Customer Service in Banks                                    |
| CO-4                | Recognize the Internal Control Mechanisms in Banks and Prevention of Frauds.         |
| CO-5                | Analyze the HRM mechanism in Banks and Performance Appraisal Procedures.             |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>LIFE INSURANCE</b>                                |
| <b>Code</b>         | <b>18CBI16</b>  |
|                     | <b>On completion of the course, students would be able to</b> |

|      |  |
|------|--|
| CO-1 | Prioritize the feature of Life Insurance and LIC's organizational Structure.   |
| CO-2 | Describe the procedure for Issue, Alteration and Foreclosure of Policy.  |
| CO-3 | Recall the Valuation Approaches and Types of Life Insurance Policies.  |
| CO-4 | Summarize the factors affecting the Pricing of Life Insurance Products and Calculation of Premium and Surrender Value. |
| CO-5 | Explain the Procedure, Settlement and Types of Life Insurance Claims.  |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>PRACTICE WORKSHOP – II</b>   |
| <b>Code</b>         | <b>18COU17/18COC19/18COE19/18AFU17/18CRM17/18BPU17/18FTU17/<br/>18FSU17/ 18CBI17</b>                 |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Prepare the Purchase Requisition, Tender Form and Comparative Statement of Quotations for a Company. |
| CO-2                | Apply knowledge on documents to be filed related to Exports and Imports.                             |
| CO-3                | Apply the procedure for opening the Demat Trading Account.   |
| CO-4                | Apply the filing procedures for Filing the Life and General Insurance Forms.                         |
| CO-5                | Identify and apply the ways of Online Purchasing and Online Money Transferring System.               |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>FUNDAMENTALS OF E-COMMERCE AND M-COMMERCE</b>     |
| <b>Code</b>         | <b>18COU18/18COC20/18FSU18/18CBI18</b>                        |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Identify the e-Commerce Applications.                         |
| CO-2                | Evaluate the Network Security System                          |
| CO-3                | Apply the interactive Marketing Process through Internet.     |
| CO-4                | Operate in the platform of Mobile Commerce                    |
| CO-5                | Utilize the e-Technology Services                             |

|               |             |
|---------------|-------------|
| <b>Course</b> | <b>Core</b> |
|---------------|-------------|

|              |   |
|--------------|---|
| <b>Title</b> | <b>CORPORATE ACCOUNTING –II</b>   |
| <b>Code</b>  | <b>18COU19/18COC21/18COE21/18AFU19/18CRM19/18BPU19/18FTU19/<br/>18FSU19/18CBI19</b> |
|              | <b>On completion of the course, students would be able to</b>                       |
| CO-1         | Recall the Accounting entries for Amalgamation and Absorption of Companies.         |
| CO-2         | Make entries in the Books of Account at the time of Reconstruction of a Company.    |
| CO-3         | Prepare Final Accounts for Banking Companies.                                       |
| CO-4         | Prepare Insurance Company Accounts.   |
| CO-5         | Prepare Accounts for Holding and Subsidiary Companies.                              |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>BUSINESS COMMUNICATION</b>                                    |
| <b>Code</b>         | <b>18COU20/18COC22/18CRM11/18FTU20/18FSU20/18CBI20</b>                    |
|                     | <b>On completion of the course, students would be able to</b>             |
| CO-1                | Apply the Principles of Communication in Business Correspondence.         |
| CO-2                | Draft Business Letters and understanding the Structure of Letter Writing. |
| CO-3                | Apply the various Methods of Internal Communication.                      |
| CO-4                | Use the various skills in External Communication.                         |
| CO-5                | Effectively use the various Channels of Communication.                    |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Discipline Specific Elective – I<br/>E-BANKING TECHNOLOGY</b>                   |
| <b>Code</b>         | <b>18CBI21A</b>  |
|                     | <b>On completion of the course, students would be able to</b>                      |
| CO-1                | Relate the importance of Networking and global developments in Banking Technology. |
| CO-2                | Analyze the merits and demerits of Automatic Teller Machine.                       |
| CO-3                | Select and make use of appropriate Electronic Fund Transfer                        |
| CO-4                | Explain the types and message format of SWIFT.                                     |
| CO-5                | Summarize the strategies of E-banking and Information System Security.             |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Discipline Specific Elective – I<br/>DEVELOPMENT BANKING</b>                     |
| <b>Code</b>         | <b>18CBI21B</b>   |
|                     | <b>On completion of the course, students would be able to</b>                       |
| CO-1                | Relate source of Rural Credit and Rural indebtedness.                               |
| CO-2                | Identify the role, functions and initiative of NABARD in Rural Development.         |
| CO-3                | Examine the performance Regional Rural Banks and latest technology.                 |
| CO-4                | Outlinefor organizational structure and Functions of Co-operative Credit Societies. |
| CO-5                | Summarize about Lead banks, SIDBI and NHB.  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>SERVICE MARKETING IN BANKING AND INSURANCE</b>  |
| <b>Code</b>         | <b>18CBI22</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Differentiate goods and services and state features and significanceof Service Marketing.                               |
| CO-2                | Categorize the 7 P's of Marketing mix in Services Marketing.  |
| CO-3                | Analyze Marketing of various Financial Services.  |
| CO-4                | Comprehend the application of Marketing Principles in Bank Marketingand identify Market Segmentation in Bank Marketing. |
| CO-5                | Recallthe Market Segmentation and Marketing Mix of Insurance Marketing.   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>COMPUTER PRACTICAL - II - COMPUTERIZED ACCOUNTING<br/>(TALLY)</b> |
| <b>Code</b>         | <b>18COU23/18AFU23/18CRM23/18BPU23/18FTU23/18FSU23/18CBI23</b>                |
|                     | <b>On completion of the course, students would be able to</b>                 |
| CO-1                | Create company accounts using various features of Tally.                      |
| CO-2                | Prepare Statement of Trading/Profit and loss Account and Balance Sheet.       |
| CO-3                | Prepare Inventory Report and Stock summary.                                   |
| CO-4                | Prepare Bank Reconciliation Statement.  |

|      |  |
|------|--|
| CO-5 | Compute the GST for Business Transactions. |
|------|--|

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>MANAGEMENT ACCOUNTING</b>  |
| <b>Code</b>         | <b>18COU25/18COC27/18COE28/18AFU25/18CRM25/18BPU25/18FTU25<br/>18FSU25/18CBI25</b> |
|                     | <b>On completion of the course, students would be able to</b>                      |
| CO-1                | Install Management Accounting System in an Organization.                           |
| CO-2                | Utilize the Techniques of Financial Statement for Business Decisions.              |
| CO-3                | Prepare Funds Flow and Cash Flow Statements for Business.                          |
| CO-4                | Apply the different Techniques for Preparing of Financial Budgets.                 |
| CO-5                | Apply Marginal and Standard Costing techniques in various Business Situations.     |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Discipline Specific Elective – II<br/>GENERAL INSURANCE</b>                     |
| <b>Code</b>         | <b>18CBI26A</b>  |
|                     | <b>On completion of the course, students would be able to</b>                      |
| CO-1                | Classify the various General Insurances in India and its working and Organization. |
| CO-2                | Identify the losses in Marine and Fire Insurances and assess the Premium.          |
| CO-3                | Elaborate the types and settlement procedure in Motor and Health Insurances.       |
| CO-4                | Analyze about various Miscellaneous Insurance Schemes.                             |
| CO-5                | Interpret Social Insurance and New Insurance Schemes initiated by the Government.  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Discipline Specific Elective – II<br/>INSURANCE ENVIRONMENT</b>                |
| <b>Code</b>         | <b>18CBI26B</b>   |
|                     | <b>On completion of the course, students would be able to</b>                     |
| CO-1                | Explain about the features, scope of Insurance Act and identify policy Documents. |
| CO-2                | Identify the types of Agent and Powers, Remuneration and Code of Conduct of       |

|      |   |
|------|---|
|      | Insurance Agents.   |
| CO-3 | Recall about Reinsurance history, types and its Clauses.                              |
| CO-4 | Understand the Fundamentals of Underwriting, Product design and Pricing in Insurance. |
| CO-5 | Summarize the History, Delivery Mechanisms and Models of Micro Insurance.             |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>BANKING AND INTERNATIONAL FINANCE</b>   |
| <b>Code</b>         | <b>18CBI27</b>  |
|                     | <b>On completion of the course, students would be able to</b>                             |
| CO-1                | Describe about evolution of International Banking and International finance Centers.      |
| CO-2                | Identify the types of International Financial Institutions and Foreign Currency Accounts. |
| CO-3                | Recognize about administrative set-up of Foreign Exchange Management and its functions.   |
| CO-4                | Explain about Exchange Rate System and Balance of Payment.                                |
| CO-5                | State the participants in Foreign Exchange Market and types of transactions.              |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>RISK MANAGEMENT</b>   |
| <b>Code</b>         | <b>18CBI28</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Identify and measures the risk through Risk Management Process  |
| CO-2                | Analyze the types of Risk and role of RBI in Risk Management  |
| CO-3                | Apply theoretical Knowledge on Measurement and Management of Credit, Market, Operational and Interest Rate Risks. |
| CO-4                | Summarize the Risk Management Information System and Derivative Market.   |
| CO-5                | Recall the methods of Managing Risks and Risk Financing.  |

|               |             |
|---------------|-------------|
| <b>Course</b> | <b>Core</b> |
|---------------|-------------|

|              |   |
|--------------|---|
| <b>Title</b> | <b>ENTREPRENEURIAL DEVELOPMENT</b>                              |
| <b>Code</b>  | <b>18COU29/18COC29/18CRM29/18BPU29/18FTU29/18FSU29/18CBI29</b>  |
|              | <b>On completion of the course, students would be able to</b>   |
| CO-1         | Recall the qualities of an Entrepreneur.                        |
| CO-2         | Prepare the Feasibility Report for the business.                |
| CO-3         | Apply the Procedures for starting SSI.                          |
| CO-4         | Identify the Incentive Schemes.                                 |
| CO-5         | Utilize the Institutional Assistance for the business ventures. |

|               |  |
|---------------|--|
| <b>Course</b> | <b>Core</b>  |
| <b>Title</b>  | <b>PRACTICE WORKSHOP – III</b>   |
| <b>Code</b>   | <b>18COU30/18COC33/18COE34/18AFU30/18CRM30/18BPU30/18FTU30<br/>18FSU30/18CBI30</b> |
|               | <b>On completion of the course, students would be able to</b>                      |
| CO-1          | Analyze and prepare the Annual Report, Agenda and Minutes of a Company             |
| CO-2          | File the IT returns for a University Professor / Teacher                           |
| CO-3          | Prepare the Curriculum Vitae.  |
| CO-4          | Prepare an Advertisement Copy of a product/ service.                               |
| CO-5          | Apply the knowledge for preparing Share Trading Report and the Business Plan.      |



Since 1947

# PSG College of Arts & Science Coimbatore – 641 014

## Programme: Bcom Cost and Management Accounting

### Programme Outcomes

|      | <b>On completion of the programme, the student will be able to</b>   |
|------|--|
| PO-1 | Become knowledgeable in the field of Commerce with Cost and Management Accounting and apply the conceptual interpersonal and managerial skills for decision making in a business enterprise. |
| PO-2 | Gain analytical skills in the areas of Accounting, Finance, Taxation and related Commerce courses.   |
| PO-3 | Understand and appreciate Professional Ethics, Community Living and Nation Building Initiatives.   |
| PO-4 | Exhibit professional skills and knowledge for pursuing CA, CMA, CA and other career oriented programmes like ACMA, ACCA, CPA, CFA, MBA and related PG programmes.                            |
| PO-5 | Build competency to meet challenges for global employment.   |

### Programme Specific Outcomes

|       | <b>On completion of the programme, the student will be able</b>   |
|-------|---|
| PSO-1 | Apply the knowledge of Commerce in the domain of Cost and Management Accounting.  |
| PSO-2 | Solve the complex problems in the field of managing and controlling cost with an understanding of the societal, legal and cultural impacts. |
| PSO-3 | Demonstrates the acquired professional knowledge and skills to pursue and complete CMA professional course offered by ICAI.                 |
| PSO-4 | Form a part of member in a team with right attitude.  |

**Course Outcomes**

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>FUNDAMENTALS OF ACCOUNTING</b>  |
| <b>Code</b>         | <b>18CMA01</b>  |
|                     | <b>On completion of the course, students would be able to</b>                                   |
| CO-1                | Apply the concepts of Financial Accounting  |
| CO-2                | Prepare financial statements and practice the accounting standards                              |
| CO-3                | Rectify errors, illustrate single entry system and convert single entry to double entry system. |
| CO-4                | Apply the methods of charging depreciation.   |
| CO-5                | Create accounting for non-profit organizations and prepare reconciliation Statements            |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>FUNDAMENTALS OF LAW AND ETHICS</b>                |
| <b>Code</b>         | <b>18CMA02</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Remember the basic concepts of contract law                   |
| CO-2                | Explain the laws relating to special contract.                |
| CO-3                | Demonstrate laws relating to sale of goods.                   |
| CO-4                | Acquaint knowledge on laws relating to negotiable instruments |
| CO-5                | Apply the Ethical Codes in practice                           |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>FINANCIAL ACCOUNTING</b>                                       |
| <b>Code</b>         | <b>18CMA04</b>   |
|                     | <b>On completion of the course, students would be able to</b>              |
| CO-1                | Prepare consignment accounts and joint venture accounts.                   |
| CO-2                | Prepare accounts for sale of goods on approval basis and royalty accounts. |
| CO-3                | Adapt the accounting treatment of bills of exchange.                       |

|      |   |
|------|---|
| CO-4 | Practice accounting treatment for hire purchase of goods.               |
| CO-5 | Apply the knowledge in preparing the branch and departmental accounting |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>FUNDAMENTALS OF COST AND MANAGEMENT ACCOUNTING</b>                |
| <b>Code</b>         | <b>18CMA05</b>  |
|                     | <b>On completion of the course, students would be able to</b>                 |
| CO-1                | Understand the fundamental concepts of Cost Accounting and prepare Cost Sheet |
| CO-2                | Remember the techniques of material cost and methods of remuneration.         |
| CO-3                | Classify, allocate, apportion the overheads.                                  |
| CO-4                | Prepare and compare financial statement analysis.                             |
| CO-5                | Gain knowledge on preparation of Funds Flow and Cash Flow Statements          |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Interdisciplinary Course (IDC)<br/>BUSINESS ECONOMICS</b>      |
| <b>Code</b>         | <b>18CMA06</b>  |
|                     | <b>On completion of the course, students would be able to</b>     |
| CO-1                | Apply the conceptual and theoretical knowledge in business.       |
| CO-2                | Remember the production, cost and revenue analysis.               |
| CO-3                | Determine the equilibrium price of various forms of market.       |
| CO-4                | Demonstrate the role and functions of banks in the Indian economy |
| CO-5                | Illustrate the economic reforms in India                          |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>HIGHER FINANCIAL ACCOUNTING</b>   |
| <b>Code</b>         | <b>18CMA07</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Calculate New Profit Sharing Ratio, Sacrificing Ratio and provide treatment of Goodwill and make adjustment for undistributed Profits and Losses. |
| CO-2                | Provide accounting treatment for Retirement of Partner and calculate Settlement of dues to the retiring partner.                                  |
| CO-3                | Calculate Deceased Partner's Share and provide treatment for Joint Life Policy.   |

|      |  |
|------|--|
| CO-4 | Apply Garner Vs Murray case and prepare capital accounts when Capitals are Fluctuating/Fixed at the time of Insolvency of a Partner. |
| CO-5 | Prepare accounts of Amalgamating Firms and calculate Purchase Consideration for Sale of Partnership Firm.                            |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>DIRECT TAX – I</b>   |
| <b>Code</b>         | <b>18CMA08</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Remember the Basis of Charge, Exemptions from Total Income U/s 10, Rebate U/s 87 A and Relief U/s 89.  |
| CO-2                | Practice the Provisions relating to Allowances, Perquisites and Deductions of Income from Salaries and Compute Taxable Income from House Property. |
| CO-3                | List out the allowable Income and Expenses of Business and Calculate Professional incomes and expenses.  |
| CO-4                | Remember the provisions and Compute Capital Gains and Income from Other Sources.   |
| CO-5                | Apply the provisions for Set Off and Carry Forward of Losses and Compute Gross Total Income.   |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>FUNDAMENTALS OF FINANCIAL MANAGEMENT</b>   |
| <b>Code</b>         | <b>18CMA09</b>   |
|                     | <b>On completion of the course, students would be able to</b>                                      |
| CO-1                | Understand the functional areas of Financial Management and concepts of Value and Return of money. |
| CO-2                | Remember the techniques of Decision Making and apply the various Capital Budgeting Techniques.     |
| CO-3                | Calculate the Cost of Capital and apply the Capital Structure Theories.                            |
| CO-4                | Analyze Leverages, calculate EBIT, EPS and understand Dividend Models.                             |
| CO-5                | Prepare an estimation of Working Capital Requirement.  |

|               |             |
|---------------|-------------|
| <b>Course</b> | <b>Core</b> |
|---------------|-------------|

|              |  |
|--------------|--|
| <b>Title</b> | <b>ADVANCED COST AND MANAGEMENT ACCOUNTING</b>   |
| <b>Code</b>  | <b>18CMA10</b>   |
|              | <b>On completion of the course, students would be able to</b>  |
| CO-1         | Remember the steps of Installation of an Ideal Cost Accounting System, Cost Accounting Methods and its Types.                          |
| CO-2         | Compute Cost for Operations, Processes, and Joint and By products.   |
| CO-3         | Prepare various Types of Budgets.  |
| CO-4         | Determine BEP, P/V Ratio, Margin of Safety, understand the applications of Marginal Costing and compute Material and Labour Variances. |
| CO-5         | Demonstrate Activity Based Costing, prepare SWOT and Gap analysis.   |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Interdisciplinary Course(IDC)<br/>OPERATIONS MANAGEMENT - I</b>   |
| <b>Code</b>         | <b>18CMA11</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Understand the Scope, Challenges and Contribution of Operations Management to Business Policy Decision.        |
| CO-2                | Prepare Product Design, analyze the Process and remember the Principles, Steps, and Advantages of Forecasting. |
| CO-3                | Explain the Phases in Production Planning and Control Function and remember the Types of Production Control.   |
| CO-4                | Remember the Nature of Work Study, Techniques of Motion Study and methods of Time Study.                       |
| CO-5                | Prepare Process Charts and demonstrate the Criteria for Selection and Design of Layouts.                       |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>CORPORATE ACCOUNTING</b>   |
| <b>Code</b>         | <b>18CMA12</b>   |
|                     | <b>On completion of the course, students would be able to</b>                                      |
| CO-1                | Prepare the accounts related to Issue of Shares, Buy Back of Shares, ESOP and Issue of Debentures. |

|      |  |
|------|--|
| CO-2 | Practice the accounting treatment for Redemption of Shares, Capital Redemption Reserve, Bonus Shares and Debentures.           |
| CO-3 | Prepare Profit and Loss Appropriation Account, Balance Sheet and calculate Managerial Remuneration as per Companies Act, 2013. |
| CO-4 | Evaluate Goodwill and prepare Liquidator's Final Statement of Accounts.  |
| CO-5 | Calculate Minority Interest, Cost of Control, Capital Profit, Revenue Profit and Consolidated Balance Sheet.                   |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>INDIRECT TAX</b>   |
| <b>Code</b>         | <b>18CMA13</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Remember the Tax system prevailing in India.   |
| CO-2                | Explain about the Constitution and Structure of GST.   |
| CO-3                | Describe the registration process, documents required for registration and elaborate on revocation and cancellation of registration. |
| CO-4                | Demonstrate the types of supply, valuation rules and discuss the eligibility to claim Input Tax Credit.                              |
| CO-5                | Prepare E-Way Bill, understand the process of filing returns and refund claims under GST.  |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>INDUSTRIAL LAW</b>   |
| <b>Code</b>         | <b>18CMA14</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Illustrate the legal provisions relating to Approval, Licensing and Registration of factories.                         |
| CO-2                | Remember the Application of EPF Act, Employee Pension Scheme and Employees Deposit Linked Insurance Scheme.            |
| CO-3                | Explain the powers, functions, contributions, rules and benefits of ESI Act, 1948 and Workmen's Compensation Act, 1923 |
| CO-4                | Determine the Gratuity, compute Bonus, Available Surplus and Allocable Surplus   |

|      |   |
|------|---|
| CO-5 | Demonstrate the rules for payment of wages and deductions from wages. |
|------|---|

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>DIRECT TAX – II</b>   |
| <b>Code</b>         | <b>18CMA15</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Assess the Tax Liability of HUF, LLP and AOP.   |
| CO-2                | Compute Taxable Income of Corporate Entities, assess Tax Liability and MAT.                                 |
| CO-3                | Describe the procedures related to Tax Deductions and Collection at Source.                                 |
| CO-4                | Elaborate the e-filing procedures and prepare Tax Returns using ITR forms.                                  |
| CO-5                | Discuss about the powers and functions of CBDT and build an overall Knowledge on Income Tax Administration. |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Interdisciplinary Course (IDC)<br/>OPERATIONS MANAGEMENT – II</b>   |
| <b>Code</b>         | <b>18CMA16</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Illustrate the kinds, models, need, factors affecting productivity and role of information technology in production                |
| CO-2                | Elaborate about quality circles, quality control and demonstrate the concepts, principles and benefits of total quality management |
| CO-3                | Describe the process, planning and scheduling of maintenance and discuss the concepts of total productive maintenance              |
| CO-4                | Prepare material requirement plan, exercise material control and describe the material control cycle                               |
| CO-5                | Determine the probability of meeting schedule date in PERT Analysis and discuss the concepts of CPM networks                       |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>HIGHER CORPORATE ACCOUNTING</b>                                |
| <b>Code</b>         | <b>18CMA17</b>   |
|                     | <b>On completion of the course, students would be able to</b>              |
| CO-1                | Apply the Concepts in Accounting Treatment of Amalgamation and Absorption. |

|      |  |
|------|--|
| CO-2 | Maintain accounts based on Double Account System for Electricity Companies using Revenue, Net Revenue of Accounts. |
| CO-3 | Prepare Statement of Accounts for Banking Companies using Schedule 1 to 16 of Banking Regulation Act, 1949.        |
| CO-4 | Maintain Accounts for Insurance Companies using Schedules in IRDA Regulations.                                     |
| CO-5 | Prepare Accounting for Cinema Theatre, Hotels, Doctors, Druggists, Nursing Homes and Educational Institutions.     |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>PRINCIPLES AND PRACTICES OF AUDITING</b>  |
| <b>Code</b>         | <b>18CMA18</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Detail the fundamental concepts, classification of Auditing and understand Audit Evidence.  |
| CO-2                | Explain the contents of Audit Engagement Letter, Audit Programme, Types of Audit Working Papers, Contents of Audit Note Book, Need for Audit Evidence and importance of Audit Report. |
| CO-3                | Remember the effectiveness of Internal Control System, procedures in Internal Check and functions of Internal Audit.  |
| CO-4                | Describe the procedures in vouching of receipts, payments and verification of Assets and Liabilities.   |
| CO-5                | Elaborate about Cost Audit procedures and appointment and removal of Cost Auditors.   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>ELEMENTS OF COMPANY LAW</b>   |
| <b>Code</b>         | <b>18CMA19</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Understand the types of company and remember the procedures in formation of a company and the effects of registration.                      |
| CO-2                | Describe the contents of Memorandum of Association and Articles of Association, its legal effects and recall the liability for Misstatement |

|      |  |
|------|--|
|      | inProspectus.  |
| CO-3 | Explain the kinds of Share Capital, procedures in Issue and Redemption of Preference Shares, Alteration of Share Capital, Buy back of Shares and Debentures. |
| CO-4 | Illustrate the qualifications, appointment, resignation and removal of Directors.  |
| CO-5 | Detail about the conduct of various kinds of Meetings, Notice of Meetings and prepare Minutes of Meetings.   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>MS-EXCEL AND TALLY</b>                            |
| <b>Code</b>         | <b>18CMA20</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Perform Financial functions using MS Excel                    |
| CO-2                | Prepare Financial statements using Tally                      |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Discipline Specific Elective - I<br/>FINANCIAL MARKETS AND SERVICES IN INDIA</b>              |
| <b>Code</b>         | <b>18CMA21A</b>  |
|                     | <b>On completion of the course, students would be able to</b>                                    |
| CO-1                | Explain financial instruments, intermediaries and financial markets.                             |
| CO-2                | Discuss about the types of Money Market instruments and compare Money Market and Capital Market. |
| CO-3                | Describe the functions of New Issue Market and Public Issue.                                     |
| CO-4                | Explain the listing of securities and Stock Market index.  |
| CO-5                | Remember the various depositories and practice online trading                                    |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Discipline Specific Elective - I<br/>WORKING CAPITAL MANAGEMENT</b> |
| <b>Code</b>         | <b>18CMA21B</b>  |
|                     | <b>On completion of the course, students would be able to</b>          |
| CO-1                | Remember the basic concepts of Working Capital Requirements,           |

|      |   |
|------|---|
|      | Management, Theories and Approaches.  |
| CO-2 | Explain Financing Mix, new trends of Working Capital by Banks and measure the Working Capital.      |
| CO-3 | Demonstrate cost of maintaining Receivables and identify Factors influencing size of Receivables.   |
| CO-4 | Acquaint knowledge on Cash Flows, Cash Balances, Tools and Techniques used in Inventory Management. |
| CO-5 | Apply Working Capital Control and Techniques of Assessing Working Capital Finance.                  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>MANAGEMENT INFORMATION SYSTEM</b>   |
| <b>Code</b>         | <b>18CMA23</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Discuss about the concepts, structure and classification of Management Information System.              |
| CO-2                | Remember the Dimensions of Information, kinds of Systems, types of Signals and Communication Networks.  |
| CO-3                | Explain the Database Hierarchy, Data Models and apply the Decision Support System in decision making.   |
| CO-4                | Elaborate the System Development Stages, System Analysis and System Designs.                            |
| CO-5                | Describe the Implementation Process, Maintenance and Evaluation of MIS and Information System Security. |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>CORPORATE LAWS</b>  |
| <b>Code</b>         | <b>18CMA24</b>  |
|                     | <b>On completion of the course, students would be able to</b>               |
| CO-1                | Discuss the provisions regarding Reserve Fund and Restrictions on Loans and |

|      |   |
|------|---|
|      | Advances according to Banking Regulation Act, 1949.   |
| CO-2 | Explain about the Recognition of Stock Exchanges, functions and powers of Securities Exchange Board of India.                           |
| CO-3 | Detail the provisions in Competition Act, Anti-Competitive Agreements and Competition Commission of India.                              |
| CO-4 | Elaborate the provisions relating to Foreign Exchange Management, Authorized Persons, Realization and Repatriation of Foreign Exchange. |
| CO-5 | Recall the objectives, process of Money Laundering, Composition and Functions of Authority according to IRDA Act, 1999.                 |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>STRATEGIC MANAGEMENT</b>  |
| <b>Code</b>         | <b>18CMA25</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Remember the objectives of Business Policy Education, benefits of Strategic Management and Strategic Management Process.                    |
| CO-2                | Conduct environmental, industry, organizational and competitive analysis of Organization.   |
| CO-3                | Demonstrate the Structural, Functional and Behavioral implementation of strategies.   |
| CO-4                | Explain the nature, process of Organizational Changes and identify the factors in resistance to change and understand Innovation Diffusion. |
| CO-5                | Illustrate the concepts, barriers and techniques of Strategic Evaluation and Control.   |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>SECURITY ANALYSIS AND PORTFOLIO MANAGEMENT</b>   |
| <b>Code</b>         | <b>18CMA26</b>   |
|                     | <b>On completion of the course, students would be able to</b>                                      |
| CO-1                | Acquire adequate knowledge about types of investors, evolution and phases of Portfolio Management. |
| CO-2                | List out the types and benefits of Corporate securities and Government Securities.                 |

|      |   |
|------|---|
| CO-3 | Remember the elements and types of risks and Fundamental, Economy, Industry and Technical Analysis. |
| CO-4 | Conduct Portfolio Analysis and Construct an optimal portfolio using Capital Asset Pricing Model.    |
| CO-5 | Identify the necessity for Portfolio Revision and Portfolio Evaluation.                             |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Discipline Specific Elective -II<br/>INTERNATIONAL BUSINESS</b>   |
| <b>Code</b>         | <b>18CMA27A</b>  |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Elaborate on the stages, goals, advantages and problems of International Business and understand the International Business Environment.         |
| CO-2                | Analyze International Business, explain modes of entry and understand the concept of Foreign Direct Investment.                                  |
| CO-3                | Remember the organizational structure of World Trade Organization and explain International Trade and Administrative Policies.                   |
| CO-4                | Brief about International Financial Environment, ForeignExchange Market, Foreign Institutional Investors and about International Risk Management |
| CO-5                | List out the Export, Import Procedures and explain Ethics in International Business.   |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Discipline Specific Elective - II<br/>PROJECT MANAGEMENT</b>                          |
| <b>Code</b>         | <b>18CMA27B</b>  |
|                     | <b>On completion of the course, students would be able to</b>                            |
| CO-1                | Understand the fundamentals, process, phases and principles of Project Management.       |
| CO-2                | Remember the Types of Projects and prepare Pre-Feasibility Report.                       |
| CO-3                | Demonstrate Financial Feasibility of a Project.  |
| CO-4                | Implement Project Cost Accounting and Monitoring, and manage risks in Project Selection. |
| CO-5                | Review, control and evaluate project and prepare a Project review report.                |





Since 1947

# PSG College of Arts & Science Coimbatore – 641 014

## Programme: BCom Business Analytics

### Programme Outcomes

|      | <b>On completion of the programme, the student will be able to</b>  |
|------|---|
| PO-1 | Become knowledgeable in the field of commerce blended with Business analytics and apply the conceptual, interpersonal and managerial skills for decision making in a business enterprise. |
| PO-2 | Gain Analytical skills in the areas of Accountancy, Statistics, Mathematics and related Business Analytic Courses   |
| PO-3 | Understand and appreciate Professional Ethics, Community Living and Nation Building Initiatives.  |
| PO-4 | Exhibit skills and knowledge for pursuing competing programmes in Business Analytics and related PG programmes  |
| PO-5 | Build competency to solve the complex problems under uncertainties using advanced tools for analysis of data  |

### Programme Specific Outcomes

|       | <b>On completion of the programme, the student will be able</b>  |
|-------|--|
| PSO-1 | Apply the knowledge of Data Analytics in the domains of Marketing, Finance and Logistics to compete in the global business environment.                                |
| PSO-2 | Solve the complex problems in the field of commerce by applying the expertise in Business Analytics with an understanding of the societal, legal and cultural impacts. |
| PSO-3 | Excel in Data analytics with the integrated knowledge of Commerce, Statistics, Mathematics and Computer Science.   |
| PSO-4 | Form a part of member in a team with right attitudes.  |

### Course Outcomes

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>FINANCIAL ACCOUNTING - I</b>   |
| <b>Code</b>         | <b>18CBA01</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Recall the accounting Concepts, Conventions, Principles and Basic accounting Standards.                    |
| CO-2                | Practice Trading and Profit And Loss Account and Balance sheet of firms and Bank Reconciliation Statement. |
| CO-3                | Apply the knowledge of Accounting to record Bills of Exchange and Royalty transactions.                    |
| CO-4                | Summarize the accounting system for Consignment and Joint Venture Business                                 |
| CO-5                | Prepare accounts of Depreciation Accounting  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>STATISTICS FOR BUSINESS ANALYTICS</b>   |
| <b>Code</b>         | <b>18CBA02</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Interpret and solve real life business problems using the concepts of Statistics.   |
| CO-2                | Apply the various sampling techniques in real life business problems.   |
| CO-3                | Identify the business and economic data graphically and numerically and explain relationship between graphs and numerical data. |
| CO-4                | Organize and summarize Statistical data by using descriptive Statistics   |
| CO-5                | Predict relevant relationship between business variables using Correlation and regression analysis.                             |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>COMPUTER PRACTICAL – I (EXCEL)</b>                |
| <b>Code</b>         | <b>18CBA03</b>  |
|                     | <b>On completion of the course, students would be able to</b> |

|      |  |
|------|--|
| CO-1 | Able to use excel to create personal and/or business spreadsheet by following current professional standard. |
| CO-2 | Use skills to design and create spreadsheet  |
| CO-3 | Develop decision making skill by using what-if-analysis on spreadsheets                                      |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>FINANCIAL ACCOUNTING - II</b>   |
| <b>Code</b>         | <b>18CBA05</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Apply and Practice the Accounting Concepts and Procedures for hire purchase, installment purchase, and branch and departments related transactions. |
| CO-2                | Summarize the accounts of investments transactions.   |
| CO-3                | Submit the Fire Insurance Claims to insurance companies regarding loss of stock and loss of profit  |
| CO-4                | Apply the Knowledge of partnership accounts at the time of the admission and retirement of partners in a partnership firm.                          |
| CO-5                | Record the transactions for issue and redemption of securities by the corporate firms.  |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>APPLIED BUSINESS STATISTICS - I</b>  |
| <b>Code</b>         | <b>18CBA06</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Interpret and solve real life business problems using the concepts of Statistics.  |
| CO-2                | Appreciate the use of probability concepts, discrete and continuous probability distributions and apply them in real world problems. |
| CO-3                | Apply suitable test of significance for making decisions in hypothesis testing   |
| CO-4                | Carry out and interpret statistical data by using various non – parametric tests.  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>COMPUTER PRACTICAL II (SPSS)</b>                                |
| <b>Code</b>         | <b>18CBA07</b>  |
|                     | <b>On completion of the course, students would be able to</b>               |
| CO-1                | Use the basic functions of SPSS   |
| CO-2                | Process data and generate statistics for some demographic variable analysis |
| CO-3                | Generate graphs and diagrams for data analysis.                             |
| CO-4                | Process data and generate outputs using SPSS software                       |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>CORPORATE ACCOUNTING</b>   |
| <b>Code</b>         | <b>18CBA09</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Prepare Financial Statements of Companies as per the provisions of Companies Act, 2013.                |
| CO-2                | Apply the accounting concepts of Amalgamation, Absorption, Reconstruction and Liquidation of companies |
| CO-3                | Value the shares and goodwill of a Limited Company.  |
| CO-4                | Consolidate the accounts of Holding and Subsidiary Companies.  |
| CO-5                | Develop the Financial Statements of Banking and Insurance Companies.                                   |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>BUSINESS ORGANIZATION AND MANAGEMENT</b>                 |
| <b>Code</b>         | <b>18CBA10</b>   |
|                     | <b>On completion of the course, students would be able to</b>        |
| CO-1                | Recollect the concept and objectives of a Business.                  |
| CO-2                | Identify forms of Business Organization and Business Combinations    |
| CO-3                | Translate the Theory and Practice of Management.                     |
| CO-4                | Practicethe Organizational and Professional Leadership skills.       |
| CO-5                | Exhibit the Theories of Motivation and Controlling techniques in the |

|  |                                  |
|--|----------------------------------|
|  | competitive Business environment |
|--|----------------------------------|

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>NoSQL-MongoDB</b>   |
| <b>Code</b>         | <b>18CBA11</b>  |
|                     | <b>On completion of the course, students would be able to</b>                                   |
| CO-1                | Use skill to install and configure MongoDB.   |
| CO-2                | Practice the operators like \$gt, \$lt, \$exists and getting data in MongoDB.                   |
| CO-3                | Learn Data Analysis operations such as Field Queries, Projection queries, Limiting and Sorting. |
| CO-4                | Create and apply Find, Drop, Backup and analysing queries in MongoDB                            |
| CO-5                | Enhance the knowledge in text processing of large datasets, Map_reduce using MongoDB.           |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>APPLIED BUSINESS STATISTICS II</b>   |
| <b>Code</b>         | <b>18CBA12</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Solve and Interpret real life business problems using the concepts of Statistics.  |
| CO-2                | Analyze the data using various time series models and also forecast the future values.   |
| CO-3                | Demonstrate knowledge and understanding of index number theory and methods and be able to provide solutions to general aggregation problems. |
| CO-4                | Predict relevant relationship between business variables using Correlation and regression analysis.  |
| CO-5                | Demonstrate knowledge and understanding of the basic concepts of multivariate distributions and their related distributions                  |
| CO-6                | Carryout and interpret the results from principal component analysis and factor analysis.  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>COMPUTER PRACTICAL –III (NoSQL-MongoDB)</b>   |
| <b>Code</b>         | <b>18CBA13</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Implement on how to preprocess the file, filtering, arrays and statistical functions(mean, standard deviation, sampling). |
| CO-2                | LoadDatasets from different sources(CSV,XML).   |
| CO-3                | Enhance with Indexing, Sorting and Built-in Functions for real time Datasets.   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>ECONOMETRICS</b>  |
| <b>Code</b>         | <b>18CBA14</b>  |
|                     | <b>On completion of the course, students would be able to</b>                       |
| CO-1                | Formulate and estimate different econometric models in business problems.           |
| CO-2                | Solve and Interpret real life business problems using the concepts of econometrics. |
| CO-3                | Use appropriate tests to detect Heteroskedasticity                                  |
| CO-4                | Identify the various input - output analysis and their applications.                |
| CO-5                | Construct, test and analyze the various forecasting models in business environment. |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>COST AND MANAGEMENT ACCOUNTING</b>                          |
| <b>Code</b>         | <b>18CBA15</b>  |
|                     | <b>On completion of the course, students would be able to</b>           |
| CO-1                | Understand the significance of Cost and Management Accounting.          |
| CO-2                | Analyze Cost Control Techniques   |
| CO-3                | Identify the various methods of Cost Accounting                         |
| CO-4                | Prepare the Funds Flow and Cash Flow Statements relating to a Business. |
| CO-5                | Apply the Budgetary Control and Marginal Costing Techniques in Decision |

|  |                |
|--|----------------|
|  | Making Process |
|--|----------------|

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>LEGAL ASPECTS FOR INDIAN BUSINESS</b>  |
| <b>Code</b>         | <b>18CBA16</b>   |
|                     | <b>On completion of the course, students would be able to</b>                                  |
| CO-1                | Understand the basic Concepts relating to Legal Contracts.                                     |
| CO-2                | Formulate legal contracts in the business context.   |
| CO-3                | Analyze the legal provisions relating to Contracts of Bailment, Pledge and Contract of Agency. |
| CO-4                | Practice the law relating to Sale of Goods.  |
| CO-5                | Apply the knowledge for Negotiable Instruments and for establishing Partnership Firms          |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>STATISTICAL QUALITY CONTROL</b>  |
| <b>Code</b>         | <b>18CBA17</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Understand the philosophy and basic concepts of quality improvement.   |
| CO-2                | Demonstrate the use of various methods of statistical process control.   |
| CO-3                | Design, use and interpret control charts for attributes and variables.   |
| CO-4                | Evaluate the principles of quality management and to explain how these principles can be applied within quality management systems |
| CO-5                | Perform analysis of process capabilities   |
| CO-6                | Apply reliability analysis for real world problems.  |
| CO-7                | Get acquainted with various reliability predictions and evolution methods  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>R PROGRAMMING</b>   |
| <b>Code</b>         | <b>18CBA18</b>  |
|                     | <b>On completion of the course, students would be able to</b>                   |
| CO-1                | Learn R basic commands using vector and string manipulation.                    |
| CO-2                | Create and apply concatenation function and learn how to read a data from files |
| CO-3                | Understand and apply modes, factors and Matrices                                |
| CO-4                | Apply control statements, repetitive execution for loops, repeat and while.     |
| CO-5                | Use skill to create High-Level Plotting commands with graphics parameters..     |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>COMPUTER PRACTICAL – IV (R PROGRAMMING)</b>                               |
| <b>Code</b>         | <b>18CBA19</b>  |
|                     | <b>On completion of the course, students would be able to</b>                         |
| CO-1                | Apply statistical functions (mean, standard deviation, sampling).                     |
| CO-2                | Understand merging Datasets and subset of datasets for applying in real time example. |
| CO-3                | Implement R with Control statements and looping.                                      |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>BUSINESS ECONOMICS</b>                                  |
| <b>Code</b>         | <b>18CBA20</b>  |
|                     | <b>On completion of the course, students would be able to</b>       |
| CO-1                | Understand the role of Economics in Business.                       |
| CO-2                | Analyze various Cost Concepts.                                      |
| CO-3                | Summarize various aspects related to different Market Forms.        |
| CO-4                | Identify the role of different sectors in the growth of an Economy. |
| CO-5                | Acquaint with various macro economic factors of Indian Economy.     |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>INCOME TAX</b>   |
| <b>Code</b>         | <b>18CBA21</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Identify the Residential Status and Incidence of Taxation for various persons.   |
| CO-2                | Compute Income from Salary and House Property.   |
| CO-3                | Understand allowed and disallowed expenses relating to Profits and Gains of Business and Compute the taxable Capital Gains |
| CO-4                | Define the Income from other sources and the Deductions u/s80  |
| CO-5                | Assess the Taxable Income of Individuals.  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>LOGISTICS AND SUPPLY CHAIN MANAGEMENT</b>                 |
| <b>Code</b>         | <b>18CBA22</b>  |
|                     | <b>On completion of the course, students would be able to</b>         |
| CO-1                | Understand the significance of Logistics and Supply Chain Management. |
| CO-2                | Analyze Logistics Networks and their performance                      |
| CO-3                | Exercise Inventory Control and Manage the Vendors effectively.        |
| CO-4                | Comprehend the knowledge on MIS in Supply Chain Management.           |
| CO-5                | Identify the issues and challenges of Global Supply Chain Management. |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>BIG DATA ANALYTICS</b>  |
| <b>Code</b>         | <b>18CBA23</b>  |
|                     | <b>On completion of the course, students would be able to</b>                                       |
| CO-1                | Learn Analytical process model and its requirements.  |
| CO-2                | Implement outliers detection, Standardization Data Categorization.                                  |
| CO-3                | Understand industry examples of Big data in Line World, Database Marketers and Pioneers of Big Data |
| CO-4                | Implement market basket analysis and finding frequent item dataset.                                 |

|      |  |
|------|--|
| CO-5 | Apply Crowd Sourcing Analytics and Firewall Analytics. |
|------|--|

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>ACTUARIAL STATISTICS</b>  |
| <b>Code</b>         | <b>18CBA24</b>  |
|                     | <b>On completion of the course, students would be able to</b>               |
| CO-1                | Understand the basic probability and calculation methods of interest rates. |
| CO-2                | Define the annuities and its calculations.                                  |
| CO-3                | Construct the mortality tables.   |
| CO-4                | Calculate the insurance premiums.   |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Discipline Specific Elective - I<br/>FINANCIAL MANAGEMENT TECHNIQUES</b>                        |
| <b>Code</b>         | <b>18CBA25A</b>  |
|                     | <b>On completion of the course, students would be able to</b>                                      |
| CO-1                | Understand the basic concepts of Financial Management.   |
| CO-2                | Apply the knowledge of Techniques of Financial Statement Analysis.                                 |
| CO-3                | Evaluate and identify the Best Investment Alternatives.  |
| CO-4                | Measure Specific Cost of Capital and frame Optimum Capital Structure of the Business Organization. |
| CO-5                | Understand the significance of Working Capital for an organisation.                                |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Discipline Specific Elective - I<br/>WORKING CAPITAL MANAGEMENT</b> |
| <b>Code</b>         | <b>18CBA25B</b>  |
|                     | <b>On completion of the course, students would be able to</b>          |
| CO-1                | Develop knowledge on the Basic Concepts of Working Capital management  |
| CO-2                | Identify the various sources of Working Capital Finance                |
| CO-3                | Understand the various dimensions of Receivables Management            |
| CO-4                | Apply the various techniques of Cash and Inventory Management          |
| CO-5                | Adapt to the new system of assessment of Working Capital Finance       |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>FUNDAMENTALS OF BANKING AND INSURANCE</b>                                 |
| <b>Code</b>         | <b>18CBA27</b>  |
|                     | <b>On completion of the course, students would be able to</b>                         |
| CO-1                | Identify various functions of banking companies in India                              |
| CO-2                | Understand the significance of KYC norms.   |
| CO-3                | Analyze the various innovative services offered by the Banks.                         |
| CO-4                | Describe the principles and terms of Insurance.                                       |
| CO-5                | Comprehend the knowledge on various products of Life Insurance and Non-Life Insurance |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>MARKETING AND MARKETING RESEARCH</b>                                  |
| <b>Code</b>         | <b>18CBA28</b>  |
|                     | <b>On completion of the course, students would be able to</b>                     |
| CO-1                | Understand the role of Marketing in the competitive Business World                |
| CO-2                | Identify appropriate Product and Pricing Policies                                 |
| CO-3                | Apply the knowledge of Promotional Strategies and Consumer Behavior.              |
| CO-4                | Develop knowledge on Marketing Research Process                                   |
| CO-5                | Analyze the Data with appropriate statistical tools and draft the Research Report |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>DATA ANALYSIS USING SPSS</b>                                     |
| <b>Code</b>         | <b>18CBA29</b>   |
|                     | <b>On completion of the course, students would be able to</b>                |
| CO-1                | Use the basic functions of SPSS  |
| CO-2                | Process data and generate statistics for some demographic variable analysis. |
| CO-3                | Generate graphs and diagrams for data analysis.                              |

|      |  |
|------|--|
| CO-4 | Process data and generate outputs using SPSS software. |
|------|--|

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>DATA MINING AND BUSINESS INTELLIGENCE</b>               |
| <b>Code</b>         | <b>18CBA30</b>  |
|                     | <b>On completion of the course, students would be able to</b>       |
| CO-1                | Learn concepts of BI, Data marts and trends in data warehousing.    |
| CO-2                | Define schemas and Cubes to the real time datasets.                 |
| CO-3                | Define schemas and Cubes to the real time datasets.                 |
| CO-4                | Implement market basket analysis and to find frequent item dataset. |
| CO-5                | Create real time applications using data mining techniques.         |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>STRATEGIC MANAGEMENT</b>  |
| <b>Code</b>         | <b>18CBA31</b>  |
|                     | <b>On completion of the course, students would be able to</b>                                     |
| CO-1                | Build knowledge on the concepts of Strategic Management.  |
| CO-2                | Formulate the organizational Vision, Mission and objectives.                                      |
| CO-3                | Develop Strategies for Implementation.  |
| CO-4                | Identify the key issues affecting Organizational Changes and support better Innovative Practices. |
| CO-5                | Understand the Strategic Evaluation and Control Process.  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>COMPUTER PRACTICAL V<br/>(DATA MINING AND BUSINESS INTELLIGENCE)</b>      |
| <b>Code</b>         | <b>18CBA32</b>  |
|                     | <b>On completion of the course, students would be able to</b>                         |
| CO-1                | Implement Benchmark algorithms (clustering and classification) to real time Datasets. |
| CO-2                | Use supervised and unsupervised filters to find a file.                               |

|      |  |
|------|--|
| CO-3 | Apply Clustering rule and classification rule for patient and vehicle dataset. |
|------|--|

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Discipline Specific Elective – II<br/>SECURITY ANALYSIS AND PORTFOLIO MANAGEMENT</b>    |
| <b>Code</b>         | <b>18CBA34A</b>  |
|                     | <b>On completion of the course, students would be able to</b>                              |
| CO-1                | Understand the concepts of Security Analysis and Portfolio Management.                     |
| CO-2                | Identify and analyze various Investment Avenues.   |
| CO-3                | Apply the knowledge of various Techniques in Measuring the Risk and Return on Investments. |
| CO-4                | Create and manage a Portfolio.   |
| CO-5                | Analyze and evaluate Portfolio Performance and Portfolio Revision.                         |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Discipline Specific Elective – II<br/>PRIMARY MARKET AND SECONDARY MARKET</b> |
| <b>Code</b>         | <b>18CBA34B</b>  |
|                     | <b>On completion of the course, students would be able to</b>                    |
| CO-1                | Identify the various Investment avenues.   |
| CO-2                | Understand the functioning of Financial Markets And Commodity Markets.           |
| CO-3                | Describe the Functions of Stock Exchange   |
| CO-4                | Translate the Legal aspects of Stock market operations                           |
| CO-5                | Apply the Knowledge of Stock Market Operations                                   |



Since 1947

# PSG College of Arts & Science Coimbatore – 641 014

## Programme: BVoc Hospitality Management

### Programme Outcomes

|      | On completion of the programme, the student will be able to  |
|------|--|
| PO-1 | Become knowledgeable in the subject of Hospitality Management and apply the principles of the same to the needs of the Employer / Institution /own Business or Enterprise. |
| PO-2 | Gain Analytical skills in the field/area of Hotel and Food service industry.   |
| PO-3 | Understand and appreciate professional ethics, community living and Nation Building initiatives.   |
| PO-4 | Integrated Theory and Practical knowledge towards skill development.   |
| PO-5 | Training in all sectors of Hospitality industry to have a wide exposure.   |
| PO-6 | To create employability to the students at different levels during their course of study.  |
| PO-7 | Focus towards development of multi-skilled professionals in the competitive Hospitality environment.   |

### Programme Specific Outcomes

|       | On completion of the programme, the student will be able   |
|-------|--|
| PSO-1 | Apply the knowledge of Hotel Operations and Training skills in the domain of Hospitality Management.   |
| PSO-2 | Solve the complex problems in the field of Hospitality Management with an understanding of the societal, legal and cultural impacts of the solution. |
| PSO-3 | More exposure on practical skills, enhanced with continuous outdoor exposure and industrial training.  |
| PSO-4 | Form a part of member in a team with right attitudes.  |

### Course Outcomes

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>THEORY OF COOKERY -I</b>   |
| <b>Code</b>         | <b>18HMB01</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Understand the hierarchy of the kitchen and know the duties and responsibilities of staff at different levels.                                   |
| CO-2                | Identify different equipments and their safe usage in the kitchen.   |
| CO-3                | Familiarize the basic concepts and techniques of cookery.  |
| CO-4                | Identify types of vegetables, meat and focus on the importance of commodities like cereals, pulses, cheese etc. and know their usage in kitchen. |
| CO-5                | Comprehend various types of stocks, soups, sauces and salads and their applications in cooking.  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>FOOD AND BEVERAGE SERVICE-I</b>   |
| <b>Code</b>         | <b>18HMB02</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Develop a wide knowledge about the food service industry and food service staff.                            |
| CO-2                | List the common types of food service equipments found in restaurants.                                      |
| CO-3                | Implement the styles of service and familiarize with compilation of menu in different food service outlets. |
| CO-4                | To prepare the restaurant, take order from the guest and follow the billing procedures.                     |
| CO-5                | Familiarize the types of non-alcoholic beverages.   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>COMPUTERS FOR HOSPITALITY INDUSTRY</b>            |
| <b>Code</b>         | <b>18HMB03</b>  |
|                     | <b>On completion of the course, students would be able to</b> |

|      |  |
|------|--|
| CO-1 | Operate a computer and browse information in internet  |
| CO-2 | Format a document in MS-word, basic calculations in MS-excel, a presentation in MS-PowerPoint and a database in MS-Access. |
| CO-3 | Handle reservation enquiry, take reservation and maintain various records through computer                                 |
| CO-4 | Manage guest accounts and room status through computer.  |
| CO-5 | Work with POS modules and food and beverage terminals.   |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Interdisciplinary Course<br/>TOURISM AND HOSPITALITY MANAGEMENT</b>                 |
| <b>Code</b>         | <b>18HMB04</b>   |
|                     | <b>On completion of the course, students would be able to</b>                          |
| CO-1                | Demonstrate knowledge of the history of the lodging and hospitality industry.          |
| CO-2                | Describe the role of the travel and tourism industry and its developments.             |
| CO-3                | To familiarize with tourism transport sector and to work in an organized Travelagency. |
| CO-4                | Execute the various travel formalities and regulations pertaining tourism industry.    |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>THEORY OF COOKERY - II</b>  |
| <b>Code</b>         | <b>18HMB05</b>  |
|                     | <b>On completion of the course, students would be able to</b>                         |
| CO-1                | Explain the basic concepts and techniques of Indian Cuisine.                          |
| CO-2                | To gain expertise with the commodities, spices and equipments used in Indian cookery. |
| CO-3                | To examine the different food cultures of Asian countries.                            |
| CO-4                | To explore the dishes from India and Oriental cuisines.                               |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>FOOD AND BEVERAGE SERVICE-II</b>  |
| <b>Code</b>         | <b>18HMB06</b>  |
|                     | <b>On completion of the course, students would be able to</b>                         |
| CO-1                | Prepare restaurants for service of various types of meals.                            |
| CO-2                | Demonstrate the process involved in room service department.                          |
| CO-3                | Apply the procedure involved in the preparation of food in Gueridon Service.          |
| CO-4                | Acquire in-depth knowledge about specialized forms of service.                        |
| CO-5                | Develop the qualities of supervision needed for food and beverage service department. |
| CO-6                | Deal with complaints, accidents and to know how to develop customer relationship.     |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Interdisciplinary Course<br/>TOURISM OPERATIONS</b>  |
| <b>Code</b>         | <b>18HMB07</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Analyze and understand the role of marketing and its applications in a hospitality and tourism industry |
| CO-2                | Prepare an itinerary for tourists to their area.  |
| CO-3                | To understand the importance and significance of tourism products                                       |

|      |   |
|------|---|
| CO-4 | Exhibit relevant skills and knowledge in tourism pricing and promotion. |
|------|---|

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>FAST FOOD AND PANTRY OPERATION PRACTICAL</b>                            |
| <b>Code</b>         | <b>18HMB08</b>  |
|                     | <b>On completion of the course, students would be able to</b>                       |
| CO-1                | Execute the Kitchen standards and safety.   |
| CO-2                | Familiarize with the commodities and equipments used in kitchen.                    |
| CO-3                | Demonstrate their creativity in preparation of popular fast foods around the globe. |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>FOOD AND BEVERAGE SERVICE PRACTICAL</b>                             |
| <b>Code</b>         | <b>18HMB09</b>  |
|                     | <b>On completion of the course, students would be able to</b>                   |
| CO-1                | Demonstrate the basic technical and handling skills of food service equipments. |
| CO-2                | Compile a five course menu and do the service of dishes.                        |
| CO-3                | Prepare restaurants for service of various types of meals.                      |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>INTERNSHIP TRAINING</b>  |
| <b>Code</b>         | <b>18HMB10</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Effectively adapt to the work environment and get acquainted to work in teams.                                     |
| CO-2                | Equip the students with the necessary skills that intensify their job acumen.                                      |
| CO-3                | Understanding of the importance of sustainability and set the stage for future recruitment by potential employers. |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>ALCOHOLIC BEVERAGES - I</b> |
|---------------------|---|

|             |   |
|-------------|---|
| <b>Code</b> | <b>18HMB11</b>  |
|             | <b>On completion of the course, students would be able to</b>       |
| CO-1        | Describe the preparation and categorization of alcoholic beverages. |
| CO-2        | Familiarize with the grape & wine varieties.                        |
| CO-3        | Discuss the process of wine production.                             |
| CO-4        | Have insight knowledge about wine producing regions.                |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>FOOD AND BEVERAGE MANAGEMENT</b>                                      |
| <b>Code</b>         | <b>18HMB12</b>  |
|                     | <b>On completion of the course, students would be able to</b>                     |
| CO-1                | Identify the major functions and basic principles of Food and Beverage Management |
| CO-2                | Prepare and meet the challenges associated with The Food And Beverage Operation.  |
| CO-3                | Apply the fundamentals of Food and Beverage Management and Control.               |
| CO-4                | Develop cost control by using budgeting   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>FRONT OFFICE OPERATIONS</b>   |
| <b>Code</b>         | <b>18HMB13</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Familiarize with various classifications of hotels and different types of rooms                                 |
| CO-2                | Describe the importance of Front Office Department  |
| CO-3                | Apply checkout procedure and settlement of bills in the industry  |
| CO-4                | Develop procedures regarding hotel safety and security, with particular emphasis on key control and emergencies |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>FOOD SCIENCE, SAFETY AND HYGIENE</b>              |
| <b>Code</b>         | <b>18HMB14</b>  |
|                     | <b>On completion of the course, students would be able to</b> |

|      |  |
|------|--|
| CO-1 | Apply ethical reasoning within the discipline of food science, nutrition and dietetics |
| CO-2 | Identify the principles of preservation and optimize on food safety                    |
| CO-3 | Practice personal hygiene and work place hygiene.                                      |
| CO-4 | Appreciate the importance of safety at work place and follow them.                     |
| CO-5 | Recognize the elements of the Hazard Analysis  |

|               |  |
|---------------|--|
| <b>Course</b> | <b>Core</b>  |
| <b>Title</b>  | <b>FRONT OFFICE OPERATIONS PRACTICAL</b>   |
| <b>Code</b>   | <b>18HMB16</b>   |
|               | <b>On completion of the course, students would be able to</b>  |
| CO-1          | Understand the role and function of Front Office.  |
| CO-2          | Have a basic understanding of customer service and the confidence level to handle customer complaints. |
| CO-3          | Familiarize to articulate with guest complaints.   |
| CO-4          | Know how to deal with guest requests during their stay.  |

|               |   |
|---------------|---|
| <b>Course</b> | <b>Core</b>   |
| <b>Title</b>  | <b>ALCOHOLIC BEVERAGES - II</b>   |
| <b>Code</b>   | <b>18HMB17</b>  |
|               | <b>On completion of the course, students would be able to</b>                         |
| CO-1          | Familiarize the brewing process and various types of beer.                            |
| CO-2          | Optimize knowledge about production, styles and brands of various distilled Beverages |
| CO-3          | Describe the types of liqueurs.   |
| CO-4          | Identify different types of cocktails and mocktails.                                  |

|               |   |
|---------------|---|
| <b>Course</b> | <b>Core</b>   |
| <b>Title</b>  | <b>HUMAN RESOURCE MANAGEMENT</b>                              |
| <b>Code</b>   | <b>18HMB18</b>  |
|               | <b>On completion of the course, students would be able to</b> |

|      |  |
|------|--|
| CO-1 | Apply HR strategies and policies in current organizational scenario                    |
| CO-2 | Formalize, design and evaluate various recruitment and placement Policies.             |
| CO-3 | Develop and design a training and development program with effective appraisal method. |
| CO-4 | Evaluate competency-based pay and other current trends in compensation.                |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core FACILITIES MANAGEMENT</b>  |
| <b>Code</b>         | <b>18HMB19</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Develop strategic business directions and prepare strategic facilities management plans  |
| CO-2                | Identify steps in designing a commercial kitchen   |
| CO-3                | Attain a systematic, extensive and comparative understanding of the design and space requirement for good, food service operations |
| CO-4                | Critically analyze the quality and performance of the equipments   |
| CO-5                | Relate facilities management functions and practice to the effectiveness of core financial operations of business organisations    |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core ACCOMMODATION OPERATION</b>                                    |
| <b>Code</b>         | <b>18HMB20</b>   |
|                     | <b>On completion of the course, students would be able to</b>          |
| CO-1                | Describe the role of housekeeping department in hotel operations       |
| CO-2                | Develop competencies in handling control desk and guest room services. |
| CO-3                | Gain expertise on usage of cleaning equipments and agents.             |
| CO-4                | Establish the knowledge of linen room and laundry procedures.          |
| CO-5                | Apply the skills in preparation of flower arrangement.                 |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>BEVERAGE SERVICE PRACTICAL</b>                     |
| <b>Code</b>         | <b>18HMB22</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Compile a menu with wine suggestions                           |
| CO-2                | Demonstrate on order taking and food service methods.          |
| CO-3                | Have insight about service temperature of alcoholic Beverages. |
| CO-4                | Innovate various types of cocktail and mocktails.              |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>ACCOMMODATION OPERATION PRACTICAL</b>   |
| <b>Code</b>         | <b>18HMB23</b>  |
|                     | <b>On completion of the course, students would be able to</b>                                 |
| CO-1                | Interpret the various cleaning procedures involved in the Housekeeping department             |
| CO-2                | Perform the bed making procedure, room cleaning; replenish the guest room supplies and linen. |
| CO-3                | Able to do the different types of floral arrangement.   |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>INTERNSHIP TRAINING</b>  |
| <b>Code</b>         | <b>18HMB24</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Effectively adapt to the work environment and get acquainted to work in teams                                      |
| CO-2                | Equip the students with the necessary skills that intensify their job acumen                                       |
| CO-3                | Understanding of the importance of sustainability and set the stage for future recruitment by potential employers. |

|                     |                                  |
|---------------------|----------------------------------|
| <b>Course Title</b> | <b>Core<br/>EVENT MANAGEMENT</b> |
| <b>Code</b>         | <b>18HMB25</b>                   |

|      | <b>On completion of the course, students would be able to</b> |
|------|---|
| CO-1 | Identify the characteristics and types of event.              |
| CO-2 | Restate the concept and visual elements of an event.          |
| CO-3 | Review the event promotion and advertising.                   |
| CO-4 | Express the process of Evacuation after the event.            |

| <b>Course Title</b> | <b>Core<br/>BAR MANAGEMENT</b>  |
|---------------------|---|
| <b>Code</b>         | <b>18HMB26</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Illustrate the different types of bar organizational chart and discuss the role of the various Beverage positions |
| CO-2                | Highlight the duties and responsibilities of bar staff.   |
| CO-3                | Identify the various Beverage Service equipment and tools   |
| CO-4                | Manage cellar operations in the hotel industry  |
| CO-5                | Prepare standard cocktail recipes based on international standards  |

| <b>Course Title</b> | <b>Core<br/>RESTAURANT OPERATIONS</b>                                    |
|---------------------|--|
| <b>Code</b>         | <b>18HMB27</b>   |
|                     | <b>On completion of the course, students would be able to</b>            |
| CO-1                | Discuss the future trends in food service industry.                      |
| CO-2                | Design the restaurant layout.  |
| CO-3                | Distinguish the restaurant operation styles.                             |
| CO-4                | Identify the selecting criteria for purchase of food service equipments. |
| CO-5                | Prepare the restaurant Mise-en-place and Mise-en-Scene activities        |

| <b>Course Title</b> | <b>Core<br/>LIFE COPING SKILLS</b>                            |
|---------------------|---|
| <b>Code</b>         | <b>18HMB28</b>  |
|                     | <b>On completion of the course, students would be able to</b> |

|      |  |
|------|--|
| CO-1 | Depict Self Esteem as a personal trait that can improve the Personality of a person. |
| CO-2 | Transform negative feelings and situations toward positive growth.                   |
| CO-3 | Inculcate the habit of Goal setting to attain success in their career.               |
| CO-4 | Demonstrate a strategy for using skills in problem solving                           |
| CO-5 | Apply effective time management skills and plan activities in a smarter way          |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Discipline Specific Elective Course - I<br/>INTERIOR DESIGNING</b>  |
| <b>Code</b>         | <b>18HMB29A</b>  |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Recognize the elements and principles of design and their applications.  |
| CO-2                | Identify the physical and psychological aspects of design.   |
| CO-3                | Sketch and visualize the concepts in planning Hotel designs.   |
| CO-4                | Demonstrate competency in color theories, perception, and the psychological and emotional responses to color and light |
| CO-5                | Identify the flooring and wall covering that matches up the right décor.   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Discipline Specific Elective Course - I<br/>FLOWER ARRANGEMENT</b>               |
| <b>Code</b>         | <b>18HMB29B</b>   |
|                     | <b>On completion of the course, students would be able to</b>                       |
| CO-1                | Compare the types of flowers and foliage used in commercial floriculture            |
| CO-2                | Describe the procedures for the proper care and handling of cut flowers and foliage |
| CO-3                | Restate the visual elements and the rules for the floral arrangement                |
| CO-4                | Express the techniques involved in horticulture                                     |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>BAKERY AND PATISSERIE PRACTICAL</b>                         |
| <b>Code</b>         | <b>18HMB30</b>  |
|                     | <b>On completion of the course, students would be able to</b>           |
| CO-1                | Identify and learn the usage of bakery ingredients, equipment and tools |

|      |  |
|------|--|
| CO-2 | Weigh and measure ingredients to meet the needs of standardized recipe and better products |
| CO-3 | Get acquainted with the preparation of baked products                                      |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>HOTEL ENGINEERING PRACTICAL</b>                   |
| <b>Code</b>         | <b>18HMB31</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Use multi meter to measure various electrical units.          |
| CO-2                | Assemble basic plumbing and LPG fitting.                      |
| CO-3                | Operate different type of fire fighting equipments            |
| CO-4                | Assemble components of computer and audio/video equipments    |
| CO-5                | Troubleshoot various electrical items                         |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>PRINCIPLES OF MANAGEMENT</b>  |
| <b>Code</b>         | <b>18HMB32</b>  |
|                     | <b>On completion of the course, students would be able to</b>                                     |
| CO-1                | Explain the importance of Management and its approach towards the success of any organisation.    |
| CO-2                | Evaluate the global context for taking managerial actions of planning, organizing and controlling |
| CO-3                | Demonstrate the Management Objectives by facilitating good communication skills                   |
| CO-4                | Recognize the importance of employee motivation and good leadership qualities.                    |
| CO-5                | Analyse the effects of intellectual property rights on society as a whole                         |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>CUSTOMER RELATIONSHIP MANAGEMENT</b>              |
| <b>Code</b>         | <b>18HMB33</b>  |
|                     | <b>On completion of the course, students would be able to</b> |

|      |  |
|------|--|
| CO-1 | Identify the business processes with customer strategies and concepts                          |
| CO-2 | Take part in CRM processes to identify the best customers, to generate quality sales           |
| CO-3 | Methodologies and tools that help businesses manage customer relationships in an organized way |
| CO-4 | Make efforts to build customer loyalty and increase profits                                    |
| CO-5 | Integrate CRM technology with CRM process for better market communication and sales force use  |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>SALES AND MARKETING</b>  |
| <b>Code</b>         | <b>18HMB34</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Leverage new ideas in marketing strategies   |
| CO-2                | Perform a market segmentation analysis, identify the organization's target market/audience and define the consumer behavior of each segment. |
| CO-3                | Rethink, retool and refine the sales process   |
| CO-4                | Develop an advertising plan and present and defend it persuasively   |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Discipline Specific Elective Course - II<br/>SOFT SKILL DEVELOPMENT</b>   |
| <b>Code</b>         | <b>18HMB35A</b>  |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Analyze their strengths and weaknesses so that they are able to grasp the true essence of development                          |
| CO-2                | Take part effectively in various team building and Leadership Activities   |
| CO-3                | Enhance their career visioning and planning, effective resume writing and dealing with placement consultants and head-hunters. |

|               |   |
|---------------|---|
| <b>Course</b> | <b>Discipline Specific Elective Course - II</b> |
|---------------|---|

|              |   |
|--------------|---|
| <b>Title</b> | <b>ENTERPRENEURSHIP DEVELOPMENT</b>                           |
| <b>Code</b>  | <b>18HMB35B</b>   |
|              | <b>On completion of the course, students would be able to</b> |
| CO-1         | Identify the major factors affecting Entrepreneurship.        |
| CO-2         | Generate new creative Ideas                                   |
| CO-3         | Value the product to make it success.                         |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>COMPUTER PRACTICAL</b>   |
| <b>Code</b>         | <b>18HMB36</b>   |
|                     | <b>On completion of the course, students would be able to</b>              |
| CO-1                | Draft, design and send a document to customers                             |
| CO-2                | Search, add, modify customers information in a database application        |
| CO-3                | Handle computerized reservation, check-in and check-out efficiently        |
| CO-4                | Take food and beverage orders and settle the bills                         |
| CO-5                | Analyze different types of food and beverage service reports and summaries |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>INTERNSHIP TRAINING</b>   |
| <b>Code</b>         | <b>18HMB37</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Effectively adapt to the work environment and get acquainted to work in teams.                                    |
| CO-2                | Equip the students with the necessary skills that intensify their job acumen                                      |
| CO-3                | Understanding of the importance of sustainability and set the stage for future recruitment by potential employers |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Generic Elective Course<br/>FUNDAMENTAL OF TOURISM</b>     |
| <b>Code</b>         | <b>18GECHMB</b>   |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Understand the basic components of tourism                    |
| CO-2                | Comprehend various types of sectors available in tourism      |

CO-3

Identify different between the travel agent and tour operator.



Since 1947

# PSG College of Arts & Science Coimbatore – 641 014

## Programme: BVoc Food Processing Technology

### Programme Outcomes

|      | <b>On completion of the programme, the student will be able to</b>   |
|------|--|
| PO-1 | Become knowledgeable in the subject of Food Processing Technology and apply the principles of the same to the needs of the Society   |
| PO-2 | Gain Analytical skills in the field of Food Processing Technology  |
| PO-3 | Understand and appreciate professional ethics, community living and Nation Building initiatives  |
| PO-4 | Become capable to start – up their own enterprise and serve as recognized experts for government institutions, consulting firms, national and international organizations  |
| PO-5 | Pursue career as food technologists in fields such as processed food production, food quality control, new product development, food storage, food and bio – wasteprocessing   |
| PO-6 | Continue their professional development by enrolling in advanced degree programme in related fields  |
| PO-7 | Satisfy the job role of Squash and Juice Processing Technician (NSQF Level 4), Milling Technician (NSQF Level 5), Quality Assurance Manager (NSQF Level 6) and Production Manager (NSQF Level 7) framed by National Skill Development Corporation (NSDC) |

### Programme Specific Outcomes

|       | <b>On completion of the programme, the student will be able</b>                                |
|-------|--|
| PSO-1 | Apply the knowledge of processing and preservation in the domain of Food Processing Technology |

|       |  |
|-------|--|
| PSO-2 | Solve the complex problems in the field of Food Processing Technology with an understanding of the societal, legal and cultural impacts of the solution  |
| PSO-3 | To be an innovative frontier in the field of food processing technology by designing the process, developing and analysing food products that are technically feasible, economically viable and socially acceptable. |
| PSO-4 | Expertise in machine operation pertaining to food processing industries.   |

### Course Outcomes

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>FOOD PROCESSING AND PRESERVATION</b>                                |
| <b>Code</b>         | <b>18FPB01</b>  |
|                     | <b>On completion of the course, students would be able to</b>                   |
| CO-1                | Outline the causes for food deterioration                                       |
| CO-2                | Apply food preservation techniques in pilot scale production of processed foods |
| CO-3                | Recognize and relate the use of non thermal processing in food processing       |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>FRUIT AND VEGETABLE PROCESSING TECHNOLOGY</b>   |
| <b>Code</b>         | <b>18FPB02</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Appraise the knowledge on handling techniques and selection of fruits and vegetables  |
| CO-2                | Develop proficiency skill in producing different processed fruits and vegetable food products in compliance with FSSAI standards        |
| CO-3                | Analyze the quality of different fruits and vegetable products like canned pulp, jam, jelly, fruit beverages, pickle, sauce and ketchup |

|                     |                              |
|---------------------|------------------------------|
| <b>Course Title</b> | <b>Core<br/>FOOD SCIENCE</b> |
|---------------------|------------------------------|

|             |  |
|-------------|--|
| <b>Code</b> | <b>18FPB03</b>   |
|             | <b>On completion of the course, students would be able to</b>                                    |
| CO-1        | Incorporate the basic principles of food science in real life situations                         |
| CO-2        | Review the composition and changes occurring in various food constituents as a result of cooking |
| CO-3        | Demonstrate the different methods of cooking and formulates various food preparations            |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Interdisciplinary Course<br/>CHEMISTRY I</b>                     |
| <b>Code</b>         | <b>18FPB04</b>  |
|                     | <b>On completion of the course, students would be able to</b>       |
| CO-1                | Handle chemicals and solvents safely                                |
| CO-2                | Comprehend the knowledge of chemical bonding and physical chemistry |
| CO-3                | Illustrate the properties of alkaloids and pigments                 |
| CO-4                | Explain the properties of different polymers                        |
| CO-5                | Summarize the effect of pesticides                                  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>FRUIT AND VEGETABLE PROCESSING TECHNIQUES PRACTICAL</b> |
| <b>Code</b>         | <b>15FPB05</b>  |
|                     | <b>On completion of the course, students would be able to</b>       |
| CO-1                | Scale up the production of different fruit based product            |
| CO-2                | Produce indigenous fruit and vegetable products                     |
| CO-3                | Design and develop novel fruit and vegetable products               |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Interdisciplinary Course<br/>CHEMISTRY PRACTICAL</b>       |
| <b>Code</b>         | <b>18FPB06</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Perform simple volumetric titrations                          |

|      |  |
|------|--|
| CO-2 | Demonstrate the ability to analyze the various organic and inorganic compounds |
|------|--|

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>GRAIN TECHNOLOGY</b>                                    |
| <b>Code</b>         | <b>18FPB07</b>  |
|                     | <b>On completion of the course, students would be able to</b>       |
| CO-1                | Describe the milling process of the cereal, pulses and oilseeds     |
| CO-2                | Outline the working of machineries involved in grain processing     |
| CO-3                | Recognize suitable processing technique for new product development |
| CO-4                | Select suitable by-product for value addition                       |
| CO-5                | Identify suitable preventive measures to control insect infestation |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>BAKERY AND CONFECTIONERY</b>                                  |
| <b>Code</b>         | <b>18FPB08</b>  |
|                     | <b>On completion of the course, students would be able to</b>             |
| CO-1                | Explain the role of ingredients in baking process                         |
| CO-2                | Apply the concept of baking and formulate new products                    |
| CO-3                | Demonstrate the skill for preparation of different confectionery products |
| CO-4                | Start – up a bakery unit  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>UNIT OPERATIONS IN FOOD PROCESSING</b>  |
| <b>Code</b>         | <b>18FPB09</b>  |
|                     | <b>On completion of the course, students would be able to</b>                                     |
| CO-1                | Describe the food processing in terms of unit operations both conceptually and in the pilot plant |
| CO-2                | Define unit operation and able to develop a total process line                                    |
| CO-3                | Demonstrate the ability to identify appropriate techniques needed for food production             |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Interdisciplinary Course<br/>CHEMISTRY II</b>                   |
| <b>Code</b>         | <b>18FPB10</b>   |
|                     | <b>On completion of the course, students would be able to</b>      |
| CO-1                | Explain sampling procedure and purification techniques             |
| CO-2                | Illustrate the separation techniques                               |
| CO-3                | Comprehend the knowledge of food additives and preservatives       |
| CO-4                | Demonstrate the type of pollutants and methods of waste management |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>BAKERY AND CONFECTIONERY PRACTICAL</b>  |
| <b>Code</b>         | <b>18FPB11</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Produce and present a variety of bakery, pastry and confectionery products                                  |
| CO-2                | Perform equipment maintenance, sanitation and food safety practice  |
| CO-3                | Work professionally, independently and collaboratively in a baking, pastry and/or confectionery environment |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>EQUIPMENT OPERATION AND TECHNIQUES IN FOOD<br/>PROCESSING</b> |
| <b>Code</b>         | <b>18FPB12</b>  |
|                     | <b>On completion of the course, students would be able to</b>             |
| CO-1                | Operate various food processing equipment                                 |
| CO-2                | Identify the driers for specific agricultural produce                     |
| CO-3                | Evaluate the efficiency of milling equipment                              |
| CO-4                | Demonstrate the working principle of various high temperature equipment   |
| CO-5                | Utilize food packaging machineries for packing of different products      |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>FOOD MICROBIOLOGY</b>  |
| <b>Code</b>         | <b>18FPB14</b>   |
|                     | <b>On completion of the course, students would be able to</b>                      |
| CO-1                | Classify the microorganisms and their role in food processing                      |
| CO-2                | Understand the concepts of spoilage and techniques of preventing spoilage in foods |
| CO-3                | Identify the organism and methods of inactivating the microorganisms               |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>EXTRUDED AND CONVENIENCE FOODS</b>                |
| <b>Code</b>         | <b>18FPB15</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Apply knowledge to develop extruded products                  |
| CO-2                | Analyze the quality parameters of extruded products           |
| CO-3                | Identify the market for the convenience foods                 |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>FOOD CHEMISTRY</b>  |
| <b>Code</b>         | <b>18FPB16</b>  |
|                     | <b>On completion of the course, students would be able to</b>             |
| CO-1                | Describe major food chemical reactions and their mechanisms               |
| CO-2                | Explain the physical and chemical properties of macro and micro nutrients |
| CO-3                | Analyze and interpret the role of food chemistry in food production       |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>HYGIENE AND SANITATION</b>                                      |
| <b>Code</b>         | <b>18FPB17</b>  |
|                     | <b>On completion of the course, students would be able to</b>               |
| CO-1                | Recognize the importance hygiene and sanitation in a food industry premises |

|      |  |
|------|--|
| CO-2 | Control pests infestation effectively                            |
| CO-3 | Demonstrate the proper procedures of waste disposal and cleaning |
| CO-4 | Design an employee sanitation-training program.                  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>EXTRUDED AND CONVENIENCE FOOD PRACTICAL</b>       |
| <b>Code</b>         | <b>18FPB19</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Produce value added extruded products                         |
| CO-2                | Market the developed convenience foods                        |
| CO-3                | Design and develop products for large scale production        |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>FOOD CHEMISTRY PRACTICAL</b>                      |
| <b>Code</b>         | <b>18FPB20</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Analyze the changes of starch during cooking                  |
| CO-2                | Estimate the properties of oil                                |
| CO-3                | Demonstrate the changes occurring in fruits and vegetables    |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>DAIRY PROCESSING</b>                              |
| <b>Code</b>         | <b>18FPB21</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Apply the technology to process milk and milk products        |
| CO-2                | Design and develop new dairy products                         |
| CO-3                | Follow sanitization procedures in a dairy plant               |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>ANIMAL FOOD PROCESSING</b> |
| <b>Code</b>         | <b>18FPB22</b>                         |

|      | <b>On completion of the course, students would be able to</b>                           |
|------|---|
| CO-1 | Outline the process of meat slaughtering and quality inspection                         |
| CO-2 | Identify different cuts of meat and poultry related to muscle types and bone structures |
| CO-3 | Evaluate the quality of egg and egg products  |
| CO-4 | Interpret the various types of preservation and packaging methods of fish               |
| CO-5 | Identify the areas of concern in meat processing plant sanitation                       |

| <b>Course Title</b> | <b>Core<br/>FOOD ENGINEERING</b>                                       |
|---------------------|--|
| <b>Code</b>         | <b>18FPB23</b>   |
|                     | <b>On completion of the course, students would be able to</b>          |
| CO-1                | Understands the basic concepts of heat transfer and refrigeration      |
| CO-2                | Applies knowledge in selection of various types of evaporators         |
| CO-3                | Understand the process of mixing, extraction and mechanical separation |

| <b>Course Title</b> | <b>Core<br/>MARKETING MANAGEMENT</b>  |
|---------------------|---|
| <b>Code</b>         | <b>18FPB24</b>  |
|                     | <b>On completion of the course, students would be able to</b>               |
| CO-1                | Identify market niches and work in team                                     |
| CO-2                | Create market plan and identify market channel for distribution of products |
| CO-3                | Perform SWOT and PEST analysis  |

| <b>Course Title</b> | <b>IDC<br/>COMPUTER APPLICATIONS IN FOOD PROCESSING</b>              |
|---------------------|--|
| <b>Code</b>         | <b>18FPB25</b>   |
|                     | <b>On completion of the course, students would be able to</b>        |
| CO-1                | Achieves the ability to utilize Windows and its applications         |
| CO-2                | Identify and describe the applications of database management system |
| CO-3                | Create advertising tools to promote the industry and its products    |

|      |  |
|------|--|
| CO-4 | Establish documentation using Enterprise Resource Planning |
|------|--|

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>DAIRY PROCESSING PRACTICAL</b>                    |
| <b>Code</b>         | <b>18FPB26</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Develop various types of milk products                        |
| CO-2                | Assess the quality parameters of milk                         |
| CO-3                | Analyze the market of milk and milk products                  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>PLANTATION CROP PROCESSING</b>                            |
| <b>Code</b>         | <b>18FPB29</b>  |
|                     | <b>On completion of the course, students would be able to</b>         |
| CO-1                | Demonstrate the processing techniques of coffee, tea and cocoa        |
| CO-2                | Explain the concepts of value added products of coconut and sugarcane |
| CO-3                | Prepare value added plantation crop products                          |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>FOOD FERMENTATION TECHNOLOGY</b>                  |
| <b>Code</b>         | <b>18FPB30</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Understand the basic concepts of microbial fermentation       |
| CO-2                | Illustrate the working principle of fermentor and reactor     |
| CO-3                | Design and develop various types of fermented products        |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>FOOD PRODUCT DEVELOPMENT</b>                      |
| <b>Code</b>         | <b>18FPB31</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Develop and market new food product                           |

|      |  |
|------|--|
| CO-2 | Apply the steps involved in new food product development |
| CO-3 | Evaluate the quality and shelf life of foods             |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>PRINCIPLES OF NUTRITION</b>  |
| <b>Code</b>         | <b>18FPB32</b>   |
|                     | <b>On completion of the course, students would be able to</b>                  |
| CO-1                | Summarizes the physiological role of various nutrients in human nutrition.     |
| CO-2                | Translates the knowledge of nutrient and dietary allowances for dietary needs. |
| CO-3                | Illustrate the nutrient requirements throughout the lifecycle                  |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>FOOD PACKAGING</b>   |
| <b>Code</b>         | <b>18FPB33</b>   |
|                     | <b>On completion of the course, students would be able to</b>                  |
| CO-1                | Identifies the role of packaging materials                                     |
| CO-2                | Recognize and select appropriate packaging materials for various food products |
| CO-3                | Design food labels for different products                                      |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>FOOD MICROBIOLOGY AND FERMENTATION TECHNIQUES<br/>PRACTICAL</b> |
| <b>Code</b>         | <b>18FPB34</b>  |
|                     | <b>On completion of the course, students would be able to</b>               |
| CO-1                | Enumerate and study the microbial quality of food products                  |
| CO-2                | Develop fermented food products   |
| CO-3                | Assess the quality parameters of various fermented products                 |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>BASIC QUALITY CONTROL PRACTICAL</b> |
| <b>Code</b>         | <b>18FPB35</b>                                  |

|      |   |
|------|---|
|      | <b>On completion of the course, students would be able to</b> |
| CO-1 | Perform and interpret functional properties of foods          |
| CO-2 | Estimate the chemical properties of fruit juices and oils     |
| CO-3 | Detect the adulterants in common food products                |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Discipline Specific Elective - I<br/>WASTE UTILIZATION AND MANAGEMENT</b> |
| <b>Code</b>         | <b>18FPB36A</b>  |
|                     | <b>On completion of the course, students would be able to</b>                |
| CO-1                | Illustrate different techniques for separation of waste                      |
| CO-2                | Identify the methods of treating solid and liquid waste                      |
| CO-3                | Recreate products from food waste  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Discipline Specific Elective - I<br/>BASIC ACCOUNTING</b>  |
| <b>Code</b>         | <b>18FPB36B</b>   |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Calculate marginal costing and budgeting                      |
| CO-2                | Find break – even point in a business                         |
| CO-3                | Create profit and loss account                                |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>FOOD SAFETY AND QUALITY MANAGEMENT SYSTEMS</b>   |
| <b>Code</b>         | <b>18FPB38</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Able to define and identify food safety hazards, food safety management system and implementation                              |
| CO-2                | Apply food processing, quality control and quality assurance principles and practices to the manufacture of safe food products |
| CO-3                | Define and use the FSSAI standards in product development, apply for different   |

|  |                        |
|--|------------------------|
|  | types of certification |
|--|------------------------|

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>FOOD BIOTECHNOLOGY</b>                            |
| <b>Code</b>         | <b>18FPB39</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Understand DNA technology                                     |
| CO-2                | Illustrate the application of enzyme in food industry         |
| CO-3                | Identify bio packaging for processed food products            |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>ENTREPRENEURSHIP AND FOOD BUSINESS MANAGEMENT</b> |
| <b>Code</b>         | <b>18FPB40</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Explain the concepts of entrepreneurship and food business    |
| CO-2                | Apply for financial assistance in various organizations       |
| CO-3                | Market products through online and direct mode                |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>THERAPEUTIC NUTRITION</b>                           |
| <b>Code</b>         | <b>18FPB41</b>  |
| <b>CO No.</b>       | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Measures the intensity of nutritional illness                   |
| CO-2                | Assess nutritional status                                       |
| CO-3                | Formulate different food products to improve nutritional status |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>ADVANCED QUALITY CONTROL PRACTICAL</b>            |
| <b>Code</b>         | <b>18FPB42</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Analyze physicochemical properties of foods                   |
| CO-2                | Estimate nutrient content of foods                            |
| CO-3                | Perform acceptability trial for developed products            |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>APPLIED NUTRITION PRACTICAL</b>  |
| <b>Code</b>         | <b>18FPB43</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Apply the concept of food product development  |
| CO-2                | Familiarize in formulating different formula   |
| CO-3                | Assess the nutritional status of a target group using anthropometric measurements and dietary survey |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Discipline Specific Elective - II<br/>FOOD INDUSTRY MANAGEMENT</b>    |
| <b>Code</b>         | <b>18FPB44A</b>  |
|                     | <b>On completion of the course, students would be able to</b>            |
| CO-1                | Plan, organize and control management and utilizes resources effectively |
| CO-2                | Lead teams through effective leadership and communication skill          |
| CO-3                | Recognize, perform and appraise different audits in industry             |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Discipline Specific Elective - II<br/>PLANT LAYOUT DESIGN AND MANAGEMENT</b> |
| <b>Code</b>         | <b>18FPB44B</b>   |
|                     | <b>On completion of the course, students would be able to</b>                   |
| CO-1                | Select the plant location and design layout for specific food sectors           |
| CO-2                | Identify and purchase the equipment for specific food industry                  |

|      |   |
|------|---|
| CO-3 | Design a complete project proposal for establishing food industry |
|------|---|

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Generic Elective Course (EDC)<br/>(offered to B.Voc. HM)<br/>TECHNIQUES IN FOOD PRESERVATION</b> |
| <b>Code</b>         | <b>19GECEDC</b>   |
|                     | <b>On completion of the course, students would be able to</b>                                       |
| CO-1                | Apply the principles of food preservation   |
| CO-2                | Produce different sugar and salt preserved products   |
| CO-3                | Determine suitable methods of preservation of foods   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Interdisciplinary Course<br/>FOOD PRESERVATION PRACTICAL</b> |
| <b>Code</b>         | <b>18HMB15 / 19HMB15</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Determine the edible percentage                                 |
| CO-2                | Produce indigenous fruit and vegetable products                 |
| CO-3                | Design and develop novel food products                          |



Since 1947

# PSG College of Arts & Science Coimbatore – 641 014

## Programme: BVoc Networking & Mobile Application

### Programme Outcomes

|      | <b>On completion of the programme, the student will be able to</b>   |
|------|--|
| PO-1 | Become knowledgeable in the subject of Computer Applications and apply the principles of the same to the needs of the Employer / Institution/own Business or Enterprise. |
| PO-2 | Gain Analytical skills in the field/area of Computer Applications  |
| PO-3 | Understand and appreciate professional ethics, community living and Nation Building Initiatives.   |
| PO-4 | Acquire the knowledge of the latest networking and mobile technologies and future trends.  |
| PO-5 | Synthesize principles and theories of Networking and Mobile Applications to different computing paradigms.   |
| PO-6 | Develop professional skills that prepare the students for employment and for life-long learning in specific areas of Networking, Mobile Applications and related fields. |
| PO-7 | Bridge the potential skill gap identified between the Institution and Industry.  |
| PO-8 | Provide vertical mobility to students  |

### Programme Specific Outcomes

|       | <b>On completion of the programme, the student will be able</b>   |
|-------|---|
| PSO-1 | Apply the knowledge of Networking and Mobile Application Development in the domain of Banking, Insurance, Health, Robotics, Environment and Biology.                        |
| PSO-2 | Solve the complex problems in the field of Networking and Mobile Application Development with an understanding of the societal, legal and cultural impacts of the solution. |
| PSO-3 | Identify core networking and mobile application development concepts and the  |

|       |   |
|-------|---|
|       | roles they serve; and given requirements and constraints, design an IT infrastructure including devices, mobile applications, topologies, protocols, systems software, management and security. |
| PSO-4 | Form a part of member in a team with right attitudes.   |

### Course Outcomes

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>C PROGRAMMING</b>  |
| <b>Code</b>         | <b>19NMB01</b>   |
|                     | <b>On completion of the course, students would be able to</b>                  |
| CO-1                | Read, understand and trace the execution of program written in C Language.     |
| CO-2                | Implement program with pointer, array, structures and files.                   |
| CO-3                | Choose the data representation format based on the requirement of the Problem. |
| CO-4                | Analyze and construct files and manipulate them.                               |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>OPERATING SYSTEM CONCEPTS</b>                          |
| <b>Code</b>         | <b>19NMB02</b>   |
|                     | <b>On completion of the course, students would be able to</b>      |
| CO-1                | Assess the requirement for process control by the OS.              |
| CO-2                | Understand Deadlock, Deadlock prevention and avoidance algorithms. |
| CO-3                | Compare and contrast various memory management schemes.            |
| CO-4                | Analyze the Performance issues involved in magnetic disk access.   |
| CO-5                | Understand the functionality of file systems.                      |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>LAB- I (LINUX AND SYSTEM ASSEMBLY LAB)</b>        |
| <b>Code</b>         | <b>19NMB04</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Design, develop and host a user friendly website.             |

|      |   |
|------|---|
| CO-2 | Implement interactive webpage using HTML and CSS. |
| CO-3 | Effectively install and format OS.                |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>LAB – II (C PROGRAMMING LAB)</b>   |
| <b>Code</b>         | <b>19NMB05</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Write the structured programming using C Language.   |
| CO-2                | Choose the right data representations based on the requirements of the problem.                                  |
| CO-3                | Construct programs that demonstrate effective use of C features including arrays, structures, pointers and files |
| CO-4                | Create programs for real time applications.  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>LAB – III (MULTIMEDIA LAB)</b>                    |
| <b>Code</b>         | <b>19NMB06</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Understand and Apply various concepts related to Animation.   |
| CO-2                | Design diversified Animations using Flash and Photoshop.      |
| CO-3                | Implement Animations with Filters and Layers.                 |
| CO-4                | Apply the concept of Morphing.                                |
| CO-5                | Create a Game using Flash Script                              |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>OBJECT ORIENTED PROGRAMMING USING JAVA</b>  |
| <b>Code</b>         | <b>19NMB08</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Understand and design the solution to a problem using Object Oriented Programming Concept.                    |
| CO-2                | Understand and implement the features of Java including exception handling, multithreading and file handling. |
| CO-3                | Implement database connectivity using JDBC.   |
| CO-4                | Develop an effective API using swing and Java Networking.   |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>DATA COMMUNICATION AND NETWORKING</b>  |
| <b>Code</b>         | <b>19NMB09 / 20NMB09</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Understand the categories of networks.   |
| CO-2                | Able to differentiate Analog and Digital Data and signals.   |
| CO-3                | Able to compare and contrast the data transmission media.  |
| CO-4                | Analyze the requirement of error detection and correction techniques.                                  |
| CO-5                | Analyze the features and operations of various application layer protocols such as HTTP, DNS and SNMP. |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>DATA STRUCTURES</b>  |
| <b>Code</b>         | <b>19NMB10</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Apply the knowledge of data structure concepts and the various algorithms while designing and developing software. |
| CO-2                | Analyze the complexity and correctness of the new algorithms.  |
| CO-3                | Choose the appropriate data structure and algorithm design method for a specified application.                     |
| CO-4                | Apply and implement learned algorithm design techniques and data structures to solve problems.                     |
| CO-5                | Apply algorithmic problems including Tree traversals,  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>LAB – V(JAVA PROGRAMMING LAB)</b>   |
| <b>Code</b>         | <b>19NMB12</b>  |
|                     | <b>On completion of the course, students would be able to</b>                           |
| CO-1                | Understand and Apply Object oriented features and Java concepts.                        |
| CO-2                | Write diversified solutions using Java language.  |
| CO-3                | Implement programs with arrays, pointers, functions, file handling and string handling. |

|      |   |
|------|---|
| CO-4 | Apply the concept of applet and implement exception handling. |
| CO-5 | Access data from a database with java program.                |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>LAB – VI (NETWORK PROGRAMMING LAB)</b>               |
| <b>Code</b>         | <b>19NMB13</b>   |
|                     | <b>On completion of the course, students would be able to</b>    |
| CO-1                | Design network and evaluate network administration commands.     |
| CO-2                | Analyze the packet contents of different protocols.              |
| CO-3                | Implement the socket programming for client server architecture. |
| CO-4                | Analyze routing algorithm.                                       |
| CO-5                | Develop online applications.                                     |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>LAB VII (DATA STRUCTURES LAB)</b>                      |
| <b>Code</b>         | <b>19NMB14</b>   |
|                     | <b>On completion of the course, students would be able to</b>      |
| CO-1                | Illustrate the behavior of data structures.                        |
| CO-2                | Analyze and determine the appropriate data structure for a problem |
| CO-3                | Apply the necessary algorithms to solve the problems               |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>DATABASE MANAGEMENT SYSTEMS</b>  |
| <b>Code</b>         | <b>19NMB16</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Understand the terms related to database design and the objectives of data and information management. |
| CO-2                | Understand the database development process and relational database management system                  |
| CO-3                | Design ER-models to represent simple database application scenarios.                                   |
| CO-4                | Attain a good practical understanding of the SQL, PL/SQL, Procedure, Function and Trigger.             |
| CO-5                | Able to develop structured query language (SQL) queries to create, read, update,                       |

|  |                                      |
|--|--------------------------------------|
|  | and delete relational database data. |
|--|--------------------------------------|

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>WIRELESS NETWORKING</b>   |
| <b>Code</b>         | <b>19NMB18</b>  |
|                     | <b>On completion of the course, students would be able to</b>               |
| CO-1                | Explain latest wireless technologies and trends in the communication field. |
| CO-2                | Demonstrate advanced knowledge of networking and wireless networking        |
| CO-3                | Compare different solutions for communications at each network layer        |
| CO-4                | Demonstrate understanding of protocols used in wireless communications      |
| CO-5                | Demonstrate knowledge of programming for wireless network communications    |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>CLOUD COMPUTING</b>  |
| <b>Code</b>         | <b>19NMB19</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Articulate the main concepts and key technologies of cloud computing.                                |
| CO-2                | Understand and use the architecture of compute and storage cloud, service and delivery models.       |
| CO-3                | Explain the core issues of cloud computing such as Virtualization, resource management and security. |
| CO-4                | Explore on various web services and Cloud Computing applications.                                    |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>JAVA SERVER PROGRAMMING</b>   |
| <b>Code</b>         | <b>19NMB20</b>  |
|                     | <b>On completion of the course, students would be able to</b>                   |
| CO-1                | Design and develop dynamic, database-driven application using JSP.              |
| CO-2                | Integrate java and server side scripting languages to develop web applications. |
| CO-3                | Demonstrate advanced concepts of JSP with database connectivity.                |
| CO-4                | Implement the concepts of XML for building enterprise applications.             |
| CO-5                | Develop a small web application project independently.                          |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>Lab – IX (RDBMS and SQLite LAB)</b>                          |
| <b>Code</b>         | <b>19NMB21</b>   |
|                     | <b>On completion of the course, students would be able to</b>            |
| CO-1                | Implement programs using relational database systems.                    |
| CO-2                | Understand and use the data definition and data manipulation Commands.   |
| CO-3                | Demonstrate various constraints, joins and views.                        |
| CO-4                | Implement cursors, triggers and functions essential for the application. |
| CO-5                | Construct programs in PL/SQL with real time applications.                |
| CO-6                | Able to connect variety of applications using SQL and SQLite databases.  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>Lab – X (UI DESIGN LAB)</b>   |
| <b>Code</b>         | <b>19NMB22</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Create static web sites with hyperlinks.  |
| CO-2                | Design and develop basic web pages using HTML and CSS.  |
| CO-3                | Use knowledge of HTML and CSS code and an HTML editor to create personal and/or business websites following current professional and/or industry standards. |
| CO-4                | Design web page for Real time application.  |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>LAB – XI (JAVA SERVER PROGRAMMING LAB)</b>                     |
| <b>Code</b>         | <b>19NMB23</b>   |
|                     | <b>On completion of the course, students would be able to</b>              |
| CO-1                | Create various applications using the JSP Tags, Scriptlets and Java Beans. |
| CO-2                | Implement Session Management and Database Connectivity.                    |
| CO-3                | Create a Simple Webapplication Design.                                     |
| CO-4                | Deploy a logical Web application in a Web server.                          |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>PYTHON PROGRAMMING</b>                                   |
| <b>Code</b>         | <b>19NMB24</b>   |
|                     | <b>On completion of the course, students would be able to</b>        |
| CO-1                | Develop solutions to simple computational problems.                  |
| CO-2                | Write and execute simple Python programs.                            |
| CO-3                | Decompose a Python program into functions.                           |
| CO-4                | Represent compound data using Python lists, tuples and dictionaries. |
| CO-5                | Apply file concepts using file handling.                             |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>MOBILE APPLICATION DEVELOPMENT USING ANDROID</b>  |
| <b>Code</b>         | <b>19NMB25</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Understand the concept of android development platform and how to configure and create android applications |
| CO-2                | Create an activity, intents, different event handling methods and menus                                     |
| CO-3                | Work with views, view groups and content provider.  |
| CO-4                | Embed the graphics and animation in developing android application.   |
| CO-5                | Create android applications and explore them.   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>C# AND .NET PROGRAMMING</b>   |
| <b>Code</b>         | <b>19NMB26</b>  |
|                     | <b>On completion of the course, students would be able to</b>                       |
| CO-1                | Understand the Fundamental principles of .Net Framework                             |
| CO-2                | Understanding the Basic Concepts of C#.   |
| CO-3                | Be Familiar with Designing, writing and testing C# programs.                        |
| CO-4                | Understand the Basic Controls, Web Site Fundamentals and Data Access using Asp.net. |
| CO-5                | Be Familiar with the Database Connectivity.   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>EMBEDDED SYSTEM</b>   |
| <b>Code</b>         | <b>19NMB27</b>  |
|                     | <b>On completion of the course, students would be able to</b>                     |
| CO-1                | Understand the key concepts of embedded systems.                                  |
| CO-2                | Understand the different components of microcontroller.                           |
| CO-3                | Become familiar with the programming environment used to develop embedded systems |
| CO-4                | Understand the life cycle of embedded systems.                                    |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>LAB - XII (PYTHON PROGRAMMING LAB)</b>            |
| <b>Code</b>         | <b>19NMB29</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Write diversified solution using Python language.             |
| CO-2                | Solve problems using control statements                       |
| CO-3                | Develop programs using Tuples, Lists and Dictionaries.        |
| CO-4                | Implement program using file handling operations.             |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>LAB – XIII (MOBILE APPLICATION DEVELOPMENT USING<br/>ANDROID LAB)</b> |
| <b>Code</b>         | <b>19NMB30</b>  |
|                     | <b>On completion of the course, students would be able to</b>                     |
| CO-1                | Configure and install android.  |
| CO-2                | Use of various controls like textboxes and buttons in android.                    |
| CO-3                | Develop a simple program using API controls.                                      |
| CO-4                | Design an application using database connectivity.                                |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>CORE<br/>LAB XIV (C# AND .Net LAB)LAB)</b>                  |
| <b>Code</b>         | <b>19NMB31</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Apply good programming design methods for program development. |
| CO-2                | Design, write and test C# programs.                            |
| CO-3                | Understanding the Web Forms and Validation Controls of ASP.Net |
| CO-4                | Create Web Application with Data Base Connectivity             |
| CO-5                | Able to Develop the Web Application using master pages.        |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>CORE<br/>ROUTING AND SWITCHING</b>  |
| <b>Code</b>         | <b>19NMB33</b>   |
|                     | <b>On completion of the course, students would be able to</b>                                |
| CO-1                | Identify the different types of routing algorithms   |
| CO-2                | Understand protocols used for routing in network   |
| CO-3                | Develop interior gateway and exterior gateway routing protocols used for routing in Internet |
| CO-4                | Articulate security attack and cognitive security in routing                                 |
| CO-5                | Configure and understand the role of Virtual LANs (VLAN) in a switched LAN.                  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>CORE<br/>WEB TECHNOLOGY</b>                                |
| <b>Code</b>         | <b>19NMB34</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Design dynamic websites                                       |
| CO-2                | Apply JavaScript to add dynamic content to pages              |
| CO-3                | Creating web application using <i>JSP</i> and Servlet         |
| CO-4                | Adding a Web-Service Class in Netbeans                        |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>CORE<br/>PRIVACY AND SECURITY</b>                            |
| <b>Code</b>         | <b>19NMB35</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Compare various Cryptographic Techniques                        |
| CO-2                | Design Secure applications                                      |
| CO-3                | Inject secure coding in the developed applications              |
| CO-4                | Understand the legal and ethical issues of privacy and security |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Discipline Specific Elective – I<br/>DISTRIBUTED COMPUTING</b>                                 |
| <b>Code</b>         | <b>19NMB36A</b>   |
|                     | <b>On completion of the course, students would be able to</b>                                     |
| CO-1                | Understood the trends and principles of distributed computing.                                    |
| CO-2                | Analyze the designs and implementations of distributed systems.                                   |
| CO-3                | Gain practical experience through a series of snapshot algorithms and Message ordering paradigms. |
| CO-4                | Develop Distributed services and applications using Memory consistency models.                    |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Discipline Specific Elective – I<br/>DATA MINING</b>   |
| <b>Code</b>         | <b>19NMB36B</b>   |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Apply preprocessing statistical methods for any given raw data.   |
| CO-2                | Evaluate different models used for OLAP and data preprocessing.   |
| CO-3                | Discover interesting patterns from large amounts of data to analyze and extract patterns to solve problems. |
| CO-4                | Select and apply proper Data mining algorithms to build analytical applications.                            |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>LAB - XV (JAVA WEB SERVICES LAB)</b>                                     |
| <b>Code</b>         | <b>19NMB37</b>  |
|                     | <b>On completion of the course, students would be able to</b>               |
| CO-1                | Able to work with XHTML.  |
| CO-2                | Construct programs in Javascript and JSP with effective programming skills. |
| CO-3                | Application of AJAX framework   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>LAB XVI (PRIVACY AND SECURITY LAB)</b>                     |
| <b>Code</b>         | <b>19NMB38</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Understand various cryptographic algorithms                   |
| CO-2                | Compare various Cryptographic Techniques                      |
| CO-3                | Design Secure applications                                    |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>FREE AND OPEN SOURCE SOFTWARE (FOSS)</b>  |
| <b>Code</b>         | <b>19NMB40</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Gather information about Free and Open Source Software projects from software releases.                                   |
| CO-2                | Be able to utilize open source software for developing a variety of software applications, particularly Web applications. |
| CO-3                | Analyze a web page and identify its elements and attributes.  |
| CO-4                | Understand the use of PHP with HTML.  |
| CO-5                | To practice developing dynamic websites.  |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>TWORK COMPONENTS</b>   |
| <b>Code</b>         | <b>19NMB41</b>   |
|                     | <b>On completion of the course, students would be able to</b>                      |
| CO-1                | Assess the requirement for Network components                                      |
| CO-2                | Understand the functionalities of Command line interface tools and hardware tools. |
| CO-3                | Compare and contrast various troubleshooting actions.                              |
| CO-4                | Understand the configuration technologies.   |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>iOS PROGRAMMING</b>                                  |
| <b>Code</b>         | <b>19NMB42</b>   |
|                     | <b>On completion of the course, students would be able to</b>    |
| CO-1                | Understand Xcode10 Playground and Swift.                         |
| CO-2                | Implement flow control statements in Swift.                      |
| CO-3                | Implement user interfaces using Functions, Methods and Closures. |
| CO-4                | Employ the Object Oriented Programming and Collections in Swift. |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Discipline Specific Elective – II<br/>CYBER FORENSICS</b>  |
| <b>Code</b>         | <b>19NMB43A</b>   |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Know about Network and Network security                       |
| CO-2                | Classify Cyber Crime Present and future scenario              |
| CO-3                | To identify types of Cyber Forensics                          |
| CO-4                | To aware of Digital Evidence                                  |
| CO-5                | To gain knowledge about Forensic Tools                        |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Discipline Specific Elective – II<br/>SOCIAL NETWORKING</b>  |
| <b>Code</b>         | <b>19NMB43B</b>   |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Understand what social media is, the various channels through which it operates.  |
| CO-2                | Select tools to monitor information and to consolidate it into a manageable information stream.                                   |
| CO-3                | Examine copyright issues related to social media.   |
| CO-4                | Understands the analytical framework with which to recognize, understand, and more effectively manage new social practices online |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>LAB - XVII (NETWORK COMPONENTS LAB)</b>                              |
| <b>Code</b>         | <b>19NMB44</b>  |
|                     | <b>On completion of the course, students would be able to</b>           |
| CO-1                | Acquire the knowledge of different types of Network cables and devices. |
| CO-2                | Choose the right configurations in networking.                          |
| CO-3                | Construct the Switches, routers with computers.                         |
| CO-4                | Create and configure network topological schemes.                       |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>LAB -XVIII (iOS PROGRAMMING LAB)</b>                       |
| <b>Code</b>         | <b>19NMB45</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Design, develop ios Application.                              |
| CO-2                | Implement interactive actions using storyboard.               |
| CO-3                | Effectively implement using Swift.                            |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Generic Elective Course : CLOUD SERVICES</b>               |
| <b>Code</b>         | <b>21GECNMB</b>   |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Understand the elements of cloud services.                    |
| CO-2                | Compare and contrast cloud service deployment models.         |
| CO-3                | Analyze the performances of cloud service models              |
| CO-4                | Understand the functionality of various cloud services.       |
| CO-5                | Implement real time application.                              |



Since 1947

# PSG College of Arts & Science Coimbatore – 641 014

## Programme: BVoc Banking, Stock and Insurance

### Programme Outcomes

|      | <b>On completion of the programme, the student will be able to</b>   |
|------|--|
| PO-1 | Become knowledgeable in the field of Commerce, blended with Banking, Stock and Insurance and apply the conceptual, interpersonal managerial skills for decision making in a business enterprise. |
| PO-2 | Gain practical skills in the areas of Banking, Insurance, Accounting, Finance and Commerce related courses.  |
| PO-3 | Understand and appreciate Professional Ethics, Community Living and Nation Building Initiatives.   |
| PO-4 | Exhibit professional skills and knowledge for practicing as Relationship Managers, Financial Advisers, Insurance Underwriters and Claim Examiners.   |
| PO-5 | Build competency to manage the business and face leadership challenges.  |

### Programme Specific Outcomes

|       | <b>On completion of the programme, the student will be able</b>  |
|-------|--|
| PSO-1 | Imparting practical knowledge to the students.   |
| PSO-2 | Practical training in banks and other financial institutions provides hands on experience to the students.                         |
| PSO-3 | Workshops and Guest Lectures by experts from industries update and enrich the students in their core sector.                       |
| PSO-4 | The Programme aims at equipping the students with skill required for Banking, Stock and Insurance to increase their employability. |
| PSO-5 | Practical exposure through internship, the students are made to clear the exams certified by recognized bodies.                    |

### Course Outcomes

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>FINANCIAL ACCOUNTING-I</b>                                      |
| <b>Code</b>         | <b>19BSB01</b>  |
|                     | <b>On completion of the course, students would be able to</b>               |
| CO-1                | Apply the Accounting Concepts and Conventions.                              |
| CO-2                | Prepare Various Subsidiary Books.   |
| CO-3                | Reconcile Bank and Cash Statements and Identify the errors to rectify them. |
| CO-4                | Prepare Accounts for Depreciation and Bills of exchange.                    |
| CO-5                | Prepare Final accounts of a Sole trading concern.                           |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>FUNDAMENTALS OF BANKING</b>   |
| <b>Code</b>         | <b>19BSB02</b>  |
|                     | <b>On completion of the course, students would be able to</b>                     |
| CO-1                | Recall the basic concepts of money and banking structure.                         |
| CO-2                | Understand the significance of KYC norms.   |
| CO-3                | Interpret the conditions for loans and advances in banks.                         |
| CO-4                | Identify and analyze various negotiable instruments and Payment systems.          |
| CO-5                | Understand the regulations of RBI and Knowledge on Financial Inclusions in India. |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>ORGANIZATIONAL TRAINING – I</b>                    |
| <b>Code</b>         | <b>19BSB03</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Apply office automation tools in practical aspects Accounting. |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>LAB - BANKING PRODUCTS</b>                                |
| <b>Code</b>         | <b>19BSB04</b>  |
|                     | <b>On completion of the course, students would be able to</b>         |
| CO-1                | Apply the operating procedures of banking transactions with KYC norms |
| CO-2                | Analyze and prepare feasibility report to obtain bank loan            |
| CO-3                | Apply the knowledge for availing educational loan                     |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>INSURANCE SYSTEM</b>                              |
| <b>Code</b>         | <b>19BSB06</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Interpret the concepts and classification of Risk.            |
| CO-2                | Justify the principles and terms of insurance.                |
| CO-3                | Comprehend the knowledge on insurance sector in India.        |
| CO-4                | Classify the various insurance intermediaries.                |
| CO-5                | Analyze the impact of IT on insurance                         |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>PRACTICE WORKSHOP</b>                             |
| <b>Code</b>         | <b>19BSB07</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Register for SSI unit.  |
| CO-2                | Prepare organization chart for a Public Limited Company.      |
| CO-3                | Apply for a PAN card.   |
| CO-4                | Apply for Online Reservation.                                 |
| CO-5                | Prepare Partnership Deed.                                     |
| CO-6                | Fill up the forms related to Purchase Procedure.              |
| CO-7                | Prepare Payroll of a Company.                                 |
| CO-8                | Fill up the forms related to Import& Export.                  |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>ORGANIZATIONAL TRAINING – II</b>   |
| <b>Code</b>         | <b>19BSB08</b>   |
|                     | <b>On completion of the course, students would be able to</b>                          |
| CO-1                | Identify the various types of risk.  |
| CO-2                | Prepare various types of Insurance Forms.  |
| CO-3                | Categorize the types of Hazards and material and non-material facts of life insurance. |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>LAB – INSURANCE AND ITS PRODUCTS</b>              |
| <b>Code</b>         | <b>19BSB09</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Formulate various Insurance forms.                            |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>COST AND MANAGEMENT ACCOUNTING</b>                |
| <b>Code</b>         | <b>19BSB11</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Identify the differences and can prepare the Cost sheet       |
| CO-2                | Prepare the Material Control and Labour Costing               |
| CO-3                | Analyze the Overhead rate and Machine Hour Rate               |
| CO-4                | Differentiate the Major concepts and can prepare Ratios       |
| CO-5                | Can prepare fund and cash flow statements                     |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>FINANCIAL MANAGEMENT</b>                                    |
| <b>Code</b>         | <b>19BSB12</b>  |
|                     | <b>On completion of the course, students would be able to</b>           |
| CO-1                | Apply the concepts in various Functional areas of Financial Management. |
| CO-2                | Evaluate the Investment opportunities in Business.                      |

|      |   |
|------|---|
| CO-3 | Compute the overall Cost of Capital of the Company. |
| CO-4 | Develop optimum Capital Structure.                  |
| CO-5 | Estimate Working Capital requirements of a Firm.    |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>INDIAN FINANCIAL SYSTEM</b>                       |
| <b>Code</b>         | <b>19BSB13</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Understand the structure of Indian Financial System.          |
| CO-2                | Familiarize with money market and capital market operations.  |
| CO-3                | Recollect the functions of various financial institutions.    |
| CO-4                | Perceive knowledge on financial Services in India.            |
| CO-5                | Have a clear idea on Non Banking Financial Institutions.      |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>SECURITY ANALYSIS AND PORTFOLIO MANAGEMENT</b>   |
| <b>Code</b>         | <b>19BSB14</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Summarize the various theoretical concepts and techniques of Portfolio management                            |
| CO-2                | Analyze the theoretical perspectives and practical aspects of fundamental Analysis for investment decisions. |
| CO-3                | Predict the share price movements with the help of technical analysis  |
| CO-4                | Select and construct optimal portfolio using capital market theories   |
| CO-5                | Evaluate the investment decisions using tools such as formula plans  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>ORGANIZATIONAL TRAINING – III<br/>(TRAINING AND SECURITIES TRADING)</b> |
| <b>Code</b>         | <b>19BSB15</b>  |
|                     | <b>On completion of the course, students would be able to</b>                       |

|      |  |
|------|--|
| CO-1 | Membership Process in NSE and BSE                |
| CO-2 | Types of orders and Listed NIFTY                 |
| CO-3 | Indian, Global Indices and Procedure for trading |
| CO-4 | Trading Cycle and Stock brokers role             |
| CO-5 | Bonus Issue and right issue.                     |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>LAB -COMPUTERIZED ACCOUNTING-TALLY</b>                      |
| <b>Code</b>         | <b>19BSB16</b>  |
|                     | <b>On completion of the course, students would be able to</b>           |
| CO-1                | Create company using various features of Tally.                         |
| CO-2                | Prepare Statement of Trading/Profit and loss Account and Balance Sheet. |
| CO-3                | Prepare Inventory Report and Stock summary.                             |
| CO-4                | Prepare Bank Reconciliation Statement.                                  |
| CO-5                | Compute the GST for Business Transactions.                              |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>PRINCIPLES OF MANAGEMENT</b>   |
| <b>Code</b>         | <b>19BSB18</b>   |
|                     | <b>On completion of the course, students would be able to</b>                          |
| CO-1                | Exhibit the management concepts and their application in the global business scenario. |
| CO-2                | Apply the knowledge of planning in an organization which helps in decision making.     |
| CO-3                | Remember the organization structure for a business concern.                            |
| CO-4                | Develop the interpersonal managerial skills to excel as a good leader.                 |
| CO-5                | Identify the deviations from the standards to motivate the work force.                 |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>BANKING AND INSURANCE LAWS</b> |
|---------------------|--|

|             |   |
|-------------|---|
| <b>Code</b> | <b>19BSB19</b>  |
|             | <b>On completion of the course, students would be able to</b>   |
| CO-1        | Build specialized knowledge on Acquisition, Amalgamation of Banking Companies under Banking Regulation Act. |
| CO-2        | Explain the role of RBI and Financial Inclusion in Banking.   |
| CO-3        | Discuss the objectives of Ombudsman Scheme, SARFAESI and FRDI Bill  |
| CO-4        | Summarize the Evolution and Insurance Regulations in India.   |
| CO-5        | Examine the powers of IRDA in regulating Insurance Companies.   |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>INCOME TAX</b>  |
| <b>Code</b>         | <b>19BSB20</b>  |
|                     | <b>On completion of the course, students would be able to</b>             |
| CO-1                | Apply the concepts for determining the Residential Status of an Assessee. |
| CO-2                | Calculate Income from Salary and House property.                          |
| CO-3                | Compute Income from Business and Capital Gains.                           |
| CO-4                | Compute the Gross Total Income of an Assessee.                            |
| CO-5                | Know the Procedures for Assessment.                                       |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>ORGANIZATIONAL TRAINING – IV<br/>( FINANCIAL PRODUCTS AND SERVICES)</b> |
| <b>Code</b>         | <b>19BSB21</b>  |
|                     | <b>On completion of the course, students would be able to</b>                       |
| CO-1                | Understand the financial securities   |
| CO-2                | Invest in best schemes  |
| CO-3                | Serves to bank and SSI  |
| CO-4                | Trends of the financial institutions  |
| CO-5                | Incentives and subsidies for SSME's   |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>BUSINESS DATA PROCESSING - LAB</b>                                   |
| <b>Code</b>         | <b>19BSB22</b>   |
|                     | <b>On completion of the course, students would be able to</b>                    |
| CO-1                | Draft Business letters, using features of MS Word.                               |
| CO-2                | Compute various application of business using MS Excel for Managerial decisions. |
| CO-3                | Develop Effective Business presentation using Power point.                       |
| CO-4                | Administer DBMS effectively.   |
| CO-5                | Apply the SPSS packages for Data Analysis.                                       |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>FUNDAMENTALS OF E-COMMERCE AND M-COMMERCE</b>     |
| <b>Code</b>         | <b>19BSB23</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Identify the e-Commerce Applications.                         |
| CO-2                | Evaluate the Network Security System.                         |
| CO-3                | Apply the interactive Marketing Process through Internet.     |
| CO-4                | Operate in the platform of Mobile Commerce.                   |
| CO-5                | Utilize the e-Technology Services.                            |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>CORPORATE ACCOUNTING</b>  |
| <b>Code</b>         | <b>19BSB24</b>  |
|                     | <b>On completion of the course, students would be able to</b>                                   |
| CO-1                | Recall the Accounting entries for Issue of Shares and Debentures in a Company.                  |
| CO-2                | Follow the Accounting Procedure for Redeeming Shares and Debentures.                            |
| CO-3                | Prepare Final Accounts as per the Provisions of the Companies Act.                              |
| CO-4                | Value the Shares and Goodwill of the Company and prepare Accounts in the Process of Liquidation |
| CO-5                | Apply the knowledge of Accounting with respect to Electricity Companies.                        |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>BUSINESS COMMUNICATION</b>                                    |
| <b>Code</b>         | <b>19BSB25</b>  |
|                     | <b>On completion of the course, students would be able to</b>             |
| CO-1                | Apply the Principles of Communication in Business Correspondence.         |
| CO-2                | Draft Business Letters and understanding the Structure of Letter Writing. |
| CO-3                | Apply the various Methods of Internal Communication.                      |
| CO-4                | Use the various skills in External Communication.                         |
| CO-5                | Effectively use the various Channels of Communication.                    |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Discipline Specific Elective - I<br/>E-BANKING TECHNOLOGY</b>                   |
| <b>Code</b>         | <b>19BSB26A</b>  |
|                     | <b>On completion of the course, students would be able to</b>                      |
| CO-1                | Relate the importance of Networking and global developments in Banking Technology. |
| CO-2                | Analyze the merits and demerits of Automatic Teller Machine.                       |
| CO-3                | Select and make use of appropriate Electronic Fund Transfer                        |
| CO-4                | Explain the types and message format of SWIFT.                                     |
| CO-5                | Summarize the strategies of E-banking and Information System Security.             |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Discipline Specific Elective - I<br/>WORKING CAPITAL MANAGEMENT</b>               |
| <b>Code</b>         | <b>19BSB26B</b>  |
|                     | <b>On completion of the course, students would be able to</b>                        |
| CO-1                | Forecast Working Capital Management Requirements of a Firm.                          |
| CO-2                | Utilize the Working Capital Financing Mix effectively.                               |
| CO-3                | Manage the Receivables effectively.  |
| CO-4                | Apply Cash and Inventory Management Tools for optimum Cash and Inventory Management. |
| CO-5                | Assess the Working Capital Finance.  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>SERVICE MARKETING</b>   |
| <b>Code</b>         | <b>19BSB27</b>  |
|                     | <b>On completion of the course, students would be able to</b>               |
| CO-1                | Identify and analyze the various avenues of Investment.                     |
| CO-2                | Apply the knowledge of various Markets and Instrument in business scenario. |
| CO-3                | Apply the norms relating to Stock Exchange.                                 |
| CO-4                | Identify the functions of SEBI and rights of the Investors.                 |
| CO-5                | Analyze the Stock Market Index and Stock Exchange Trading.                  |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>ORGANIZATIONAL TRAINING – V<br/>(CUSTOMER RELATIONSHIP MANAGEMENT)</b> |
| <b>Code</b>         | <b>19BSB28</b>   |
|                     | <b>On completion of the course, students would be able to</b>                      |
| CO-1                | Understand the Leadership skills   |
| CO-2                | Types of customers   |
| CO-3                | Buyer Behaviour  |
| CO-4                | Outcome of CRM   |
| CO-5                | Introduction pradagm of a product.   |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>LAB – MARKETING STRATEGIES</b>   |
| <b>Code</b>         | <b>19BSB29</b>   |
|                     | <b>On completion of the course, students would be able to</b>                                      |
| CO-1                | Understand the Marketing strategies, Plans, Frame work, consumer behaviour and planning guidelines |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>INVESTMENT MANAGEMENT</b>                                       |
| <b>Code</b>         | <b>19BSB31</b>  |
|                     | <b>On completion of the course, students would be able to</b>               |
| CO-1                | Identify and analyze the various avenues of Investment.                     |
| CO-2                | Apply the knowledge of various Markets and Instrument in business scenario. |
| CO-3                | Apply the norms relating to Stock Exchange.                                 |
| CO-4                | Identify the functions of SEBI and rights of the Investors.                 |
| CO-5                | Analyze the Stock Market Index and Stock Exchange Trading.                  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Discipline Specific Elective - II<br/>GENERAL INSURANCE</b>                    |
| <b>Code</b>         | <b>19BSB32A</b>   |
|                     | <b>On completion of the course, students would be able to</b>                     |
| CO-1                | Classify the various General Insurance in India and its working and organization. |
| CO-2                | Identify the losses in Marine and Fire Insurances and assess the Premium.         |
| CO-3                | Elaborate the types and settlement procedure in Motor and Health Insurances.      |
| CO-4                | Analyze about various Miscellaneous Insurance Schemes.                            |
| CO-5                | Interpret Social Insurance and New Insurance Schemes initiated by the Government. |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Discipline Specific Elective - II<br/>BANKING AND INTERNATIONAL FINANCE</b>           |
| <b>Code</b>         | <b>19BSB32B</b>  |
|                     | <b>On completion of the course, students would be able to</b>                            |
| CO-1                | Describe about evolution of International Banking and International finance centers.     |
| CO-2                | Identify the types of International Financial Institutions and Foreigncurrency Accounts. |
| CO-3                | Recognize about administrative set-up of Foreign Exchange Management and Its functions.  |

|      |  |
|------|--|
| CO-4 | Explain about Exchange Rate System and Balance of Payment.                   |
| CO-5 | State the participants in Foreign Exchange Market and types of transactions. |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>RISK MANAGEMENT</b>   |
| <b>Code</b>         | <b>19BSB33</b>  |
|                     | <b>On completion of the course, students would be able to</b>   |
| CO-1                | Identify and measures the risk through Risk Management Process.   |
| CO-2                | Analyze the types of Risk and role of RBI in Risk Management  |
| CO-3                | Apply theoretical Knowledge on Measurement and Management of Credit, Market, Operational and Interest Rate Risks. |
| CO-4                | Summarize the Risk Management Information System and Derivative Market.   |
| CO-5                | Recall the methods of Managing Risks and Risk Financing.  |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>LIFE INSURANCE</b>   |
| <b>Code</b>         | <b>19BSB34</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Prioritize the feature of Life Insurance and LIC's organizational Structure.   |
| CO-2                | Describe the procedure for Issue, Alteration and Foreclosure of Policy.  |
| CO-3                | Recall the Valuation Approaches and Types of Life Insurance Policies.  |
| CO-4                | Summarize the factors affecting the Pricing of Life Insurance Products and Calculation of Premium and Surrender Value. |
| CO-5                | Explain the Procedure, Settlement and Types of Life Insurance Claims.  |

|                     |   |
|---------------------|---|
| <b>Course Title</b> | <b>Core<br/>ENTREPRENEURIAL DEVELOPMENT</b>                   |
| <b>Code</b>         | <b>19BSB35</b>  |
|                     | <b>On completion of the course, students would be able to</b> |
| CO-1                | Recall the qualities of an Entrepreneur.                      |
| CO-2                | Prepare the Feasibility Report for the business.              |

|      |   |
|------|---|
| CO-3 | Apply the Procedures for starting SSI.                          |
| CO-4 | Identify the Incentive Schemes.                                 |
| CO-5 | Utilize the Institutional Assistance for the business ventures. |

|                     |  |
|---------------------|--|
| <b>Course Title</b> | <b>Core<br/>LAB - ENTREPRENEURIAL SKILL</b>  |
| <b>Code</b>         | <b>19BSB36</b>   |
|                     | <b>On completion of the course, students would be able to</b>  |
| CO-1                | Know the Entrepreneurial skill, recruitment process, Innovation sin business, Behavioural changes in trainee and Environmental restrictions. |