



Since 1947

PSG College of Arts & Science Coimbatore – 641 014

Programme: MA Economics

Programme Outcomes

	On completion of the programme, the student will be able to
PO-1	Demonstrate knowledge on concepts, themes and the latest trend in their respective domains
PO-2	Develop lateral thinking and research skills
PO-3	Inculcate social and life skills to contribute to the changing needs of the society
PO-4	Exhibit leadership skills to lead and solve the issues confronting the society
PO-5	Develop the rounded citizens who are intellectually alert and ethically sound
PO-6	Acquire necessary skills/ competencies/ to excel in their chosen paths viz Employee/ entrepreneur/ researcher

Programme Specific Outcomes

	On completion of the programme, the student will be able to
PSO-1	Have comprehensive and exhaustive knowledge in Modern economics
PSO-2	Acquire the conceptual and empirical skills to analyze, interpret and suggest remedies/ policies to the current Economic Issues
PSO-3	The curriculum taught through augmented Trading and learning centric methods with need based syllabus prepared the students industry ready and also sharpened their skills to have an edge over their contemporaries
PSO-4	Plan and organize a research work of social relevance with Econometrics modeling
PSO-5	Behave ethically and morally in order to become change-makers/trend-setters of the society

Course Outcomes

Course Title	Core ADVANCED MICRO ECONOMIC THEORY I
Code	18ECP01
	On completion of the course, students would be able to
CO-1	Understand the core economic problems and economic models
CO-2	Analyze the consumer behavior and demand
CO-3	Acquire the knowledge to Link the production, productivity and the cost functions and apply the model to real-world businesses
CO-4	Understand different market structure and method of price and output determination
CO-5	Identify and evaluate alternative theories of the firm

Course Title	Core ADVANCED MACRO ECONOMIC THEORY AND ANALYSIS
Code	18ECP02
	On completion of the course, students would be able to
CO-1	Understand the forces determining macroeconomic variables such as inflation, unemployment, interest rates, and the exchange rate
CO-2	Describe the meaning of consumption and investment with theories
CO-3	Analyze the causes and effects of inflation and unemployment
CO-4	Evaluate national economic components, conditions, and alternatives for achieving socioeconomic goals
CO-5	Formulate and assess macroeconomic policy suggestions

Course Title	Core INTERNATIONAL TRADE AND FINANCE
Code	18ECP03
	On completion of the course, students would be able to
CO-1	Describe the main economic theories and major models of international trade and be able to distinguish between them in terms of their assumptions and economic implications
CO-2	Examine the various reasons why countries engage in international trade, including the direction and volume of trade between nations
CO-3	Understand how international factor mobility affects an economy
CO-4	Analyze current issues and policies using the concepts of international trade theory
CO-5	Understand the role key international institutions play in affecting trade flows across the world

Course Title	Core RESEARCH METHODOLOGY
Code	18ECP04
	On completion of the course, students would be able to
CO-1	Identify the overall process of designing a research study from its inception to its report
CO-2	Design a good quantitative purpose statement and quantitative research questions and hypotheses
CO-3	Understand the link between research questions and data collection and how they are operationalized in educational practice
CO-4	Acquire knowledge on project identification and policy making

Course Title	Core ECONOMIC GROWTH AND DEVELOPMENT
Code	18ECP05
	On completion of the course, students would be able to
CO-1	Discuss the important theories and models in economic development and their policy implications
CO-2	Analyze and describe the features of less developed economies and the macroeconomic and microeconomic development challenges they face
CO-3	Acquire a basic understanding of the issues and on-going debates to address economic development challenges by identifying key macroeconomic indicators and measures of economics change, growth, and development
CO-4	Understand and evaluate the unevenness in development
CO-5	Develop analytical and critical thinking skills and use them to judge the appropriateness of economic development policy options

Course Title	Core ADVANCED MICRO ECONOMIC THEORY II
Code	18ECP06
	On completion of the course, students would be able to
CO-1	Understand the core economic problems and economic models
CO-2	Analyze the consumer behavior and demand
CO-3	Acquire the knowledge to link the production, productivity and the cost functions and apply the model to real-world businesses
CO-4	Understand the different market structure and method of price and output determination
CO-5	Evaluate alternative theories of the firm

Course Title	Core MATHEMATICAL METHODS
Code	18ECP07
	On completion of the course, students would be able to
CO-1	Demonstrate the ability to formulate the models of Economic and natural phenomena using differential and Integral equations
CO-2	Analyze the mathematical and financial models to represent and understand quantitative and qualitative relationship
CO-3	Acquire the ability to solve equations in real-life scenarios

Course Title	Core ECONOMETRICS
Code	18ECP08
	On completion of the course, students would be able to
CO-1	Describe the theoretical background for the standard methods used in empirical analyses, like properties of least squares estimators and the statistical testing of hypothesis
CO-2	Interpret and critically evaluate the outcomes of empirical analysis
CO-3	Analyze economic data and apply the statistical tools by understanding the assumptions underlying those statistical tools
CO-4	Understand estimation issues and their implications including, biased selection, non-linearity, heteroskedasticity and multicollinearity

Course Title	Core MONETARY ECONOMICS
Code	18ECP09
	On completion of the course, students would be able to
CO-1	Understand the meaning of money supply and velocity of circulation
CO-2	Describe the basic theories on Quantity theory of money
CO-3	Examine the structure of interest rate
CO-4	Understand the meaning and causes of inflation
CO-5	Analyze the role of central bank during inflation

Course Title	Core PUBLIC ECONOMICS
Code	18ECP11
	On completion of the course, students would be able to
CO-1	Understand the concept of Public revenue, Public debt and Budgeting
CO-2	Analyze the public expenditure theories
CO-3	Describe the concept of fiscal federalism

Course Title	Core ECONOMICS OF HUMAN RESOURCES
Code	18ECP12
	On completion of the course, students would be able to
CO-1	Understand the economic principles explaining how markets for human resources work in the economy
CO-2	Identify and analyze the major policy issues affecting labour markets such as migration, employment protection, discrimination, and the role of trade unions
CO-3	Analyze the major determinants of employment, unemployment and the distribution of income within a country
CO-4	Examine how pay and incentives schemes can enhance workforce productivity for different types of jobs and organisations

Course Title	Core STATISTICAL PACKAGES FOR DATA ANALYSIS
Code	18ECP13
	On completion of the course, students would be able to
CO-1	Perform basic statistical estimation and analysis on business and economic data and interpret the results
CO-2	Apply statistical concepts and analytical skills to analyse real-world economic and business issues
CO-3	Analyze business and economic data with statistical software and report the results
CO-4	Demonstrate such capabilities as problem-solving, critical thinking, and communication skills related to the statistics discipline

Course Title	Discipline Elective Course – I ORGANIZATIONAL BEHAVIOUR
Code	18ECP14A
	On completion of the course, students would be able to
CO-1	Discuss the development of the field of organizational behaviour and explain the micro and macro approaches
CO-2	Analyze and compare different models used to explain individual behaviour related to motivation and rewards
CO-3	Identify the processes used in developing communication and resolving conflicts
CO-4	Explain group dynamics and demonstrate skills required for working in groups (team building)
CO-5	Identify the various leadership styles and the role of leaders in a decision making process
CO-6	Discuss the implementation of organizational change

Course Title	Discipline Elective Course – I BEHAVIOURAL ECONOMICS
Code	18ECP14B
On completion of the course, students would be able to	
CO-1	Understand the strengths and weaknesses of the "rational actor" framework used elsewhere in economics, as well as a deeper understanding of the heuristics and biases that affect people's thinking
CO-2	Analyze the behavioural models and associated mathematical and statistical techniques, along with applications and policy implications of those models
CO-3	Research and investigative skills such as problem framing and solving and the ability to assemble and evaluate complex evidence and arguments
CO-4	Acquire personal effectiveness through task-management, time-management, dealing with uncertainty and adapting to new situations, personal and intellectual autonomy through independent learning

Course Title	Core HEALTH ECONOMICS
Code	18ECP16
On completion of the course, students would be able to	
CO-1	Interpret and appropriately apply the key concepts of economics within the context of the health system
CO-2	Debate the relative merits of equity considerations in setting priorities for a health system
CO-3	Understand approaches to identify and value costs and outcomes to include in economic evaluation
CO-4	Describe major types of economic evaluation and to understand their use in the decision-making process
CO-5	Recognize and apply key steps in critically reviewing economic evaluations
CO-6	Understand and describe the main features of the Indian health system- in particular how it differs from other salient national health systems according to how services are delivered and purchased

Course Title	Core OPERATIONS RESEARCH
Code	18ECP17
	On completion of the course, students would be able to
CO-1	Formulate a Linear Program (LP) and use the Simplex Method to solve LP
CO-2	Understand the design and analysis of algorithms: specifically through complexity analysis
CO-3	Critically analyze and interpret results and present this in both oral and written form
CO-4	Develop mathematical skills to analyze and solve problems related with queuing theory, inventory control technique and replacement problems that arise in the business concerns
CO-5	Create an ability to work in a team: specifically to solve larger problems, communicate technical knowledge, partition a problem into smaller tasks, and complete tasks on time

Course Title	Core ENVIRONMENTAL ECONOMICS
Code	18ECP18
	On completion of the course, students would be able to
CO-1	Understand the basic concepts in environmental economics
CO-2	Analyze about the problems in economy and how it can be solved using the social welfare functions
CO-3	Explain the basic theories in environmental economics
CO-4	Acquire the knowledge of Public good and Public Bad and how the technologies have been used to control the issues in the economy

Course Title	Discipline Elective Course – II ECONOMICS OF INFRASTRUCTURE
Code	18ECP19A
	On completion of the course, students would be able to
CO-1	Understand the key issues and problems with respect to regulation, governance and policies for the infrastructure sector
CO-2	Analyze and be able to apply key principles, concepts and tools relevant to the economic regulation of infrastructure industries
CO-3	Examine different government policies for regulation and reform of the infrastructure sector
CO-4	Determine the rationale for addressing economic regulation issues

Course Title	Discipline Elective Course – II ECONOMICS FOR COMPETITIVE EXAMINATION
Code	18ECP19B
	On completion of the course, students would be able to
CO-1	Understand the links between household behavior and the economic models of demand
CO-2	Understand how different degrees of competition in a market affect pricing and output
CO-3	Apply economic reasoning to understand the operation of an economy
CO-4	Understand the workings and roles of various international economic institutions, such as the International Monetary Fund, the World Bank and the World Trade Organization, and how they may impact the global operation and decision making of Firms
CO-5	Use their knowledge about financial instruments, macroeconomic policy and the mechanics of finance to develop optimal hedging, speculation, risk management, and portfolio allocation strategies

Course Title	IDC ECONOMICS FOR DECISION MAKING
Code	18GECIDC
	On completion of the course, students would be able to
CO-1	Identify the key issues facing a business or business subdivision
CO-2	Determine qualitative and quantitative methods to investigate and solve critical business problems
CO-3	Evaluate and integrate ethical considerations when making business decisions
CO-4	Incorporate diversity and multicultural perspectives when making business decisions

Course Title	Core MANAGERIAL ECONOMICS
Code	18COP12
	On completion of the course, students would be able to
CO-1	Apply and analyze the various concepts, issues and aspects of Micro and Macro economics
CO-2	Identify economic reasoning to the problems of business and public policies
CO-3	Understand and measure the current events and to develop independent logical thinking towards the development of the economy



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Programme: MSW Master of Social Work

Programme Outcomes

	On completion of the programme, the student will be able to
PO-1	Identify oneself as a professional social worker by imbibing the knowledge, values and ethics of the profession
PO-2	Ensure equity in practice with diverse populations by applying strategies of advocacy and social change
PO-3	Engage in research, evaluate research studies and apply the findings to develop new intervention strategies for micro, mezzo and macro levels of practices

Programme Specific Outcomes

	On completion of the programme, the student will be able to
PSO-1	Provide practical exposure to apply theoretical knowledge in practice through concurrent field work, Special visits, Institutional training and Block Placement
PSO-2	Make the Social work trainees to experience group living in Rural/Tribal setting
PSO-3	Build competencies in offered specialization of the department i.e., Personnel Management & Industrial Relations, Medical & Psychiatric Social Work and Community Development

Course Outcomes

Course Title	Core INTRODUCTION TO SOCIAL WORK
Code	18SWP01
	On completion of the course, students would be able to
CO-1	Understand the value base of the profession and its ethical standards and principles and practice accordingly

Course Title	Core PSYCHOLOGY FOR SOCIAL WORK PRACTICE
Code	18SWP02
	On completion of the course, students would be able to
CO-1	Demonstrate familiarity with the major concepts, theoretical perspectives and historical trends in psychology
CO-2	Respect and use critical and creative thinking, skeptical inquiry, and, when possible, the scientific approach to solve problems related to behavior and mental processes
CO-3	Demonstrate understanding of complex changes in various stages in the life span of an individual and competence to deal with problems in those stages

Course Title	Core CONTEMPORARY INDIAN SOCIETY
Code	18SWP03
	On completion of the course, students would be able to
CO-1	The elements of Society, Socialization and Social groups, Marriage and Family System
CO-2	Develop the capacity to deal with Social stratification and Social Change, Social Problems with special reference to India.

Course Title	Core SOCIAL CASE WORK
Code	18SWP04
	On completion of the course, students would be able to
CO-1	Identify and clarify the key issues to the problem situation, gather relevant information from clients and conduct needs and intake assessment to assess and identify severity, key risks and protective factors for intervention
CO-2	Conceptualize and identify appropriate approaches to develop care/ case plan for client.
CO-3	Use different modes of engagement (e.g. home visit, telephone interview, face-to-face interview, etc.) for the purpose of assessment, intervention and monitoring
CO-4	Document and maintain case files and prepare reports according to the required documentation standard

Course Title	Core SOCIAL GROUP WORK
Code	18SWP05
	On completion of the course, students would be able to
CO-1	Develop awareness about the specific characteristics of Group Work and its contributions as a method of social work intervention
CO-2	Gain knowledge about group formation and the use of a variety of group approaches
CO-3	Develop understanding of concepts, dynamics and small group theory in relation to all types of groups, e.g. family, staff, committee, long-term client groups
CO-4	Identify the various situations and settings where the method could be used in the context of social realities of the country

Course Title	Core COMMUNITY ORGANISATION AND SOCIAL ACTION
Code	18SWP 07
	On completion of the course, students would be able to
CO-1	Identify community organization, management, and policy –planning strategies, as well as empirically supported practices for dealing with contemporary social work and social welfare problems
CO-2	Demonstrate beginning level community organization, management, and policy/evaluation competencies in identifying the major internal and external environmental factors that affect the selection of those strategies
CO-3	The ability to utilize selected assessment tools for addressing practice issues (e.g., flow charts, community profiling, asset mapping, community needs and strengths assessment, ethical decision- making models, policy analysis frameworks)

Course Title	Core SOCIAL WORK RESEARCH AND STATISTICS
Code	18SWP08
	On completion of the course, students would be able to
CO-1	Apply knowledge on formulating social work research in scientific manner
CO-2	Conduct and analyze research with appropriate tools and techniques
CO-3	SPSS for data analysis

Course Title	Core EMPLOYEE WELFARE & LABOUR LEGISLATION – I
Code	18SWP09A
	On completion of the course, students would be able to
CO-1	Carry out the Factories Act 1948 provisions in Industrial Settings
CO-2	Administer the labour welfare programmes/initiatives
CO-3	Approach CBWE, IF Office & TN Labor Welfare Board for the matters pertaining to it

Course Title	Core MEDICAL SOCIAL WORK
Code	18SWP09B
	On completion of the course, students would be able to
CO-1	Have an understanding of the relationship between social work and community health
CO-2	Get familiarized with the national and international agencies working for community health
CO-3	Equipped with the necessary skills required for a professional social worker
CO-4	Have a thorough knowledge of patient, hospital, hospitalization and treatment

Course Title	Core RURAL COMMUNITY DEVELOPMENT
Code	18WP09C
	On completion of the course, students would be able to
CO-1	Critically evaluate Rural Community Development Programmes, Panchayati Raj and develop innovative strategies and development programmes
CO-2	Apply knowledge to ensure sustainable development of rural communities
CO-3	Utilize their knowledge and skills to address Emerging Issues in Rural Development

Course Title	Discipline Specific Elective - I SOCIAL WORK AND DISASTER MANAGEMENT
Code	18SWP11A
	On completion of the course, students would be able to
CO-1	Disaster Preparedness Plan
CO-2	Associate with Disaster Rescue Operations

Course Title	Discipline Specific Elective – I SOCIAL WORK AND PERSONS WITH DISABILITIES
Code	18SWP11B
	On completion of the course, students would be able to
CO-1	Demonstrate understanding on the forms of disability and the social impacts of disability
CO-2	Work effectively as a member of the multidisciplinary rehabilitation team
CO-3	Formulate and Implement Intervention Strategies for welfare of persons with disabilities at various levels of practice
CO-4	Advocate for the amelioration of Stigma and Discrimination and rights of persons with disabilities

Course Title	Core EMPLOYEE WELFARE & LABOUR LEGISLATION – II
Code	18SWP13A
	On completion of the course, students would be able to
CO-1	Implement the labour laws on the aspects of Recruitment, Working Conditions, Social Security etc.,
CO-2	Get a clear idea on Income Tax calculation, Professional Tax Act
CO-3	Approach, PF & ESI Office for the matters pertaining to it

Course Title	Core MENTAL HEALTH
Code	18SWP13B
	On completion of the course, students would be able to
CO-1	Have a thorough knowledge of the various psychiatric disorders and their classification
CO-2	Understand the difference between mental illness and mental retardation
CO-3	Relate social work with mental health
CO-4	Familiarise with the concept of community health and the nodal agencies working for community health

Course Title	Core URBANCOMMUNITY DEVELOPMENT
Code	18SWP13C
	On completion of the course, students would be able to
CO-1	Identify the problems and issues faced by urban communities and develop practice goals to effectively deal with them
CO-2	Formulate intervention strategies, evaluate existing policies and programmes and advocate for changes in the same
CO-3	Utilize the learned skills to work with the urban community, and develop and implement programmes with them

Course Title	Core SOCIAL PROBLEMS AND SOCIAL LEGISLATIONS
Code	18SWP14
	On completion of the course, students would be able to
CO-1	Identify the major factors contributing to the emergence of social problems and Understand the role of social worker in dealing with them
CO-2	Demonstrate competence in applying social work knowledge and skills to address the social problems

Course Title	Core SOCIAL WELFARE ADMINISTRATION AND SOCIAL POLICY
Code	18SWP15
	On completion of the course, students would be able to
CO-1	Acquire knowledge and skill on social welfare administration and social policy
CO-2	Start a Human service Organization and can progress with sufficient knowledge base

Course Title	Generic Elective Course HUMAN RIGHTS & SOCIAL WORK
Code	18SWP17
	On completion of the course, students would be able to
CO-1	Understand the Basic Human rights and the mechanism to protecting the same
CO-2	Apply the Social Work methods in safeguarding Human Rights

Course Title	Core INDUSTRIAL RELATIONS
Code	18SWP20A
	On completion of the course, students would be able to
CO-1	Carry out the Various Statutory / legal aspects in terms of ID Act & Standing Order Act, by visiting the above mandatory visits, the Practical Exposure on the same will be ensured
CO-2	Interpersonal relationship strategies and negotiation skills in the Industry

Course Title	Core HOSPITAL ADMINISTRATION
Code	18SWP20B
	On completion of the course, students would be able to
CO-1	Gain knowledge of the evolution of hospitals and its planning and organisation
CO-2	Understand the role of social workers in various departments in a hospital
CO-3	Acquire the necessary skills for a being a successful professional in the field
CO-4	Be employable in hospitals and forensic wings

Course Title	Core TRIBAL COMMUNITY DEVELOPMENT
Code	18SWP20C
	On completion of the course, students would be able to
CO-1	Critically evaluate the Tribal Community development, their lifestyle, Problems, Administration and Programmes
CO-2	Apply knowledge to ensure sustainable development of rural communities
CO-3	Utilize their knowledge and skills to address Emerging Issues in Tribal Community Development

Course Title	Core HUMAN RESOURCE MANAGEMENT AND HUMAN RESOURCE DEVELOPMENT
Code	18SWP21A
	On completion of the course, students would be able to
CO-1	Develop managerial skills in different functional areas of management with practical focus on HRM and HRD
CO-2	Develop sound theoretical base in various concepts and theories to enable the student to develop a broad perspective of the management field
CO-3	Distinguish the strategic approach to Human Resources from the traditional functional approach
CO-4	Understand the relationship of HR strategy with overall corporate strategy

Course Title	Core PSYCHIATRIC SOCIAL WORK
Code	18SWP21B
	On completion of the course, students would be able to
CO-1	Have an understanding the theoretical aspects of various psychotherapeutic interventions
CO-2	Acquire the necessary skills to apply these interventions to different psychiatric disorders
CO-3	Competently work as arehabilitation professional

Course Title	Core SOCIAL ENTREPRENEURSHIP & SOCIAL ENTERPRISES
Code	18SWP21C
	On completion of the course, students would be able to
CO-1	Use the acquired knowledge to become social entrepreneurs themselves or develop social entrepreneurship in the community
CO-2	Participate effectively in various aspects of development
CO-3	Implement participatory planning and management to bring about development

Course Title	Core COUNSELLING
Code	18SWP22
	On completion of the course, students would be able to
CO-1	Exhibit knowledge on fundamental theories & approaches and essential competencies of a professional counselor
CO-2	Create an appropriate attitude & climate for establishing a counseling relationship, identify & respond to ethical dilemmas, transference, & counter-transference issues
CO-3	Demonstrate the use of a variety of counseling skills in various counseling situations
CO-4	Demonstrate knowledge of the therapist's role and the values by which the therapist conducts counseling

Course Title	Discipline Specific Elective – I CORPORATE SOCIAL RESPONSIBILITY
Code	18SWP23A
	On completion of the course, students would be able to
CO-1	Understand the scope and complexity of corporate social responsibility
CO-2	Gain knowledge on the impact of CSR implementation on corporate culture, particularly as it relates to social issues
CO-3	Acquire skills to frame CSR policies and practices appropriate to the Indian workplace

Course Title	Discipline Specific Elective – II SCHOOL SOCIAL WORK
Code	18SWP23B
	On completion of the course, students would be able to
CO-1	Develop skills in engagement, assessment and intervention with varied school constituents, including pupils, parents, administrators, support staff families and community
CO-2	Understand the multiple roles social workers can assume and selectively use within the home- school- community domain

Course Title	Interdisciplinary INDUSTRIAL RELATIONS AND LABOUR WELFARE
Code	18PSP14
	On completion of the course, students would be able to
CO-1	Know the concept and bases of Labour welfare and Industrial Relations
CO-2	Demonstrate on functions of labour welfare and Industrial Relation at National and International level

Course Title	Generic Elective Course – Cluster – III SOCIAL PROBLEMS AND SOCIAL WORK INTERVENTIONS
Code	
	On completion of the course, students would be able to
CO-1	Understand social problems and its impact on the society, various issues and challenges
CO-2	Clarity about social issues and challenges in the social work field



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Programme: MATamil

Programme Outcomes

	On completion of the programme, the student will be able to
PO-1	இலக்கியங்களின்பரந்துபட்டதன்மைகளைஅறிந்துகொண்டதன்வழியாகவாழ்வியல் முறைகளைப்புரிந்துகொண்டனர்
PO-2	இலக்கியங்களைநுட்பமாகமதிப்பிடவும்ஆராயவும்திறன்பெற்றனர்
PO-3	மொழிவளத்தைப்பேணும்வகையில்இலக்கணநுணுக்கங்களைக்கோட்பாடுகளின் வழியாகஅறிந்துகொண்டனர்
PO-4	படைப்பாக்கப்பயிற்சியின்வழியேசிறந்தபடைப்புகளைஉருவாக்கும்திறன்பெற்றனர்

Programme Specific Outcomes

	On completion of the programme, the student will be able to
PSO-1	இலக்கியங்களின்வழிஇயற்கை, சமுதாயம், தத்துவம், மனிதமனம்குறித்தான ஆராய்ச்சிநுட்பத்தைக்கண்டறியும்ஆளுமைபெற்றனர்
PSO-2	இலக்கியஇலக்கணங்களைக்கற்றதன்வழி, போட்டித்தேர்வுகளைஎதிர்கொள்ளும் ஆற்றல்அடைந்தனர்
PSO-3	பன்முகத்தன்மைவாய்ந்தஇலக்கியங்களைக்கற்றதன்விளைவாகசமூகத்துடன் ஒத்திசைந்து வாழும் வகையை உணர்ந்தனர்

Course Outcomes

Course Title	இலக்கணம் -I தொல்காப்பியம் – எழுத்ததிகாரம் -இளம்பூரணம்
Code	18TAP01
	On completion of the course, students would be able to
CO-1	எழுத்துக்களைப் பிழையின்றிப் பேசவும் எழுதவும் துணை செய்கிறது
CO-2	தமிழ் இலக்கணத்தின் தன்மையினை அறிந்து கொள்ள உதவி செய்கிறது
CO-3	எழுத்திலக்கணக் கோட்பாடுகளையும், ஒலிப்பு முறைகளையும் காலமாற்றத்திற்கு ஏற்ப சொற்களின் தன்மையை அறிந்து கொள்ள உதவிசெய்கிறது

Course Title	இக்கால இலக்கியம்
Code	18TAP02
	On completion of the course, students would be able to
CO-1	பாரதி காலத்திற்குப் பிறகு வளர்ந்து வந்த இலக்கிய வடிவங்களை அறிந்து கொண்டனர்
CO-2	புத்திலக்கியங்களின் பாடுப்பொருள் சமூகப் பிரச்சனைகள் சார்ந்து இருப்பதைத் தெரிந்து கொண்டனர்
CO-3	புதிய கதைகள், கவிதைகள் படைக்க தொன்மங்களைப் பயன்படுத்தலாம் என்கிற உத்திமுறையில் தெளிவடைந்தனர்
CO-4	மாணவர்களுக்குக் கவிதை, கதை, நாவல், கட்டுரை இயற்றும் ஆவல் ஏற்பட்டுள்ளது
CO-5	இலக்கியங்கள் வழி சமூகத்தைப் பார்க்கும் பார்வை ஏற்பட்டுள்ளது

Course Title	இலக்கியக் கொள்கைகளும் திறனாய்வுக்கோட்பாடுகளும்
Code	18TAP03
	On completion of the course, students would be able to
CO-1	மிகநுட்பமாக இலக்கியங்களைமதிப்பிடவும் ஆராயவும் திறன் பெறுவர்
CO-2	சிறந்ததினாய்வாளராக, விமர்சகர்களாக ஆளுமைத்திறன் பெறுவர்

Course Title	மக்கள் வழக்காற்றியல்
Code	18TAP04
	On completion of the course, students would be able to
CO-1	மக்கள் மரபுவழிப் பண்பாடு-அறிவியல் தொழில்நுட்பம் - பயன்பாட்டு வாழ்வை இன்றைய தலைமுறை அறிந்து பயன்கொள்ளச் செய்தல்

Course Title	இலக்கணம் - 2 தொல்காப்பியம் –சொல்லதிகாரம்
Code	18TAP05
	On completion of the course, students would be able to
CO-1	தமிழ் மொழியின் சொற்கள் வழங்கும் விதத்தினை மாணவர்கள் அறிந்துகொண்டனர்
CO-2	பல்வேறுவகையான சொல் பிரிவுகளைத் தெரிந்து கொண்டனர்
CO-3	மரபுச் செய்யுளில் சொற்கள் பயன்படுத்தப் பட்ட முறையினை அறிந்துகொண்டனர்
CO-4	சிறிய ஒலிக்கூறுகள் பொருள் மாறுபாட்டை ஏற்படுத்துவதை உணர்ந்து கொண்டனர்
CO-5	தொல்காப்பியம் நன்னூல் இரண்டையும் ஒப்பு நோக்கி சொற்கள் பொருள் கொள்ளும் தன்மையை அறிந்து கொண்டனர்
CO-6	அகராதி இயலுக்குச் சொல்லதிகாரம் அடிப்படையாய் அமைந்திருப்பதைக் கண்டுகொண்டனர்
CO-7	தொல்காப்பிய நூற்பாக்களுக்குத் தற்கால சான்றுகளைத் தரும் முயற்சியில் ஈடுபட்டனர்

Course Title	பக்தி இலக்கியமும் சிற்றிலக்கியமும்
Code	18TAP06
	On completion of the course, students would be able to
CO-1	மனித மனத்தினைப் பக்தி இலக்கியங்களும் சிற்றிலக்கியங்களும்பண்படுத்துவதை அறிந்து கொண்டனர்
CO-2	தமிழ் வளர்ச்சியில் பக்தி இலக்கியங்களும் சிற்றிலக்கியங்களும் செலுத்திய பங்கினை அறிந்து கொண்டமை
CO-3	யாப்பின் முறைமையைப் பன்முக நிலையில் உணர முடிந்தமை
CO-4	சிற்றிலக்கியங்களின் வாயிலாகப் படைப்பாளுமைத் திறம், கவி நயங்கள் ஆகியவற்றை உணர்ந்து கொண்டமை

Course Title	ஒப்பிலக்கியம்
Code	18TAP07
	On completion of the course, students would be able to
CO-1	இணை இலக்கியங்கள் அறிமுகப்படுத்தப்பட்டன
CO-2	கொள்கைகள் கோட்பாடுகளின் வழியே ஒப்பிலக்கிய ஆய்வுமுறைகள் அறிமுகப்படுத்தப்பட்டன
CO-3	மாணவர்கள் பயிற்சியின் வழியே படைப்புகளை ஒப்பியல் நோக்கில் அணுகினர்

Course Title	ஊடகவியல்(விருப்பப்பாடம் - I)
Code	18TAP08A
	On completion of the course, students would be able to
CO-1	ஊடகச் செயல்பாடுகள் மற்றும் ஊடகங்களின் மக்கள் பணி குறித்து அறியப்பட்டது
CO-2	தன் முயற்சியாக இதழ்களைக் கொண்டு வருகின்ற ஆர்வம் ஏற்பட்டுள்ளது
CO-3	தொலைக்காட்சி ஊடகத்தில் செய்திவாசித்தல் செய்திகளை முறைப்படுத்துதல் போன்ற பணிகள் குறித்த புரிதல் ஏற்பட்டுள்ளது

Course Title	சுற்றுலாவியல் (விருப்பப்பாடம் -I)
Code	18TAP08B
	On completion of the course, students would be able to
CO-1	கற்பதன் மூலம் மாணவர்களிடையே தன்னம்பிக்கை மலர்கிறது
CO-2	தமிழ் கற்கும் மாணவர்களுக்கு சுற்றுலாத்துறையில் வேலைவாய்ப்பு புதிய அறிமுகமாக அமைகிறது
CO-3	மாணவர்களின் நுட்பமான உள்ளார்ந்த கலை உணர்வுகளை வெளிக்கொணர உதவுகிறது
CO-4	இயற்கை எழில்மிகுந்த அழிந்துவரும் இயற்கையின் மீதான ஈடுபாடும் விழிப்புணர்வும் ஏற்படுகிறது. இயற்கையைப் பாதுகாக்கும் எண்ணம் மேலோங்குகிறது

Course Title	இலக்கணம் - III தொல்காப்பியம் –பொருளதிகாரம் -இளம்பூரணம்
Code	18TAP09
	On completion of the course, students would be able to
CO-1	வாழ்வியல் மதிப்புகளின் பயன்பாட்டை உணர்ந்து கொண்டனர்
CO-2	இலக்கணக் கட்டமைப்பு குறித்த அறிவு பெற்றனர்
CO-3	இலக்கிய கோட்பாடுகள் குறித்தான திறனாய்வுச் சிந்தனைகளைத் தெளிந்தனர்
CO-4	ஒப்பீட்டுப் பார்வையில் இலக்கணக் கருத்துகளை அணுகும் திறன் பெற்றனர்
CO-5	உரைநூட்பங்களை அறிந்து கொள்வதன் வாயிலாக ஆராய்ச்சி மேம்பாட்டுத்திறன் பெற்றனர்

Course Title	காப்பியங்களும் கோட்பாடுகளும்
Code	18TAP10
	On completion of the course, students would be able to
CO-1	காப்பியங்களையும் அவைகளின் பாடுபொருளையும் அறிந்து கொள்ள முடிந்தது
CO-2	தமிழ்க்காப்பியங்களின் வழி அக்காலத்திய சமூக அரசியல் அமைப்பை அறிந்து கொள்ள முடிந்தது
CO-3	காப்பியங்களின் வடிவங்களை ஒப்பு நோக்க முடிந்தது
CO-4	காப்பியம் –புதினம் இரண்டையும் ஒப்பு நோக்கும் பார்வை உருவாகி இருக்கிறது

Course Title	அரங்கியல்
Code	18TAP11
	On completion of the course, students would be able to
CO-1	தமிழக வரலாற்றில் பல்வேறு வகையிலான நிகழ்த்துக்கலை வடிவங்கள் இருந்ததை அறியமுடிந்தது
CO-2	நாடக வடிவங்களை இனம் காண முடிந்தது
CO-3	சமூகப்பிரச்சனைகளை நாடகமாக்கும் எண்ணம் ஏற்பட்டுள்ளது
CO-4	இலக்கியப் பிரதிகளில் நாடகக் கூறுகள் இருப்பவற்றை அறிந்துகொள்ளும் ஆற்றலும் அவற்றை நாடகமாக்கும் முனைப்பும் தோன்றியுள்ளது
CO-5	தமிழக அரங்கச் செயல்பாடுகள் பற்றி அறிந்து கொள்ள முடிந்தது

Course Title	ஆய்வு நெறிமுறைகள்
Code	18TAP12
	On completion of the course, students would be able to
CO-1	ஆய்வுநெறி முறைகள் தாளைக் கற்பதன் மூலம் பொது நிலையிலான அணுகுமுறைகளைத் தாண்டி நுணுக்கமாய்க் கற்றுப் பயன் பெறமுடியும்
CO-2	ஆய்வுப்போக்குகளின் மூலம் புதிய சிந்தனைகள், கருத்துகள் ஏற்படும். முரண்பாடுகள் களையப்படும் வாய்ப்பையும் பெறுவர்
CO-3	இலக்கியம், இலக்கணம் மற்றும் அனைத்துத் துறை சார்ந்த விழுமியங்களை ஆய்வதற்கு அடிப்படையாய் அமையும்

Course Title	தமிழ் மொழி வரலாறும், திராவிட மொழிகளின் ஒப்பிலக்கணமும்
Code	18TAP14
	On completion of the course, students would be able to
CO-1	காலந்தோறும் தமிழ்மொழியின் நிலை குறித்த மொழியியல் திறனை வரலாற்று மொழியியல் அணுகுமுறையில் பெறுதல்
CO-2	மொழிக்குடும்பங்களின் அமைப்பினை ஒப்பீட்டு மொழியியல் பார்வையில் அறிந்து கொள்வதற்கான திறன் பெறுதல்
CO-3	திராவிட மொழிக்குடும்பம் குறித்த வாழ்வியலும் வரலாறும் பற்றிய அறிவு பெறுதல்
CO-4	போட்டித்தேர்வுகளுக்குப் பயன்படும் வகையில் மொழியியல் குறித்தான பரிமாணங்களை உணரப் பெறுதல்

Course Title	தொன்மை இலக்கியம்
Code	18TAP15
	On completion of the course, students would be able to
CO-1	உலகத்தின் மூத்தகுடி தமிழ்க்குடி என்ற பெருமையை மாணவர் உணருவர்
CO-2	போட்டித்தேர்வுகளுக்குத் தயார்ப்படுத்திக் கொள்வர்
CO-3	சங்ககாலப் பாடல்களுக்கு நாடக ஆக்கம் தரும் திறனையோ, திரைக்கதையாக்கம் தரும் திறனையோ பெறுவர்

Course Title	மொழிபெயர்ப்பியல்
Code	18TAP16
	On completion of the course, students would be able to
CO-1	மொழி பெயர்ப்புத் துறையின் பல்வேறு கொள்கைகளையும் நுணுக்கங்களையும் பயின்றதன் மூலம் மொழிகளின் பரிணாமங்களையும் அமைப்பு முறைகளையும் அறிந்தனர். பயிற்சிகளின் மூலம் மாணவர்கள் மொழிபெயர்ப்புத்திறன் வளர்ச்சியுற்றது.

Course Title	தமிழர் கலைகள்(விருப்பப்பாடம் -II)
Code	18TAP17A
	On completion of the course, students would be able to
CO-1	மாணவர்கள் சங்ககாலம் முதல் தற்காலம் வரை தமிழக நிலப்பரப்பில் இருந்து வரும் கலைகளை அறிந்து கொண்டனர்
CO-2	தமிழகக் கோவில்களில் இருக்கும் சிற்பங்களையும் ஓவியங்களையும் பார்க்கும் பார்வை மாறி இருக்கிறது
CO-3	கூத்துக்கலையை மாணவர்கள் அறிந்து கொண்டு கல்லூரி விழாக்களின் ஒரு பகுதியாக கூத்தினை நிகழ்த்த வேண்டும் என்கிற எண்ணம் ஏற்பட்டிருக்கிறது
CO-4	மேற்கால கலைகளைத் தவிர்த்து நிலம் சார்ந்த கலைகளை ஆதரிக்கும் எண்ணம் ஏற்பட்டிருக்கிறது
CO-5	தற்காலத்தில் வாழ்ந்து வரும் மரபுக்கலைஞர்களை அறிந்து கொண்டுள்ளனர்
CO-6	கலையம்சம் மிக்க கோயில்களுக்குச் செல்லும் ஆர்வம் ஏற்பட்டிருப்பதோடு கோவில் பற்றிய கண்ணோட்டம் மாறியிருக்கிறது
CO-7	ஏதோ ஒரு கலையைக் கற்றுக்கொள்ளும் ஆர்வம் ஏற்பட்டிருக்கிறது

Course Title	கொங்கு நாட்டு வரலாற்றியல்(விருப்பப்பாடம் -II)
Code	18TAP17B
	On completion of the course, students would be able to
CO-1	கொங்கு மண்ணின் வரலாற்றுச் சிறப்புகள், தனித்தன்மைகள், இம்மண்ணில் பயிலும் மாணவர்களுக்குப் பெருமை தரக்கூடிய விதத்தில் தன்னம்பிக்கை அளிக்கிறது

Course Title	படைப்பிலக்கியமும் திறனாய்வும்
Code	Generic Elective Course – Cluster – III
	On completion of the course, students would be able to
CO-1	ஒரு படைப்பைப் புரிந்து கொள்ளும் ஆற்றல் ஏற்பட்டுள்ளது. படைப்பு உருவாகும் காரணிகளை அறிந்து கொண்டனர்
CO-2	கவிதை சிறுகதை போன்ற படைப்புகளை இயற்றும் தன்னம்பிக்கையும் முயற்சியும் ஏற்பட்டுள்ளது
CO-3	படைப்பைப் பார்க்கின்றப் பார்வை மாறி இருக்கிறது. படைப்பிற்குப் பின்னால் இருக்கும் அரசியல் காரணிகளை அறிந்து கொள்ளும் முனைப்பு ஏற்பட்டுள்ளது
CO-4	நூல்களைத் திறனாய்வு செய்யும் ஆவல் பிறந்திருக்கிறது
CO-5	சமூகத்திற்குப் பயனளிக்கும் படைப்பை உருவாக்கும் எண்ணம் ஏற்பட்டுள்ளது



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PSG College of Arts & Science Coimbatore – 641 014

Programme: MA English

Programme Outcomes

	On completion of the programme, the student will be able to
PO-1	Become knowledgeable in the subject of English Literature 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 Literature
PO-3	Understand and appreciate professional ethics, community living and nation building initiatives
PO-4	Trace the English canon who are representatives of the age
PO-5	Analyze the elements of language
PO-6	Identify distinct scholarship of writers
PO-7	Acquaint with the contemporary literary texts and theories
PO-8	Appreciate and inculcate divergent culture

Programme Specific Outcomes

	On completion of the programme, the student will be able to
PSO-1	Apply the knowledge of English language in the domain of Literature
PSO-2	Solve the complex problem in the field of human behavior with an understanding of the societal, legal and cultural impacts of the solution
PSO-3	Demonstrate knowledge in literary genres
PSO-4	Form a part of member in a team with right attitudes
PSO-5	Conceptualize literary knowledge
PSO-6	Acquire language pedagogy

Course Outcomes

Course Title	Core BRITISH LITERATURE I
Code	18ENP01
	On completion of the course, students would be able to
CO-1	Appreciate the role of literary genres from fifteenth century onwards through language growth
CO-2	Interpret the interconnectivity of natural events and philosophies
CO-3	Recognize the work of art that introduces new territory of learning
CO-4	Understand and compare the various genres with the literature of the present

Course Title	Core INDIAN WRITING IN ENGLISH
Code	18ENP02
	On completion of the course, students would be able to
CO-1	Gain knowledge of the major traditions of literatures written in English, and an appreciation for the diversity of literary and social voices
CO-2	Develop a passion for language and Indian literature through the background study
CO-3	Express their own ideas as informed opinions that are in dialogue with a larger community of interpreters
CO-4	Explore the entire range of human experience in Indian Literature
CO-5	Develop an ability to read texts in relation to their historical and cultural contexts

Course Title	Core THE STUDY OF ENGLISH LANGUAGE
Code	18ENP03
	On completion of the course, students would be able to
CO-1	Gain knowledge in the history of English language
CO-2	Define the areas of graphology, phonology and supra segmental features in phonology
CO-3	Analyze the areas of morphology, grammar, semantics, pragmatics, stylistics and discourse analysis
CO-4	Explore the other branches of linguistics

Course Title	Core AMERICAN LITERATURE
Code	18ENP04
	On completion of the course, students would be able to
CO-1	Evaluate the imperative social issues of American history
CO-2	Interpret human diversity and its confrontation with the expressionistic literary medium
CO-3	Evaluate the effectiveness of theatre as an art form with social impact
CO-4	Interpret the interconnectivity of the genre of fiction to understand the world and the resultant emotional response
CO-5	Develop critical thinking skills.

Course Title	Core BRITISH LITERATURE-II
Code	18ENP06
	On completion of the course, students would be able to
CO-1	Interpret life from varied experience
CO-2	Appraise fact and imagination for its own merit
CO-3	Recognize collective consciousness of the society
CO-4	Evaluate the significant role of culture
CO-5	Evaluate the impact of intellectual movements in literature

Course Title	Discipline Specific Elective – I POSTCOLONIAL LITERATURE
Code	18ENP07A
	On completion of the course, students would be able to
CO-1	Analyze the racial discrimination, impact, sufferings and problems of colonized countries
CO-2	Enable to criticize new perspectives on commonwealth countries and postcolonial literature
CO-3	Enable the learners to appreciate the Postcolonial poetry, criticism, novels and plays

Course Title	Discipline Specific Elective – II INTRODUCTION TO EDUCATIONAL TECHNOLOGY
Code	18ENP07B
	On completion of the course, students would be able to
CO-1	Practice the concept of Educational Technology
CO-2	Expertise in learning English Language through e-learning

Course Title	Core LITERARY CRITICISM AND THEORY – I
Code	18ENP08
	On completion of the course, students would be able to
CO-1	Judge and understand the basic concepts of criticism
CO-2	Construe and restructure any genre with critical theories
CO-3	Infer and evaluate the basic concepts of Literature and culture
CO-4	Apply critical frameworks and methodologies, specific theoretical concepts, and terms to literary and cultural texts
CO-5	Evaluate the present and future literary work

Course Title	Core ENGLISH LANGUAGE TEACHING (ELT) AND EDUCATIONAL TECHNOLOGY
Code	18ENP09
	On completion of the course, students would be able to
CO-1	Outline the origins and recent trends in ELT
CO-2	Comprehend and apply the theories of ELT into their lesson plans
CO-3	Design lesson plans that are relevant to present generation
CO-4	Design meaningful assessment methods for students
CO-5	Use technology in their lessons

Course Title	Core ECO-LITERATURE
Code	18ENP10
	On completion of the course, students would be able to
CO-1	Evaluate the interconnection between nature and literature
CO-2	Gain deeper understanding of conserving Nature
CO-3	Develop an ethical and environmental consciousness.
CO-4	Appreciate the symbiotic relationship between nature and human
CO-5	Develop critical understanding of eco-critical theories

Course Title	Core BRITISH LITERATURE-III
Code	18ENP11
	On completion of the course, students would be able to
CO-1	Relate the characteristics of the period to the poets and poems
CO-2	Identify the noble aims of literature
CO-3	Recognize the representations of culture in writings
CO-4	Critique belief systems as evident in the text
CO-5	Comprehend the social system of ages

Course Title	Core RESEARCH METHODOLOGY
Code	18ENP12
	On completion of the course, students would be able to
CO-1	Carry out a minor research
CO-2	Analyze critically and apply innovative style in writing without Plagiarism
CO-3	Frame Hypothesis, Findings, Solutions and scope for future in writing as a Researcher

Course Title	Discipline Specific Elective – II LITERARY CRITICISM AND THEORY – II
Code	18ENP13A
	On completion of the course, students would be able to
CO-1	Remember and understand the concept of literary theories
CO-2	Interpret and ameliorate any genre with the various criticism and theories
CO-3	Analyze and evaluate the basic concepts of Literature and culture
CO-4	Define and apply specific theoretical concepts, theories and terms to literary and Cultural texts
CO-5	Strengthen critical reading, writing and interpretive practices

Course Title	Discipline Specific Elective – II STUDY OF AN AUTHOR –D.H.LAWRENCE
Code	18ENP13B
	On completion of the course, students would be able to
CO-1	Think critically by comparing and contrasting themes, texts and illustrations and make connections with author's life
CO-2	Forge a deep attachment to books
CO-3	Explain the different kinds of literary voices and styles

Course Title	Core WOMEN'S WRITING
Code	18ENP14
	On completion of the course, students would be able to
CO-1	Classify the characteristics of the women writers across the Globe
CO-2	Examine the concepts, theories and themes applied in women writing on various genres
CO-3	Explain the struggles to create a School for women based on their sufferings and problems

Course Title	Core BRITISH LITERATURE IV
Code	18ENP16
	On completion of the course, students would be able to
CO-1	Recognize and relate poetic style, along with its content to life
CO-2	Modify the environment based on the knowledge acquired
CO-3	Interpret and reconstruct the knowledge attained through involvement
CO-4	Produce novelty in life through different approaches
CO-5	Collect inputs from twentieth and twenty-first century literature and synthesise

Course Title	Core AN INTRODUCTION TO WORLD LITERATURE
Code	18ENP17
	On completion of the course, students would be able to
CO-1	Interpret the convergence of literature and civilization
CO-2	Evaluate the richness of the Indian classic tradition
CO-3	Analyze the experience of the universality of the modern philosophies
CO-4	Critique the influence of western ideas on culture and tradition
CO-5	Identify the practical nuances in transference from one genre to the other

Course Title	Core EXPLORING RECENT TRENDS IN LITERATURE
Code	18ENP18
	On completion of the course, students would be able to
CO-1	Demonstrate ability to write a travelogue based on day to day individual participation in a journey
CO-2	Express a justified opinion on a particular personal issue
CO-3	Enjoy the experience of literary ability through elicit feeling, cultivate imagination and achieve humanity
CO-4	Understand and appreciate poetry as literary form and revel the language of poetry
CO-5	Change in whole perspective and improves as a person

Course Title	Core ADVANCED ASPECTS OF TRANSLATION STUDIES
Code	18ENP19
	On completion of the course, students would be able to
CO-1	Broaden and deepen understanding of different perspective in tradition, culture aspects under translation
CO-2	Implementation of translation skills to high level whilst integrating practical with professional with professional and theoretical insight
CO-3	Helps to analyze and implement the diverse approaches to the translation work
CO-4	Enable them to get acquainted with various genres of language and evaluate their capabilities of problem solving skills
CO-5	Expand the critical Thinking of strategies and techniques on language usage in translation

Course Title	Core APPROACHES TO SHAKESPEARE
Code	18ENP20
	On completion of the course, students would be able to
CO-1	Insight into the principles & the philosophy of Shakespeare
CO-2	Acquaint with the creative images and techniques of Shakespeare works
CO-3	Critically appreciate the works of Shakespeare
CO-4	Deconstruct Shakespeare as a contemporary author
CO-5	Ameliorate the significance of formal and aesthetic categories of literary criticism

Course Title	PROFICIENT ENGLISH FOR PROFESSIONALS
Code	Generic Elective Course (Cluster IDC) – Cluster IV
	On completion of the course, students would be able to
CO-1	Understand relationship between ideas and make observations and suppositions about spoken discourse
CO-2	Have increased general critical thinking ability
CO-3	Have enriched vocabulary, analytical skills and aptitude for quick thinking
CO-4	Express ideas with confidence and clarity, supporting persuasive and logical arguments and present information in an organized structure so as to achieve a specific business objective
CO-5	Recognize and locate the role of soft skills in real life situations



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PSG College of Arts & Science Coimbatore – 641 014

Programme: MA Journalism and Mass Communication

Programme Outcomes

	On completion of the programme, the student will be able to
PO-1	Become knowledgeable in the subjects of Communication 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 Communication
PO-3	Understand and appreciate professional ethics, community living and nation building initiatives
PO-4	Present messages in multiple communication modalities and contexts
PO-5	Evaluate and analyze the media content in different context

Programme Specific Outcomes

	On completion of the programme, the student will be able to
PSO-1	Apply the knowledge of Communication in the domain of Mass Media
PSO-2	Solve the complex problems in the field of Communication with an understanding of the societal, legal and cultural implications
PSO-3	Utilize the knowledge acquired through this programme and will be a harbinger in the field of Mass Communication and Journalism
PSO-4	Form a part of a team with right attitudes

Course Outcomes

Course Title	Core COMMUNICATION MODELS AND THEORIES
Code	18MCP01
	On completion of the course, students would be able to
CO-1	Understand the theoretical bases of communication practices; with special referenceto the contemporary societal structure
CO-2	Evaluate and apply theoretical perspectives in addressing demands in their personaland professional lives

Course Title	Core REPORTING AND EDITING
Code	18MCP02
	On completion of the course, students would be able to
CO-1	Understand the newsgathering and presentation process
CO-2	Analyze the news coverage in various media

Course Title	Core INDIAN CONSTITUTION AND MEDIA LAWS
Code	18MCP03
	On completion of the course, students would be able to
CO-1	Apply ethical principles and practices to their work
CO-2	Articulate the legal dimensions of news

Course Title	Core GRAPHIC DESIGN AND PRODUCTION
Code	18MCP04
	On completion of the course, students would be able to
CO-1	Gain working knowledge in the areas like digital printing and colour printing
CO-2	Practice trends in packaging of publications, while acquiring the skills of print media production

Course Title	Core PRACTICAL I : PRINT PRODUCTION
Code	18MCP05
	On completion of the course, students would be able to
CO-1	Gain knowledge, practical experience in print production

Course Title	Core PRACTICAL II : EDITORIAL PRACTICES
Code	18MCP06
	On completion of the course, students would be able to
CO-1	Gain knowledge, practical experience in recording, editing and post production
CO-2	There will be an opportunity to gain an insight into various production areas

Course Title	Core ADVERTISING
Code	18MCP07
	On completion of the course, students would be able to
CO-1	Understand and respond to the needs of the advertising world
CO-2	Express their creativity and advertising sense through works

Course Title	Core ENVIRONMENTAL COMMUNICATION
Code	18MCP08
	On completion of the course, students would be able to
CO-1	Plan and execute an environmental campaign
CO-2	Identify ways and models to solve the conflicts in environmental communications

Course Title	Discipline Specific Elective – I NEW MEDIA STUDIES
Code	18MCP09A
	On completion of the course, students would be able to
CO-1	Define the concept of digital media
CO-2	Describe telecommunication, internet and wireless technology
CO-3	Relate new media theories
CO-4	Compose content for new media

Course Title	Discipline Specific Elective – I BROADCASTING AND ONLINE JOURNALISM
Code	18MCP09B
	On completion of the course, students would be able to
CO-1	Develop necessary skills to become online journalists

Course Title	Core MEDIA, SOCIETY & CULTURE
Code	18MCP10
	On completion of the course, students would be able to
CO-1	Explore core social theory
CO-2	Understand the social values of the society

Course Title	Core PRACTICAL III: PHOTOGRAPHY
Code	18MCP11
	On completion of the course, students would be able to
CO-1	Adapt various techniques and skills in photography
CO-2	Display their visual documentations

Course Title	Core PRACTICAL IV: DIGITAL MEDIA PRODUCTION
Code	18MCP12
	On completion of the course, students would be able to
CO-1	Gain knowledge, practical experience in Digital Media Production

Course Title	Core FILM STUDIES
Code	18MCP13
	On completion of the course, students would be able to
CO-1	Critically evaluate film as a text
CO-2	Provides conceptual frameworks for understanding film's relationship to reality and the other arts

Course Title	Core COMMUNICATION RESEARCH METHODS
Code	18MCP14
	On completion of the course, students would be able to
CO-1	Conduct media research by making use of any of the research methods
CO-2	Write report after evaluation, analysis and interpretation of media content

Course Title	Discipline Specific Elective – II TELEVISION AND RADIO PRODUCTION
Code	18MCP15A
	On completion of the course, students would be able to
CO-1	Gain working knowledge in sound recording and editing, script writing, planning, producing, presenting, and live broadcasting
CO-2	Gain an in-depth insight into areas such as pre-recording and live studioproducing as well as outside broadcast coverage of live events

Course Title	Discipline Specific Elective – II MEDIA AND POLITICS
Code	18MCP15B
	On completion of the course, students would be able to
CO-1	Analyze political propaganda and the role of media
CO-2	Articulate the various dimensions of news

Course Title	Core PRACTICAL V: TELEVISION AND RADIO PRODUCTION
Code	18MCP16
	On completion of the course, students would be able to
CO-1	Gain knowledge, practical experience in recording, editing and post production
CO-2	Gain an insight into various production areas

Course Title	Core CONTENT DEVELOPMENT
Code	18MCP18
	On completion of the course, students would be able to
CO-1	Create content for target audience
CO-2	Know about new media audience

Course Title	Core MARKETING COMMUNICATION
Code	18MCP19
	On completion of the course, students would be able to
CO-1	Apply basic communication theories and concepts to understand the business environment for a company and understand marketing communication activities
CO-2	Undertake analysis to develop appropriate marketing communication objectives for a specified target market considering a range of media and methods available to marketers

Course Title	Core CORPORATE COMMUNICATION
Code	18MCP20
	On completion of the course, students would be able to
CO-1	Formulate an updated corporate communication strategy
CO-2	Enforce an effective campaign in the media

Course Title	Generic Elective Course (Cluster - III) DEVELOPMENT COMMUNICATION
Code	18ECP15C
	On completion of the course, students would be able to
CO-1	Understand factors governing national development
CO-2	Sensitize the need and issues of development



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Programme: MSc Applied Psychology

Programme Outcomes	
	On completion of the programme, the student will be able to
PO-1	Develop demonstrable ability in students to describe key concepts, principles, and overarching themes in psychology, and also to develop a working knowledge of psychology's content domains
PO-2	Facilitate students' understanding of the psychological principles and apply the same to individual, social and organizational issues.
PO-3	Sensitize students to acknowledge, appreciate, and accept differences, understand and follow ethical principles and practices in personal and professional contexts
PO-4	Engage students in integrative thinking, and enabling them to use scientific reasoning to interpret psychological phenomena
PO-5	Provide a strong theoretical foundation and meaningful direction for life after academic life by providing complementary skills and competence that is necessary for progressive career

Programme Specific Outcomes	
	On completion of the programme, the student will be able to
PSO-1	Provide a strong theoretical and conceptually strong base in various domain of Psychology like Industrial / Clinical / Educational / Entrepreneurship
PSO-2	Develop research acumen in students enabling them to approach any behavioral issue of concern with a holistic consideration (of societal, legal and cultural impacts etc.)
PSO-3	Provide an opportunity for self-awareness and reflection and familiarize students to the nature of the role of psychological processes operating within themselves and their environment
PSO-4	Facilitate the learners in the pursuit of life of happiness, love of learning, moral strength, and sense of abundance, and contribute to the mental and emotional well-being in oneself and others

Course Outcomes

Course Title	Core ADVANCED GENERAL PSYCHOLOGY
Code	18PSP01
	On completion of the course, students would be able to
CO-1	Understand the definition, historical development, brain and other biological aspects of behavior and cognition
CO-2	Explain the natural and altered states of consciousness, various sensation and sense organs, perception and errors in perception
CO-3	Examine the concept of learning, theories of learning, memory and its types, forgetting and its causes and the methods of improving memory
CO-4	Estimate the basic concepts of motivation, theories of motivation, emotion and its theories, stress, its consequences and management
CO-5	Evaluate the forms of cognition like concept, reasoning, problem solving, the concept of intelligence, emotional intelligence, creativity, its nature and characteristics

Course Title	Core ADVANCED SOCIAL PSYCHOLOGY
Code	18PSP02
	On completion of the course, students would be able to
CO-1	Understand the field of social psychology, social cognition and attribution
CO-2	Estimate the process of information used in person's perception and self
CO-3	Know the formation of attitude, prejudice and the social influence in conformity, compliance and obedience to authority
CO-4	Evaluate the process of inter personal attraction, personal relationships and behavior in groups
CO-5	Understand the gender behavior, helping behavior and aggression

Course Title	Core POSITIVE PSYCHOLOGY
Code	18PSP03
	On completion of the course, students would be able to
CO-1	Restate the principles underlying the science of happiness
CO-2	Examine and review the role of positive emotions on psychological wellbeing, and quality of relationships
CO-3	Analyze factors that build resilience and positive personality in an individual, and to discuss the biological bases of beliefs
CO-4	Justify the role of wisdom, virtues and mindfulness in life

Course Title	Core PERSONALITY PSYCHOLOGY
Code	18PSP04
	On completion of the course, students would be able to
CO-1	Understand the meaning and history of personality study, contemporary approaches of modern theories, and history, major concepts, structure and stages of psychoanalysis
CO-2	Analyze the major concepts, dynamics and structure of Carl Jung's Analytic Psychology, Adler's Individual Psychology, Karen Horney and Erickson theory
CO-3	Evaluate the intellectual antecedents, major concepts, factors that supports or impedes personal growth, structure & therapy, Albert Bandura's theory, Aaron Beck & cognitive therapy & its Evaluation
CO-4	Review the major concepts, dynamics, structure and therapy of Roger's Person centered perspective, Malsow's Transpersonal Psychology, Trait, proprium, development and functional autonomy of Allport's theory, Cattell's theory and its evaluation
CO-5	Understand the history, major concepts, dynamics, structure of Hindu, Zen, Buddhist, and Sufism tradition

Course Title	Core PSYCHOLOGICAL TESTING & DIAGNOSIS
Code	18PSP05
	On completion of the course, students would be able to
CO-1	Gain knowledge about the intelligence tests
CO-2	Gain the understanding of educational assesses and disability assessment
CO-3	Students will know the personality assessments an especially projective tests
CO-4	Gain knowledge about career assessments
CO-5	Take case history in the clinical setting and understand the Neuropsychological assessments

Course Title	Core EXPERIMENTAL PSYCHOLOGY: PRACTICALS – I
Code	18PSP06
	On completion of the course, students would be able to
CO-1	The student will be able to assess and interpret the cognitive and psycho-social abilities of an individual
CO-2	The student will be able to assess the various personality pattern of an individual

Course Title	Core INDIAN PSYCHOLOGY
Code	18PSP07
	On completion of the course, students would be able to
CO-1	Appraise the nature of Indian Psychology, and explain the six darshanas / purusharthas as mentioned in the Indian philosophy
CO-2	Differentiate various types of yoga, explain the eight limbs of yoga as in patanjaliyoga sutra
CO-3	Explain the therapeutic application of yoga, and alternative therapies
CO-4	Illustrate the contributions of contemporary spiritual masters
CO-5	Explain and apply the lessons from ancient Indian scriptures

Course Title	Core NEUROPSYCHOLOGY
Code	18PSP08
	On completion of the course, students would be able to
CO-1	Understand the meaning, history of neuropsychology, basic parts of the brain and their function and the various neurological disorders
CO-2	Explain the anatomical parts of the frontal lobe and temporal lobe and their dysfunction like cognitive changes, personality change aphasias and amnesias
CO-3	Discuss the anatomical parts of the parietal lobe and the dysfunctions like somatic sensory disorders, apraxia and spatial neglect
CO-4	Analyze the anatomical parts of the occipital lobe and the dysfunctions like cerebral blindness and visual agnosia and neurological basis of learning disability, cerebral palsy, autism and other disorders
CO-5	Understand the method uses of neurophysiological assessments like CT scan, MRI and EEG and the method and uses of neuropsychological assessment like BGT, LNNB, HRB and other tests

Course Title	Core LEARNING DISABILITIES AND INTERVENTION
Code	18PSP09
	On completion of the course, students would be able to
CO-1	Understand the historical perspectives and theories of learning disability
CO-2	Examine the characteristics of adolescents and adults with learning disability
CO-3	Analyze the behavioral, educational and alternative interventions for learning disability
CO-4	Evaluate the teaching strategies for oral language, reading, writing and mathematics
CO-5	Understand the educational placement, resources room, and emerging issues in the field of Learning Disability

Course Title	Core RESEARCH METHODS
Code	18PSP10
	On completion of the course, students would be able to
CO-1	Understand the meaning of the research, review of literature and various methods of data collections
CO-2	Explain the population, sampling and research hypothesis
CO-3	Analyze the experimental, non experimental and qualitative research designs
CO-4	Discuss the steps in test development, reliability and validity and norms
CO-5	Understand the structure and format of the research report and how to publish it

Course Title	Core EXPERIMENTAL PSYCHOLOGY (PRACTICAL – II)
Code	18PSP11
	On completion of the course, students would be able to
CO-1	Relate various neuro psychological and human resource aspects, administer, assess/ score, evaluate and infer the tests

Course Title	Core CLINICAL PSYCHOLOGY
Code	18PSP15
	On completion of the course, students would be able to
CO-1	Aware of historical background & Classification systems of clinical psychology & able to use the assessment methods of clinical psychology
CO-2	Explain various causes of schizophrenia, mood & somatoform disorder and do the diagnostic formulation
CO-3	Discuss about the causes and diagnostic criteria for the types of personality, dissociative and sexual disorders
CO-4	Analyse the causes and explain the symptoms of anxiety disorders & disorders of childhood and adolescents
CO-5	Identify the causes of stress and the effect of traumatic events. Gets trained in the strategies to prevent mental illness and promote mental health

Course Title	Core DEVELOPMENTAL PSYCHOPATHOLOGY
Code	18PSP16
	On completion of the course, students would be able to
CO-1	Analyse normality and abnormality in the developmental process
CO-2	Identify the deviation in development during infancy, toddler and preschool period
CO-3	Interpret the disorders in adolescence
CO-4	Apply the developmental pattern of mental disorder
CO-5	Diagnose and treat mental retardation and associated risk factors

Course Title	Core EXPERIMENTAL PSYCHOLOGY: PRACTICALS –III
Code	18PSP17
	On completion of the course, students would be able to
CO-1	Administer and involve in report writing for the Psychological tests
CO-2	Identify the severity level of the psychological processes through rating scales

Course Title	Core PSYCHOLOGY FOR COMPETITIVE EXAMINATIONS
Code	18PSP18
	On completion of the course, students would be able to
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 process

Course Title	Allied PSYCHOMETRIC METHODS AND STATISTICS
Code	18PSP21
	On completion of the course, students would be able to
CO-1	Explain the concept and properties of psychometric methods
CO-2	Apply the Principles of Test construction in tool development
CO-3	Choose appropriate Parametric and Non Parametric tests during the research projects

Course Title	Discipline Specific Elective – I PSYCHOTHERAPEUTICS
Code	18PSP22A
	On completion of the course, students would be able to
CO-1	Understand the meaning and characteristics of psychotherapy, Psychoanalytic and Adlerian therapy
CO-2	Gain knowledge about Existential and Person centered therapy
CO-3	Get better understanding about Gestalt and Reality therapy
CO-4	Learn how to Apply Behaviour therapy, REBT& Cognitive therapy wherever necessary
CO-5	Gain knowledge about recent updates of psychotherapies

Course Title	Discipline Specific Elective – I BEHAVIOUR MODIFICATION
Code	18PSP22B
	On completion of the course, students would be able to
CO-1	Gain the knowledge the Behaviour Modification, History and Observing and recording behaviour
CO-2	Grasp the basic principles of behaviour modification
CO-3	Learn the procedures to establish new behaviour
CO-4	Gain the Procedures to increase Desirable Behaviour and Decrease Undesirable Behaviour
CO-5	Acquire the knowledge about Other Behaviour Change Procedures

Course Title	Core ORGANIZATIONAL BEHAVIOR
Code	18PSP24
	On completion of the course, students would be able to
CO-1	Examine and explain the historical evolution of field of organizational behavior
CO-2	Apply and understand the group development processes, and apply the knowledge / insight to life and profession
CO-3	Assess the qualities of leader / leadership that is appropriate to different organizational context
CO-4	Appraise the organizational process in decision-making, problem solving and change management

Course Title	Core MARKETING AND CONSUMER BEHAVIOR
Code	18PSP25
	On completion of the course, students would be able to
CO-1	Explain the marketing concepts, environmental scanning, and marketing Intelligence
CO-2	Apply and understand the micro and macro environmental forces that impacts the business, and the market research process
CO-3	Assess the marketing Segments, Targets, and Positions product / service / brand
CO-4	Elaborate on integrated marketing communication, channel management, dealing with competition, and creating brand equity

Course Title	Core COUNSELLING PSYCHOLOGY
Code	18PSP26
	On completion of the course, students would be able to
CO-1	Understand counselling and its related fields
CO-2	Different approaches to counselling, counselling process and skills of counsellor
CO-3	Psychological tests and their use in counselling, interview techniques in counselling
CO-4	Individual and group counselling, educational counselling
CO-5	Special areas in counselling, guidance and counselling movements in India

Course Title	Core HEALTH PSYCHOLOGY
Code	18PSP27
	On completion of the course, students would be able to
CO-1	Explain the definition, need for health psychology, Bio-Psycho socio model and various systems of the body
CO-2	Demonstrate the Health behaviours, changing health habits, cognitive and behavioural approach to health behaviour, health enhancing behaviours like exercise, Accident prevention, cancer related health behaviours, managing healthy diet and weight control smoking intervention and prevention
CO-3	Relate the concept of stress, its theoretical contribution, Assessment, stressful life events, sources and moderators of stress, coping strategies and stress management
CO-4	Evaluate the meaning and need of health services, using and misusing health services. Patient provider relations, nature of communication, improving adherence , Nature, measurement, causes of pain and its control techniques
CO-5	Discuss the meaning and management, emotional responses, rehabilitation and psychological interventions of chronic illness, terminal illness, and psychological management of terminally ill & health psychology trends for the future

Course Title	Core CASE ANALYSIS: PRACTICAL – IV
Code	18PSP28
	On completion of the course, students would be able to
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

Course Title	Core PROFESSIONAL SKILLS: PRACTICALS – V
Code	18PSP29
	On completion of the course, students would be able to
CO-1	Gain knowledge about case history, rating scales, basic biological and Psycho-diagnostic measures
CO-2	Get better understanding to apply various relaxation techniques wherever necessary
CO-3	Gain a practical knowledge about Psychotherapeutic procedures
CO-4	Expand the knowledge involved in the process/techniques of Research publication

Course Title	Discipline Specific Elective - II HUMAN RESOURCE MANAGEMENT
Code	18PSP30A
On completion of the course, students would be able to	
CO-1	Explain nature, significance and functions of HRM, strategic HRM and HR policies. Able to formulate a HR policy
CO-2	Explain the importance of human resource planning and able to analyse, describe job and apply recruitment techniques in the organization
CO-3	Employ training methods and apply different techniques for the development of employees in the industries
CO-4	Evaluate and implement performance appraisal methods and explain the importance of employee empowerment
CO-5	Describe the importance of job changes and the ways to handle employees' absenteeism, turnover and health & safety issues in an organization

Course Title	Discipline Specific Elective - II ENVIRONMENTAL PSYCHOLOGY
Code	18PSP30B
On completion of the course, students would be able to	
CO-1	Experience and explain various perspectives on human-environment interrelationships
CO-2	Gain insights into the ways in which the environment influences our feelings and experiences

Course Title	Generic Elective Course UNDERSTANDING HUMAN BEHAVIOR
Code	18GECIDC
On completion of the course, students would be able to	
CO-1	Explain the basic concepts of understanding human behaviour
CO-2	Evaluate perception, intelligence and creativity
CO-3	Discuss learning and memory related concepts
CO-4	Explain, and interpret emotion its theories, stress and management
CO-5	Analyze and review the processes in personality and assessments

Course Title	Generic Elective Course APPLIED BEHAVIOURAL SCIENCE
Code	19ENP05
	On completion of the course, students would be able to
CO-1	Explain the core concept of behavioural science and psychology methods, and to know the various fields where the concept of Psychology is applied
CO-2	Identify various aspects of consciousness, attention and perception
CO-3	Illustrate the concepts like learning , memory , forgetting and motivation
CO-4	Describe the factors included in cognition, intelligence and intelligence
CO-5	Assess the theories of personality and demonstrate the skills required to provide counseling



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PSG College of Arts & Science Coimbatore – 641 014

Programme: MSc Mathematics

Programme Outcomes

On completion of the programme, the student will be able to	
PO-1	Become knowledgeable in the subject of pure and applied mathematics and apply the principles of the same to the need of the employer / institution / own business or enterprise
PO-2	Gain analytical skills in the field / area of computational mathematics with mathematical software's to develop the mathematical modeling
PO-3	Understand and appreciate professional ethics, community living and nation building initiatives
PO-4	Train computational scientists who can take on real life challenging problems
PO-5	Motivate for research in mathematical sciences and to cultivate a mathematical altitude and nurture the interest
PO-6	Promote mathematical skills and knowledge for their intrinsic beauty effectiveness in developing proficiency in analytical reasoning and utility in modeling and solving real world problem
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 to	
PSO-1	Apply the knowledge of mathematics in the domain of deterministic and probabilistic dynamical systems
PSO-2	Solve the complex problems in the field of pure & applied mathematics with an understanding of the societal, legal and cultural impacts of the solution
PSO-3	Solve the abstract problems in fluid mechanics and control systems and frame mathematical modeling of real world problems
PSO-4	Form a part of member in a team with right attitudes

Course Outcomes

Course Title	Core ALGEBRA
Code	18MAP01
On completion of the course, students would be able to	
CO-1	Have a working knowledge of important mathematical concepts such as group, subgroup, order of a finite group
CO-2	Understand the basics concepts of ring and field theory
CO-3	Acquire skills in polynomial rings and their properties
CO-4	Work with field extensions, including computing the degree of an extension and the minimal polynomial of a simple extension
CO-5	Know the basic properties of the Galois group of a field extension

Course Title	Core REAL ANALYSIS
Code	18MAP02
On completion of the course, students would be able to	
CO-1	Prove a selection of theorems concerning Riemann integrability and the Riemann Stieltjes integrability
CO-2	Recognize the difference between point-wise and uniform convergence of a sequence of functions
CO-3	Prove some of the crucial theorems of the Lebesgue theory of measure and integration

Course Title	Core ORDINARY DIFFERENTIAL EQUATIONS
Code	18MAP03
On completion of the course, students would be able to	
CO-1	Solve problems in ordinary differential equations, dynamical systems and a number of applications to scientific and engineering problems
CO-2	Demonstrate their ability to write coherent mathematical proofs and scientific arguments needed to communicate the results obtained from differential equation models
CO-3	Implement solution methods using appropriate technology and investigate the qualitative behavior of solutions

Course Title	Core MATHEMATICAL PROGRAMMING
Code	18MAP04
	On completion of the course, students would be able to
CO-1	Become proficient with tools from optimization, simulation and engineering economic analysis
CO-2	Develop the formulation with constraints of a network model as a linear program and solve the network problems
CO-3	Solve the nonlinear programming by various methods

Course Title	Core COMPLEX ANALYSIS
Code	18MAP05
	On completion of the course, students would be able to
CO-1	Understand and explain the concepts of analytic functions and Cauchy's fundamental theorem by using the elements of point-set topology
CO-2	Prove and apply the Riemann mapping theorem in analytical arcs
CO-3	Evaluate contour integration by using calculus of residues
CO-4	Represent exponentials and Fourier developments by using the general theory of elliptic functions

Course Title	Core PARTIAL DIFFERENTIAL EQUATIONS
Code	18MAP06
	On completion of the course, students would be able to
CO-1	Demonstrate how physical phenomena are modeled by differential equations and dynamical systems
CO-2	Be competent in solving linear PDEs using classical solution methods
CO-3	Be familiar in solving elliptic, parabolic and hyperbolic equations

Course Title	Core TOPOLOGY
Code	18MAP07
	On completion of the course, students would be able to
CO-1	Acquire knowledge of topological spaces and their properties
CO-2	Become proficient in properties of continuous functions on topological spaces
CO-3	Understand the countability and separation axioms and their importance in proving various theorems
CO-4	Analyze the various spaces having the properties such as connected, compact, Hausdorff, regular, normal and metrizable

Course Title	Core MATHEMATICAL STATISTICS
Code	18MAP08
	On completion of the course, students would be able to
CO-1	Know the most widely used probability distributions and recognize them in applications
CO-2	Describe a random variable through the probability density function, the cumulative distribution function, and the moment generating function
CO-3	Understand the importance of the central limit theorem
CO-4	Prove theorems and thinking out counter examples

Course Title	Core FUNCTIONAL ANALYSIS
Code	18MAP09
	On completion of the course, students would be able to
CO-1	Understand Banach spaces, which is a combination of both algebraic and metric structures and study the linear transformations on them
CO-2	Understand Hilbert Spaces, and study Hahn-Banach theorem
CO-3	Understand properties on vector spaces
CO-4	Understand Reflexive spaces and applications of reflexive spaces
CO-5	Understand the properties of compact linear operators

Course Title	Core MECHANICS
Code	18MAP10
	On completion of the course, students would be able to
CO-1	Gain basic knowledge of non relativistic classical dynamics
CO-2	Become proficient in derivation and application of Lagrange's equation
CO-3	Know the Hamiltonian viewpoint of dynamics for the canonical equations of motion and phase space
CO-4	Understand the principle of least action and Hamilton's principle
CO-5	Obtain the concrete procedures for solving problems using canonical transformations

Course Title	Discipline Specific Elective-I STOCHASTIC DIFFERENTIAL EQUATIONS
Code	18MAP11A
	On completion of the course, students would be able to
CO-1	Understand the stochastic differential equations by a more realistic mathematical model
CO-2	Know the mathematical interpretation of the "noise" term in the differential equation
CO-3	Find the solution of many stochastic differential equations using the Ito formula
CO-4	Solve the 1-D and 2-D linear filtering problems
CO-5	Become proficient in basic properties and results about Ito diffusions

Course Title	Discipline Specific Elective – I MAGNETOHYDRODYNAMICS
Code	18MAP11B
	On completion of the course, students would be able to
CO-1	Understand the fundamental laws of electromagnetism, equation of electromagnetism and boundary conditions
CO-2	Study of Fundamental laws electromagnetic equations and boundary conditions
CO-3	Study of continuous hypothesis and magnetohydrodynamics
CO-4	Study of magneto hydrostatics, Alfvén waves in MHD and Hartmann flow
CO-5	Study of stability and in stability of linear pinch

Course Title	Core OPERATOR THEORY
Code	18MAP14
	On completion of the course, students would be able to
CO-1	Understand the properties of bounded linear operators
CO-2	Understand the concepts of polar decomposition spectrum and numerical range of an operator
CO-3	Understand the spectrum of an operator and their kinds
CO-4	Understand the properties of several classes of non-normal operators and further development of bounded linear operators
CO-5	Understand different types of new operators

Course Title	Core CONTROL THEORY
Code	18MAP15
	On completion of the course, students would be able to
CO-1	Understand the basic theory and methodology for designing control systems
CO-2	Solve observability problems of linear and nonlinear systems
CO-3	Become proficient in stability analysis of linear and nonlinear systems
CO-4	Know the stabilization of control systems
CO-5	Solve optimal control problems

Course Title	Core FLUID DYNAMICS
Code	18MAP16
	On completion of the course, students would be able to
CO-1	Understand the general picture of fluid mechanics and its related fields
CO-2	Derive the governing equations such as continuity equation, momentum equation and energy equation
CO-3	Obtain the derivation of Navier-Stokes equation and Euler equation for viscous / inviscid compressible/incompressible fluids
CO-4	Understand the velocities of flow between two parallel plates, rotating cylinder
CO-5	Obtain the boundary layer equations in 2-D's and integral equations for boundary layer

Course Title	Discipline Specific Elective – II COMPUTATIONAL METHODS (THEORY)
Code	18MAP17A
	On completion of the course, students would be able to
CO-1	Demonstrate how numerical techniques can be applied in real-life situations and find the ways to solve it
CO-2	Know the several numerical techniques to solve the initial-value problems and the system of equations
CO-3	Solve the boundary-value problems using the Linear Shooting method and the Finite-Difference method
CO-4	Solve the elliptic, parabolic and hyperbolic PDE's using the Finite- Difference method
CO-5	Provide a foundation for further study of numerical analysis and scientific computing

Course Title	Discipline Specific Elective – II MATLAB (THEORY)
Code	18MAP17B
	On completion of the course, students would be able to
CO-1	Acquire knowledge of the software MATLAB
CO-2	Acquire knowledge of array addressing by using MATLAB built
CO-3	Acquire knowledge of script files
CO-4	Acquire knowledge of functions and function files
CO-5	Acquire knowledge to relations and logical operations of MATLAB

Course Title	Generic Elective Course – (Cluster – I) FUZZY LOGIC IDC – OPTIONAL –THEORY
Code	18STP17A/ 18PHP15A/ 18CMP22A
	On completion of the course, students would be able to
CO-1	Understand the fuzzy sets and its properties
CO-2	Understand fuzzy tolerance and different methods of value assignments
CO-3	Understand the properties of Membership functions
CO-4	Understand the applications of fuzzy arithmetic
CO-5	Understand the fuzzy logic and logical proofs



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Programme: MSc Statistics

Programme Outcomes

	On completion of the programme, the student will be able to
PO-1	Become knowledgeable in the subject of advanced Statistics
PO-2	Gain Analytical skills in the field /area of theoretical and application research 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	Show lifelong learning / Exhibit interest in lifelong learning

Programme Specific Outcomes

	On completion of the programme, the student will be able to
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 and 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

Course Title	Core REAL ANALYSIS AND MATRIX ALGEBRA
Code	18STP01
	On completion of the course, students would be able to
CO-1	Understand continuity, derivability of real valued functions
CO-2	Differentiate between Riemann Integral and Riemann – Stieltjes integral
CO-3	Grasp the concept of matrix theory

Course Title	Core PROBABILITY THEORY
Code	18STP02
	On completion of the course, students would be able to
CO-1	Grasp the fundamentals of Probability theory
CO-2	Have an idea of random variables, expectation and probability measure etc. under stochastic situation
CO-3	Understand the convergence in Probability, Weak Law of Large numbers and different theorems applicable in research

Course Title	Core SAMPLING THEORY
Code	18STP03
	On completion of the course, students would be able to
CO-1	Appreciate the uses of sampling
CO-2	Get an overview of Simple random Sampling, Stratified random sampling and other estimation techniques.
CO-3	Know the difference and efficiency of different sampling method
CO-4	Have knowledge about Ratio and Regression estimators

Course Title	Core OPERATIONS RESEARCH
Code	18STP04
	On completion of the course, students would be able to
CO-1	Develop the knowledge about the dual simplex problems and decision analysis and decision trees and its application
CO-2	Solvesensitive analysis and inventory control with decision making problems
CO-3	Find a solution of project activities using PERT and CPM
CO-4	Develop the knowledge about the dynamic problems to shortest route, goal programming and its application
CO-5	Simulate the real life Queuing and inventory problems

Course Title	Core SOFTWARE PRACTICAL I –SPSS
Code	18STP05
	On completion of the course, students would be able to
CO-1	Create data and manage the data in SPSS
CO-2	Identify the nature of the variable and recognize the tools to be used
CO-3	Perform the Statistical analysis using SPSS as per the requirement

Course Title	Core DISTRIBUTION THEORY
Code	18STP06
	On completion of the course, students would be able to
CO-1	Derive Non-central χ^2 , t and F distribution from normal distribution and derive the Sampling distributions of sample correlation coefficient and regression coefficient
CO-2	Derive the truncated probability distributions relevant to functions of random variable
CO-3	Perform Statistical tests of the mean(s) vectors of a multivariate normal distribution
CO-4	Use principal component, Factor analysis, Classification theorem and Canonical correlation for typical problems

Course Title	Core ESTIMATION THEORY
Code	18STP07
	On completion of the course, students would be able to
CO-1	Have the knowledge about the estimators and its properties
CO-2	Understand the theorems and its applications
CO-3	Estimate the parameters based on methods of estimation
CO-4	Apply the interval estimation and Bayesian estimation in real life problems

Course Title	Discipline Specific Elective – I PROGRAMMING LANGUAGE FOR STATISTICS (C++)
Code	18STP08A
	On completion of the course, students would be able to
CO-1	Solving the given problem using the syntactical structures of C++ Languages
CO-2	Designing and algorithmic the solution for a given problem in C++ Languages
CO-3	Implementing Various object oriented Concepts
CO-4	Using the Programming skill to debug and run the programmes efficiently
CO-5	Solve the statistics problems with the help of C++

Course Title	Discipline Specific Elective – I DATA MINING AND WAREHOUSING
Code	18STP08B
	On completion of the course, students would be able to
CO-1	Describe and demonstrate basic data mining algorithms methods, and tools
CO-2	Apply the techniques of clustering, classification, association finding, feature selection and visualization to real world data
CO-3	Process raw data to make it suitable for various data mining algorithms
CO-4	Analyze large sets of data to gain useful business understanding

Course Title	Core SURVIVAL ANALYSIS AND CLINICAL TRIALS USING STATA
Code	18STP09
	On completion of the course, students would be able to
CO-1	Learn about survival & hazard functions, Censoring and its types and Mean residual Life
CO-2	Estimate the survival & hazard functions for Exponential, Weibull, Normal and Gamma distributions
CO-3	Estimation of Survival function using Kaplan –Meier Estimator, Gehan’s test and Cox’s proportional hazard model
CO-4	Learn about how clinical trials are conducted, its types, phases and ethics of clinical trials
CO-5	Learn to apply Kaplan Meier estimator and Cox proportional hazard model to practical data using statistical software STATA

Course Title	Core SOFTWARE PRACTICAL II –SYSTAT
Code	18STP10
	On completion of the course, students would be able to
CO-1	Perform the Statistical analysis using SYSTAT

Course Title	Core STATISTICS PRACTICAL –I
Code	19STP11
	On completion of the course, students would be able to
CO-1	Find the critical path and project duration
CO-2	Find the Economic order quantity in various real life situation
CO-3	Compute Expected Money Value and Expected Opportunity Loss(EOL)
CO-4	Estimate the parameters using various types of sampling techniques
CO-5	Test the mean vector covariance matrix using multivariate techniques

Course Title	Core HYPOTHESES TESTING
Code	18STP12
	On completion of the course, students would be able to
CO-1	Define hypothesis, types and its testing methods with theoretical Knowledge
CO-2	Interpret the theories of unbiased test, similar tests and confidence Bounds
CO-3	Identify and Analyze the LRT test with properties and its application Problems
CO-4	Derive the measures of SPRT for various distributions
CO-5	Analyze & apply the relevant Non-parametric tests under various Circumstances

Course Title	Core STOCHASTIC PROCESSES
Code	18STP13
	On completion of the course, students would be able to
CO-1	Classify the nature of Markov chain in discrete & Continuous time with state diagrams recurrence, transient states periodicity and irreducibility
CO-2	Define the calculations with transition Probabilities
CO-3	Elaborate the concept of random walk and Kolmogorov equations
CO-4	Apply the concepts of Poisson process & Branching process
CO-5	Discuss the concept of Renewal process with theorems & Wide –sense Stationary probability with examples

Course Title	Core BIG DATA ANALYTICS AND R PROGRAMMING
Code	18STP14
	On completion of the course, students would be able to
CO-1	Learn tips and tricks for big data use cases and solutions
CO-2	Develop critical skills, that help build a background as a data analytics and a data scientist
CO-3	Build and maintain reliable, scalable, distributed systems with R Programming
CO-4	Learn programming in R Language and apply to solve the Statistical Problem
CO-5	Understand Data visualization and Hadoop platforms

Course Title	Discipline Specific Elective Course – II DEMOGRAPHIC TECHNIQUES
Code	18STP15A
	On completion of the course, students would be able to
CO-1	Identify different source of data for measuring mortality and Morbidity
CO-2	Explain some of the problems relating to the completeness and Quality of data
CO-3	Obtain fertility measures and models under different conditions; also identify causes of fertility changes and its implications
CO-4	Project the population growth and have knowledge in migration
CO-5	Apply the concepts of stochastic processes to real life situations On Birth and Death process

Course Title	Discipline Specific Elective Course – I BIO STATISTICS AND EPIDEMIOLOGY
Code	18STP15B
	On completion of the course, students would be able to
CO-1	Learn the foundations of Biostatistics its scope, Types of Distributions and its applications
CO-2	Understand the application of correlation, regression, logistic Regression and survival analysis for clinical data
CO-3	Know about testing of hypothesis applied in Biostatistics
CO-4	Understand the basics of epidemiology, measures of association And risk
CO-5	Have an idea about clinical epidemiology and measures of Diagnostic accuracies

Course Title	Core SOFTWARE PRACTICAL III – R Programming
Code	18STP16
	On completion of the course, students would be able to
CO-1	Ability to use different programming application for R in BIGDATA Analysis
CO-2	Use knowledge to analyze, interpret the data and synthesis the information to derive valid conclusions using research methods and problems
CO-3	Solve system of two or more equations, regression equations and correlation, logistic equations and analysis of variance problems of data analysis
CO-4	Understand the value of probability and Statistics in acquiring knowledge and making decisions
CO-5	Develop an ability to apply statistical tests in experiments, as well as to analyze and interpret data

Course Title	Generic Elective Course STATISTICAL TECHNIQUES (THEORY)
Code	18STP17A/18STP17B/ 18STP17C
	On completion of the course, students would be able to
CO-1	Gain knowledge of critical understanding of Statistical Methodologies
CO-2	Identify contexts in which a method may be appropriate
CO-3	Perform various Estimation as well as confidence interval for various measures
CO-4	Identify and perform the test of significance as per need of the situation

Course Title	Generic Elective Course STATISTICAL TECHNIQUES - SPSS (Practical)
Code	18STP18A/18STP18B /18STP18C
	On completion of the course, students would be able to
CO-1	Describe the basic principles of descriptive and inferential statistics
CO-2	Build, organize and administer databases using the SPSS software
CO-3	Define conceptual/operational null/alternate hypotheses based on research questions
CO-4	Construct and interpret point estimates and confidence intervals
CO-5	Differentiate parametric vs. non-parametric statistics identifying Conditions for their use

Course Title	Core LINEAR MODELS AND DESIGN OF EXPERIMENTS
Code	18STP19
	On completion of the course, students would be able to
CO-1	Analyze data by appropriately fitting, assessing, and interpreting a Variety of statistical models
CO-2	Explain the essential components of experimental design
CO-3	Design an experiment and conduct analysis of variance on experimental data, interpret the results and present them Meaningfully
CO-4	Understanding the concept of Bio assay, Factorial Experiments And BIBD

Course Title	Core STATISTICAL QUALITY CONTROL
Code	18STP20
	On completion of the course, students would be able to
CO-1	Apply the knowledge of quality and calculate the limits
CO-2	Demonstrate, design, use measures to interpret control charts for Attributes and variables as per the need of the industry
CO-3	Apply and describe performance measures of various sampling Plans with the knowledge learned for attributes and variables
CO-4	Estimate life length distributions, using complete or censored data

Course Title	Core ECONOMETRICS AND PLANNING MODELS
Code	18STP21
	On completion of the course, students would be able to
CO-1	Understand the technique, methodology and Application of Forecasting Models
CO-2	Gain Knowledge in the Regression Analysis
CO-3	Obtain Auto correlation and Multicollinearity
CO-4	Develop an empirical model of experimental data using Simulation Equation Models and Planning Models

Course Title	Core TIME SERIES AND FORECASTING
Code	18STP22
	On completion of the course, students would be able to
CO-1	Learn the basic concepts of Time series, stationarity, auto- Correlation, auto correlation functions
CO-2	Apply smoothing techniques, Holt's and Winter's methods
CO-3	Understand about linear and non-linear stationary models
CO-4	Have understanding about different forecasting methods, basic Steps in models building and model evaluation methods

Course Title	Core STATISTICS PRACTICAL –II
Code	18STP23
	On completion of the course, students would be able to
CO-1	Analyse to apply and interpret the results of most powerful Test, SPRT and non parametric test under various circumstances
CO-2	Apply and describe performance measures of various sampling plans with the knowledge learned for attributes and variables
CO-3	Design an experiment and conduct analysis of variance of the experimental data and interpret the results

Course Title	Generic Elective Course STATISTICAL TECHNIQUES (THEORY)
Code	18GECIDC
	On completion of the course, students would be able to
CO-1	Gain knowledge of critical understanding of Statistical Methodologies
CO-2	Identify contexts in which a method may be appropriate
CO-3	Perform various Estimation as well as confidence interval for various measures
CO-4	Identify and perform the test of significance as per need of the situation

Course Title	Generic Elective Course STATISTICAL TECHNIQUES – SPSS (PRACTICAL)
Code	18GECIDC
	On completion of the course, students would be able to
CO-1	Describe the basic principles of descriptive and inferential statistics
CO-2	Build, organize and administer databases using the SPSS software
CO-3	Define conceptual/operational null/alternate hypotheses based on research questions
CO-4	Construct and interpret point estimates and confidence intervals
CO-5	Differentiate parametric vs. non-parametric statistics identifying Conditions for their use



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Programme: MSc Physics

Programme Outcomes

	On completion of the programme, the student will be able to
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	Make the students to apply the knowledge and skills towards research areas in Physics
PO-5	Make them to compete with their counterparts in national and international levels
PO - 6	Make feel comfortable in the ambit of fellow researcher/employee

Programme Specific Outcomes

	On completion of the programme, the student will be able to
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	Inculcate scientific temper and motivate student to take up further research career
PSO-4	Form a part of member in a team with righteous attitudes

Course Outcomes

Course Title	Core NUCLEAR PHYSICS
Code	18PHP01
On completion of the course, students would be able to	
CO-1	Understanding the ground state properties of the nucleus to study the nuclear structure behavior
CO-2	Understand the structure of the nucleus, radioactive decay, nuclear reactions and the interaction of nuclear radiation with matter
CO-3	Apply the deuteron physics concepts for the better understanding of nuclear forces in Nucleon-Nucleon scattering
CO-4	Apply various aspects of nuclear reactions in view of compound nuclear dynamics
CO-5	Gain knowledge about the nuclear forces and elementary particles

Course Title	Core CONDENSED MATTER PHYSICS
Code	18PHP02
On completion of the course, students would be able to	
CO-1	Understand how different kinds of matter are described mathematically and how material properties can be predicted based on microscopic structure
CO-2	Study the free electron model and its shortcomings, band structure in explaining the physical properties of metals
CO-3	Identify the type of defect a crystal contains and can calculate the vacancy concentration in a crystal at a given temperature
CO-4	Understand the concept of specific heat capacity of solids and effect of the same on electrical and optical properties of different materials
CO-5	Understand the classification of materials based on the magnetic behavior and study the basic principles of modern nuclear magnetic resonance

Course Title	Core QUANTUM MECHANICS I
Code	18PHP03
	On completion of the course, students would be able to
CO-1	Impart the scientific ideas of various branches of Quantum Mechanics
CO-2	The ideas developed about the various methods with their principle
CO-3	Learned to solve Schrodinger equation to obtain eigenvectors and energies
CO-4	The approximation methods in Quantum Mechanics are studied
CO-5s	Upgraded understanding of concepts of spin angular matrices

Course Title	Core OPTICAL PHYSICS
Code	18PHP04
	On completion of the course, students would be able to
CO-1	The methods and problems involved in the mathematical foundations of Fourier optics
CO-2	The advanced level of ideas on physical phenomena like polarization and optical indicatrix by resolving crystal optics properties
CO-3	The implementations of ideas provided about classical and quantum mechanical aspects of non linear optics and recent ideas like wave mixing and beam coupling
CO-4	The handling of fundamental instrumentations especially optical microscopes special emphasis on nanoscale applications
CO-5	The physical aspects of optical interactions at nanoscale environment such as microscopy and periodic structures with better understanding

Course Title	Core CLASSICAL MECHANICS
Code	18PHP05
	On completion of the course, students would be able to
CO-1	Understanding of Lagrangian mechanics, and Hamiltonian mechanics on phase space, including constraints
CO-2	Understand the general motion of a particle in two dimensions and can determine the components, magnitude, and direction of the particle's velocity and acceleration as functions of time
CO-3	Understand the motion of projectiles in a uniform gravitational field and write down the expressions for horizontal and vertical components of velocity and position as functions of time
CO-4	Gain a theoretical understanding of the concept of canonical transformations and its applications
CO-5	Understand the principal applications of Lagrange's equations in the analysis of small motions of a conservative mechanical system about an equilibrium configuration

Course Title	Core MATHEMATICAL PHYSICS
Code	18PHP06
	On completion of the course, students would be able to
CO-1	Use complex analysis in solving in physics problems
CO-2	Use Fourier series and Laplace integral transformation
CO-3	Solve the partial differential equations in the physical sciences
CO-4	Use group theory in day to day life
CO-5	Use the basic knowledge in numerical analysis

Course Title	Core QUANTUM MECHANICS II
Code	18PHP07
	On completion of the course, students would be able to
CO-1	Impart the scientific ideas of various branches of Quantum Mechanics
CO-2	Introduce important formulation of quantum mechanics and make students familiar with various approximation methods
CO-3	With the basic and advanced methods of quantum mechanics in the situations where finding exact solutions are not practical
CO-4	Translate the physical description of a problem into equations that can be used to answer relevant questions
CO-5	Upgrade the understanding of concepts of Second Quantization

Course Title	Core Analog, Digital Electronics and Microprocessors
Code	18PHP08
	On completion of the course, students would be able to
CO-1	Understand the basics of semiconductor and its importance
CO-2	Analyze the operation of semiconductor, logical devices and its applications
CO-3	Understand the functioning of sequential circuits and interpret its practical applications
CO-4	Learn the operation of amplifiers and its importance in signal processing
CO-5	Understand the basics of microprocessors and its evolution

Course Title	Core PRACTICAL – I GENERAL PHYSICS
Code	18PHP10
	On completion of the course, students would be able to
CO-1	Learnt how to gain knowledge by looking at reality and not an attempt to make reality conform to preconceptions
CO-2	Learnt how to be observant, to really see what happens, and to deal with this information with the strictest integrity

Course Title	Core PRACTICAL – II ELECTRONICS
Code	18PHP11
	On completion of the course, students would be able to
CO-1	Understand the principle and fundamental operation of basic electronic instruments
CO-2	Analyze the circuit operation and can rectify the problems in execution
CO-3	Understand the analog to digital conversion techniques

Course Title	Core APPLIED PHYSICS
Code	18SSP04
	On completion of the course, students would be able to
CO-1	The encryption of scientific ideas of various lasers and fiber optic system in the minds
CO-2	The enumeration of the various properties of electrical aspects of materials and electric polarization
CO-3	The classification of physical nature crystals and its related phenomena
CO-4	The resolving the dielectric and ferromagnetic properties of materials experimental demonstrations
CO-5	The upgraded understanding of concepts of nanoscience and nanotechnology

Course Title	Core PHOTONICS AND APPLICATIONS
Code	18PHP12
	On completion of the course, students would be able to
CO-1	Compare different types of radiation region in electromagnetic spectra and their interaction with matters and able to distinguish ordinary and laser lights
CO-2	Understand the significance of pumping process and condition for framing resonators
CO-3	Differentiate and Describe the large variety of lasers
CO-4	Discuss about the fundamental theories of LASERs involved in different industries along with their applications
CO-5	Elaborate the basics and essential of luminescence based systems

Course Title	Core ELECTROMAGNETIC THEORY
Code	18PHP13
	On completion of the course, students would be able to
CO-1	Understand the field equations and mathematical foundations of electromagnetic fields and dielectric materials
CO-2	Lay the foundations of polar dielectrics and dynamic electricity and its governing physical laws
CO-3	Give the foundations of electromagnetic propagation in different media
CO-4	Elaborate the basics and essential of waveguides and types of potentials

Course Title	Discipline Specific Elective – I DIGITAL COMMUNICATIONS
Code	18PHP14A
	On completion of the course, students would be able to
CO-1	Understand properly the available communication systems
CO-2	Understand the need of modulation process in various transmission systems
CO-3	Understand the basics of digital communication systems like modulation, transmission and multiplexing techniques
CO-4	Understand the concepts of cellular telephone communication systems
CO-5	Understand different network systems and design simple network system used in cellular telephones

Course Title	Discipline Specific Elective – I MOLECULAR SPECTROSCOPY
Code	18PHP14B
	On completion of the course, students would be able to
CO-1	Compare different types of spectroscopic methods to analyze the physical systems
CO-2	Understand the significance of IR, Raman, resonance spectroscopy and microwave spectroscopy
CO-3	Differentiate and Describe the large variety of instrumentation and technical details spectrophotometric methods
CO-4	Discuss about the fundamental theories of molecular mechanics and Mossbauer spectroscopy for chemical applications
CO-5	Elaborate the applications of spectroscopy for various real time applications

Course Title	Core APPLIED THERMODYNAMICS AND STATISTICAL MECHANICS
Code	18PHP17
	On completion of the course, students would be able to
CO-1	Understand the laws governing thermodynamics and its applications
CO-2	Learn the concept of ensembles that forms the basis of statistics
CO-3	Gain knowledge about distribution laws
CO-4	Know the importance of various distribution laws and their applications
CO-5	Learn about the applications of quantum statistics to various systems

Course Title	Core PROBLEMS IN CORE PHYSICS
Code	18PHP18
	On completion of the course, students would be able to
CO-1	Compare the applications of vector calculus in physical problems like classical dynamics
CO-2	Solve the problems in relation to matrix and its applications
CO-3	Have exposure in solving the problems frequently asked in competitive examination
CO-4	Discuss about the foundations of thermodynamics and experience in solving problems
CO-5	Solving atomic and molecular spectra and their theory and to provide solved and unsolved problems

Course Title	Core CRYSTAL GROWTH, THIN FILMS AND PLASMA PHYSICS
Code	18PHP19
	On completion of the course, students would be able to
CO-1	Get an idea about crystals – naturally occurring crystals man-made crystals
CO-2	Learn the various characterization techniques
CO-3	Understand the various thin films preparation methods and thickness measurement Techniques
CO-4	Fabrication of the various thin film structures and devices
CO-5	Attain the philosophical state of matter and its applications

Course Title	Discipline Specific Elective – II APPLIED SOLAR ENERGY
Code	18PHP20A
	On completion of the course, students would be able to
CO-1	Aware about the abundance of solar energy and their under utilization along with their measuring instruments
CO-2	Know the scientific background about various configurations of flat plate collectors and the uses
CO-3	Understand about science of solar concentrators and solar stills
CO-4	Elaborate knowledge on solar driers and their fabrication along with solar photo voltaic system

Course Title	Discipline Specific Elective – II NANOSCIENCE AND NANOTECHNOLOGY
Code	18PHP20B
	On completion of the course, students would be able to
CO-1	Discuss on the scientific background on nanomaterials
CO-2	Know on various synthesis and preparation methods of nanomaterials
CO-3	Explain the variety of instrumentations used for characterizing nanosystems
CO-4	Understand the properties of nanomaterials in depth
CO-5	Elaborate knowledge about the wide variety of applications of nanosystems in real time applications

Course Title	Core PRACTICAL III ADVANCED PHYSICS
Code	18PHP21
	On completion of the course, students would be able to
CO-1	Acquire basic knowledge of advanced physics
CO-2	Understand the relationship between theory and experimental results
CO-3	Understand the advanced physics behind many scientific discoveries through hands on experience
CO-4	Acquire enough general skills to handle variety of formulae appears in various physical situation with an ease

Course Title	Core PRACTICAL IV ADVANCED PHYSICS
Code	18PHP22
	On completion of the course, students would be able to
CO-1	Acquire basic knowledge of advanced physics
CO-2	Understand the relationship between theory and experimental results
CO-3	Understand the advanced physics behind many scientific discoveries through hands on experience
CO-4	Acquire enough general skills to handle variety of formulas appears in various physical situation with an ease

Course Title	Generic Elective Course PHYSICS FOR MATHEMATICAL SCIENCES (THEORY)
Code	18GECIDC
	On completion of the course, students would be able to
CO-1	Understand the basic topics of Newton's laws of motion
CO-2	Have an advanced level of ideas on dynamics of motion and its relative parameters
CO-3	Have ideas on molecular speeds of gas and properties of matter
CO-4	Have knowledge in fundamental concepts of heat and thermodynamics
CO-5	Interpret-Bohr model of an atom

Course Title	Generic Elective Course PHYSICS FOR MATHEMATICAL SCIENCES (PRACTICAL)
Code	18GECIDC
	On completion of the course, students would be able to
CO-1	Acquire basic knowledge of advanced physics through using MathCAD programs
CO-2	Understand the relationship between theory and experimental results through computer based experiments
CO-3	Understand the advanced physics behind many scientific discoveries through programming skills
CO-4	Acquire enough knowledge to handle variety of formulae through computer simulations



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Programme: MSc Chemistry

Programme Outcomes

	On completion of the programme, the student will be able to
PO-1	Gaining in-depth knowledge in the fundamentals of Chemistry and apply the Concepts to the needs of the Employer / Institution / own Business or Enterprise
PO-2	Developing Practical/Analytical skills in the field of Chemistry
PO-3	Applying and transferring the knowledge to younger generation
PO-4	Developing the working skills in a global level advanced research atmosphere to pursue PhD
PO-5	Identifying, Analyzing and solving chemical/environmental problems and exploring recent trends in research
PO-6	Targeted approach towards qualifying the CSIR-NET and GATE examinations
PO-7	Understanding and appreciating professional ethics, community living and Nation Building initiatives
PO-8	Designing a system to meet desired needs and become a chemical analyst 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	Understand the fundamentals of the various organic/inorganic reactions, molecular rearrangements purification / separation techniques
PSO-3	Know the significance of spectral techniques, nuclear chemistry, thermodynamics, electrochemistry, quantum mechanics and group theory
PSO-4	Gain complete knowledge in the structure analysis of organic and inorganic compounds employing latest instrumental techniques.

Course Outcomes

Course Title	Core ORGANIC CHEMISTRY –I
Code	18CHP01
	On completion of the course, students would be able to
CO-1	Give mechanistic pathway of the reaction
CO-2	Recognize the conformation of the molecules
CO-3	Recall the type and mechanism of nucleophilic substitution reactions
CO-4	Predict the structure and synthesis of natural product & heterocyclic compounds

Course Title	Core INORGANIC CHEMISTRY I
Code	18CHP02
	On completion of the course, students would be able to
CO-1	Calculate CFSE and apply in JT distortion
CO-2	Identify term states, interpret electronic spectra and differentiate magnetic behavior
CO-3	Derive the reaction mechanisms of complexes
CO-4	Elucidate the structure of complexes of all coordination numbers and recall the acid base concepts

Course Title	Core PHYSICAL CHEMISTRY – I
Code	18CHP03
	On completion of the course, students would be able to
CO-1	Classify various components in chemical thermodynamics
CO-2	Apply the concept of thermodynamics in chemical equilibrium
CO-3	Solve problems in electrochemistry
CO-4	Apply the concept of phase equilibrium

Course Title	Core ORGANIC CHEMISTRY –II
Code	18CHP05
	On completion of the course, students would be able to
CO-1	Give mechanism of any electrophilic substitution reaction
CO-2	Predict the type of elimination reactions
CO-3	Recall the mechanism of addition reactions
CO-4	Predict the various synthetic routes to the targeted molecules
CO-5	Choose the suitable reagents in FG transformation

Course Title	Core INORGANIC CHEMISTRY-II
Code	18CHP06
	On completion of the course, students would be able to
CO-1	Classify the metal carbon bonds and assess their stability
CO-2	Recall the catalytic cycle involved in homogeneous catalysis
CO-3	Identify the energy states of metal complexes involved in photochemical reactions
CO-4	Recognize the isolobal fragments in polycarbonyls and carboranes
CO-5	Recall the fundamentals of bio-inorganic and supramolecular chemistry

Course Title	Core PHYSICAL CHEMISTRY – II
Code	18CHP07
	On completion of the course, students would be able to
CO-1	Analyze the behavior of micro particles
CO-2	Understand the Different class of objects in the Universe
CO-3	Apply quantum mechanical aspects to various systems
CO-4	Apply group theory to analyze the symmetry and vibrational modes of compounds

Course Title	Discipline Specific Elective – I NANO AND GREEN CHEMISTRY
Code	18CHP08A
	On completion of the course, students would be able to
CO-1	Synthesize and characterize nano particles
CO-2	Know the significance of advanced nano materials
CO-3	Understand the basic concepts of Green Chemistry
CO-4	Develop the knowledge in advanced green method of synthesis

Course Title	Discipline Specific Elective – I POLYMER CHEMISTRY
Code	18CHP08B
	On completion of the course, students would be able to
CO-1	Understand the chemistry of organic and inorganic polymers
CO-2	Know the mechanism of polymerization
CO-3	Choose an appropriate analytical method to characterize a polymer
CO-4	Select an appropriate moulding technique to process a particular polymer
CO-5	Realize the importance of advanced polymers

Course Title	Core ORGANIC CHEMISTRY PRACTICAL I
Code	18CHP09
	On completion of the course, students would be able to
CO-1	Prepare organic reagents
CO-2	Separate and analyze the organic compounds
CO-3	Synthesize organic compounds

Course Title	Core INORGANIC CHEMISTRY PRACTICAL I
Code	18CHP10
	On completion of the course, students would be able to
CO-1	Analyze the metals in unknown sample
CO-2	Prepare metal complexes
CO-3	Estimate the amount of metals by colorimetric method

Course Title	Core ORGANIC CHEMISTRY PRACTICAL II
Code	18CHP11
	On completion of the course, students would be able to
CO-1	Prepare two state organic compounds
CO-2	Extract the organic compounds
CO-3	Estimate the organic compounds

Course Title	Core INORGANIC CHEMISTRY PRACTICAL II
Code	18CHP12
	On completion of the course, students would be able to
CO-1	Estimate metal ions by Complexometric, cerimetric and iodometric methods
CO-2	Quantitative estimation of metals by gravimetric method
CO-3	Gain in-depth knowledge in electrochemistry
CO-4	Analysis metals ions in inorganic mixtures

Course Title	Core ORGANIC CHEMISTRY III
Code	18CHP13
	On completion of the course, students would be able to
CO-1	Identify aromatic and non aromatic compounds
CO-2	Predict the feasibility of organic reactions
CO-3	Understand organic reaction mechanisms
CO-4	Apply Woodward-Hoffmann rules for pericyclic reactions
CO-5	Elucidate the structure of natural products

Course Title	Core INORGANIC CHEMISTRY III
Code	18CHP14
	On completion of the course, students would be able to
CO-1	Analyze inorganic solids using diffraction methods
CO-2	Acquire knowledge in solid state and defects in solids
CO-3	Recall the knowledge in nuclear chemistry

Course Title	Core PHYSICAL CHEMISTRY – III
Code	18CHP15
	On completion of the course, students would be able to
CO-1	Acquire knowledge to apply the kinetic theories for various chemical reactions
CO-2	Learn more about surface reactions and their kinetics
CO-3	Gain in-depth knowledge in statistical thermodynamics

Course Title	Core MOLECULAR SPECTROSCOPY AND ITS APPLICATIONS
Code	18CHP16
	On completion of the course, students would be able to
CO-1	Characterize chemical compounds using spectroscopic methods
CO-2	Predict the structure of organic and inorganic compounds from spectral data

Course Title	Core PHYSICAL CHEMISTRY PRACTICAL –I
Code	18CHP17
	On completion of the course, students would be able to
CO-1	Determine the kinetic parameters of chemical reactions
CO-2	Find out the molecular weight of unknown substances
CO-3	Do qualitative and quantitative electrochemical experiments

Course Title	Core PHYSICAL CHEMISTRY PRACTICAL –II
Code	18CHP18
	On completion of the course, students would be able to
CO-1	Apply emf measurements for qualitative and quantitative studies
CO-2	Find various physical constants
CO-3	Derive adsorption parameters

Course Title	Core ANALYTICAL CHEMISTRY
Code	18CHP21
	On completion of the course, students would be able to
CO-1	Recall the knowledge in chromatography
CO-2	Know the importance of atomic adsorption spectroscopy
CO-3	Apply the electro analytical and thermal methods for studying the compounds
CO-4	Recall the methods for sustainable development

Course Title	Discipline Specific Elective – II ENVIRONMENTAL CHEMISTRY
Code	18CHP22A
	On completion of the course, students would be able to
CO-1	Understand the importance of environment and its components
CO-2	Know the effect of pollutants on ecosystem
CO-3	Recall the methods for sustainable development

Course Title	Discipline Specific Elective – II INDUSTRIAL CHEMISTRY
Code	18CHP22B
	On completion of the course, students would be able to
CO-1	Analyze the quality and treatment of water
CO-2	Know the petroleum products, lubricants, perfumes and dielectrics
CO-3	Recall the corrosion and batteries

Course Title	IDC GROUP THEORY AND MOLECULAR SPECTROSCOPY
Code	18PHP09
	On completion of the course, students would be able to
CO-1	Understand group theory and its applications
CO-2	Know the various spectroscopic techniques for characterization

Course Title	Generic Elective Course – Cluster – II PHARMACEUTICAL CHEMISTRY – THEORY
Code	18NDP15A/18BCP15A/18MBP19A/18ESP17A
	On completion of the course, students would be able to
CO-1	Recall the types of drugs in pharmaceutical chemistry
CO-2	Know the mechanism of action of the drugs in the body
CO-3	Relate the chemistry of drugs for specific diseases

Course Title	Generic Elective Course – Cluster – II PHARMACEUTICAL CHEMISTRY–PRACTICAL
Code	18NDP16A/18BCP16A/18MBP20A/18ESP18A
	On completion of the course, students would be able to
CO-1	Extract organic compounds from plants
CO-2	Understand the methods for preparation of drugs
CO-3	Acquire the knowledge of quantitative analysis
CO-4	Analyze the conductivity and solubility product of substances



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Programme: MSc Biochemistry

Programme Outcomes

	On completion of the programme, the student will be able to
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	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	Understand and interpret various nuances of bioinformatics tools

Programme Specific Outcomes

	On completion of the programme, the student will be able to
PSO-1	Apply the knowledge of Biochemistry in the domain of Medicines
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

Course Outcomes

Course Title	Core CHEMISTRY OF BIOPOLYMERS
Code	18BCP01
	On completion of the course, students would be able to
CO-1	Relate the existence and interaction between various naturally occurring biopolymers
CO-2	Assess the role of biopolymers in the biological system
CO-3	Rule out the possibility to fortify the biopolymers according to the need for pharmaceutical and food industries

Course Title	Core ANALYTICAL BIOCHEMISTRY
Code	18BCP02
	On completion of the course, students would be able to
CO-1	Understand the various methods in purification of molecules
CO-2	Comprehensive knowledge on identifying primary and secondary structure of proteins
CO-3	Gain knowledge on the diagnosis of diseases using PCR and hybridization techniques

Course Title	Core ENZYME AND ENZYME TECHNOLOGY
Code	18BCP03
	On completion of the course, students would be able to
CO-1	Comprehend the nature of the enzymes function and their kinetic behavior
CO-2	Appreciate the importance of coenzymes in assisting the enzyme functions
CO-3	Understand the regulatory functions of enzymes in metabolic pathways
CO-4	Learn about the biotechnological applications of enzymes

Course Title	Core CELLULAR BIOCHEMISTRY
Code	18BCP04
	On completion of the course, students would be able to
CO-1	Understand the various nuances of membrane biochemistry, basis of membrane transport, mitochondrial electron transport, cell signaling, cell cycle and cancer
CO-2	Enhance their basic knowledge that would have enable them to think and work independently in any research problems in labs or in hospitals
CO-3	Solve confidently any research problems or questions

Course Title	Core METABOLIC REGULATION
Code	18BCP05
	On completion of the course, students would be able to
CO-1	Unravel the complex biochemical pathways along with the underlying mechanismsfor its regulation
CO-2	Correlate the metabolic pathways with its clinical significance
CO-3	Utilize the concepts underlying the metabolic pathways for maintenance

Course Title	Core MICROBIAL BIOCHEMISTRY
Code	18BCP06
	On completion of the course, students would be able to
CO-1	Ascertain the various metabolic pathways for glucose utilization
CO-2	Learn the industrial fermentation process for production of metabolites
CO-3	Distinguish between the photosynthesis in microbes and plants

Course Title	Core ADVANCED PLANT BIOCHEMISTRY
Code	18BCP07
	On completion of the course, students would be able to
CO-1	Comprehend the organization, and apply specific biochemical functions to all compartments of the plant cell
CO-2	Perceive how light energy is captured and used to provide chemical forms of energy to power the functions of cells and whole plants. The importance of CO ₂ fixation and carbohydrate metabolism will be presented
CO-3	Uncertain central metabolism, its plant-specific components, and their functional significance at multiple levels

Course Title	Core MOLECULAR GENETICS
Code	18BCP08
	On completion of the course, students would be able to
CO-1	Learn DNA structure and properties in prokaryotes and eukaryotes
CO-2	Know regulation of gene expression and Protein-DNA interaction
CO-3	Learn the modern concepts and the scope of cell signaling, virology and action of an anti-HIV drug
CO-4	Apply the above learnt molecular biological knowledge while taking up research

Course Title	Core BIOCHEMISTRY PRACTICAL I AND VIVA
Code	18BCP09
	On completion of the course, students would be able to
CO-1	Learn the techniques of quantitative estimation of various biomolecules and vitamins
CO-2	Assay and kinetic analysis of various enzymes of biochemical importance
CO-3	Learn the skills of basic microbiological methods

Course Title	Core ADVANCED CLINICAL BIOCHEMISTRY
Code	18BCP10
	On completion of the course, students would be able to
CO-1	Learn about the diagnostic principles of diseases of common interest
CO-2	Learn about the advanced techniques employed in diagnosis and treatment
CO-3	Study the disorders of various categories of biomolecular
CO-4	Comprehend the defects in different inborn errors of metabolism

Course Title	Core BIOSTATISTICS
Code	18BCP11
	On completion of the course, students would be able to
CO-1	Prepare a project proposal and writing a research report and thesis
CO-2	Efficiently determine the use and interpreting the results of descriptive statistical methods effectively
CO-3	Understand the central concept of Modern Statistical Theory and their Probabilistic foundation
CO-4	Communicate the results of statistical analyses accurately and effectively
CO-5	Obtain the practical knowledge in electronic data handling software systems

Course Title	Core MOLECULAR BIOTECHNOLOGY
Code	18BCP12
	On completion of the course, students would be able to
CO-1	Gain knowledge about how to use microbes and mammalian cells for the production of pharmaceutical products
CO-2	Interpret current applications of biotechnology and advances in the different areas like medical, microbial, environmental, bioremediation, agricultural, plant, animal, and forensic
CO-3	Perceive the general principles of generating transgenic animals

Course Title	Core BIOCHEMISTRY PRACTICAL II AND VIVA
Code	18BCP13
	On completion of the course, students would be able to
CO-1	Infer the significance of various biomolecules in assessing health status
CO-2	Perceive skills in carrying out immunological techniques
CO-3	Formulate basic molecular biological protocols

Course Title	Core BIOCHEMISTRY PRACTICAL III (BIOINFORMATICS)
Code	18BCP14
	On completion of the course, students would be able to
CO-1	Work on any sequence retrieval
CO-2	Select and operate any suitable analytical tool
CO-3	Construct his own multiple sequence analysis
CO-4	Find out genes and ORFS
CO-5	Visualise protein DNA structures

Course Title	Discipline Specific Elective – I BIOINFORMATICS
Code	18BCP15A
	On completion of the course, students would be able to
CO-1	Understand various algorithms and various online / offline software in biological sciences and their applications
CO-2	Appreciate various fundamental biochemical concepts in computational biology
CO-3	Verify the basics of biochemistry learn in terms of algorithms
CO-4	Extend the skill further and work independently on the new problems of both research and project potentials

Course Title	Discipline Specific Elective – I ENDOCRINOLOGY
Code	18BCP15B
	On completion of the course, students would be able to
CO-1	Demonstrate the mechanism of hormone action
CO-2	Describe the functions of hormones secreted by gland
CO-3	Analyze and interpret the disorders of hormonal imbalance
CO-4	Evaluate disorders male and female reproductive system

Course Title	Discipline Specific Elective - Is IMMUNOLOGY
Code	18BCP18
	On completion of the course, students would be able to
CO-1	Understand the role played by innate immunity and acquired immunity in defence
CO-2	Comprehend the detailed mechanisms of humoral and cell mediated types of immunity
CO-3	Understand the technological aspects of monoclonal antibody production and vaccination strategies

Course Title	Discipline Specific Elective – I BIOCHEMISTRY OF DRUGS
Code	18BCP19A
	On completion of the course, students would be able to
CO-1	Enhance their knowledge of pharmacology
CO-2	Understand the fundamental concepts of drug action and drug toxicity in the human body
CO-3	Enable to know about the development of the lead compound from various sources and their involvement in drug discovery
CO-4	Elaborate the mode of action of existing chemotherapeutic drugs such as anticancer and antiviral agents
CO-5	Interpret the bio chemical mechanisms involved in adverse reactions to drugs and its abuse

Course Title	Discipline Specific Elective - II NANOBIOTECHNOLOGY
Code	18BCP19B
	On completion of the course, students would be able to
CO-1	Perceive the general principles of Nanotechnology
CO-2	Gain an insight into the field of nanotechnology and its applications into biotechnology
CO-3	Apply the concepts of nanotechnology in the health care field for the novel approach in curing diseases

Course Title	General Elective Course – Cluster II DIAGNOSTICS AND PLANT THERAPEUTICS – Theory
Code	18MBP19C/ 18CHP19B/ 18NDP15B/ 18MBP19C/ 18ESP18C
	On completion of the course, students would be able to
CO-1	Aid in the diagnosis, screening, prognosis and monitoring of diseases by the analysis of biological fluids
CO-2	Explore the theoretical knowledge of clinical diseases
CO-3	Study of drugs or active principle or phytochemicals of natural origin (Medicinal Plants)
CO-4	Evaluate the various medicinal values of plants and their mode of action
CO-5	Illustrate the herbal formulation process and their quality standardization procedures

Course Title	General Elective Course – Cluster II DIAGNOSTICS AND PLANT THERAPEUTICS – Practical
Code	18MBP19C/ 18CHP19B/ 18NDP15B/ 18MBP19C/ 18ESP18C
	On completion of the course, students would be able to
CO-1	Quantify the some important biochemical in the given sample
CO-2	Correlate the changes in enzymes level with organ disease
CO-3	Prepare the polyherbal formulations for diseases



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PSG College of Arts & Science Coimbatore – 641 014

Programme: MSc Foods and Nutrition

Programme Outcomes

	On completion of the programme, the student will be able to
PO-1	Gain analytical skills and scientific temper in the field of Nutrition Research
PO-2	Utilize creativity and lateral thinking to apply nutritional concepts for generating innovative solutions in their fields
PO-3	Use relevant technologies for disseminating nutritional information to the society
PO-4	Critically evaluate information on health and nutrition issues projected by mass media
PO-5	Design effective solutions for complex problems targeting specified health needs of the public
PO-6	Rationally evaluate and interpret the existing and emerging threats related to food safety in the country and evolve practical solutions
PO-7	Promote independent and collaborative work, while demonstrating professional and ethical responsibilities
PO-8	Promote knowledge sharing by publishing scientific articles in high impact factor journals, and conference proceedings

Programme Specific Outcomes	
On completion of the programme, the student will be able to	
PSO-1	Apply the principles and various facets of Food Science, including Quality Assurance and Sensory evaluation, in practical situations, problem solving and product development
PSO-2	Explain the structure and components of food systems and analyze the relationships between nutritional health and food selection. Develop effective strategies to engage populations in promotion of nutritional well being
PSO-3	Ability to identify and resolve nutritional challenges by designing a research proposal with suitable methodology and analytical tools
PSO-4	Design need based solutions for lifestyle disorders by integrating nutrition science and ancient wisdom
PSO-5	Succeed in meeting the current challenging issues of the evolving health care system as innovative professionals and entrepreneurs

Course Outcomes

Course Title	Core ADVANCED FOOD SCIENCE
Code	18NDP01
On completion of the course, students would be able to	
CO-1	Conduct appropriate sensory tests to evaluate quality attributes of foods or consumer preferences
CO-2	Recognize the effect of various factors influencing food characteristics
CO-3	Interpret the chemical changes of food components during preparation and storage
CO-4	Articulate the principles of food science appropriately in the context of recipe formulations
CO-5	Comprehend the current trends in the food science and relate its applications to the present scenario

Course Title	Core ADVANCED NUTRITION – I
Code	18NDP02
	On completion of the course, students would be able to
CO-1	Explain the impact of nutrients on health and wellbeing
CO-2	Distinguish the beneficial and ill effects of nutrients during deficiency and toxicity
CO-3	Rationally analyze the changes in nutrient metabolism in deprived and over nourished conditions
CO-4	Associate the role of dietary fibre in health and disease prevention

Course Title	Core NUTRITION IN HEALTH
Code	18NDP03
	On completion of the course, students would be able to
CO-1	Discuss the dietary needs of different age groups
CO-2	Design a menu for diverse age groups based on the dietary requirements
CO-3	Objectively evaluate the modern nutrition approaches with scientific evidences
CO-4	Suggest and develop the nutritional plans for sports and expeditions
CO-5	Comprehend the role of nutrients for healthy lifestyle

Course Title	Core TECHNIQUES IN FOOD PROCESSING
Code	18NDP04
	On completion of the course, students would be able to
CO-1	Apply the knowledge for understanding and comprehending emerging concepts of food processing
CO-2	Get acquainted with modern technologies that promote critical thinking and analysis paving way for development of innovative food products
CO-3	Discuss and justify rationale for application of specific processing operations for selective food products
CO-4	Demonstrate the ability to identify the possibilities and constraints of introducing new technology for processing
CO-5	Analyze the scientific validity of issues regarding production, quality preservation and storage

Course Title	Core ADVANCED NUTRITION – II
Code	18NDP05
	On completion of the course, students would be able to
CO-1	Apply knowledge of the nutrients and nutrition principles to an understanding of contemporary nutrition issues
CO-2	Design a solution for nutrition deficiency and toxicity
CO-3	Comprehend nutrient-nutrient interaction
CO-4	Interpret the role of functional foods on human health

Course Title	Core PHYSIOLOGICAL ASPECTS OF NUTRITION
Code	18NDP06
	On completion of the course, students would be able to
CO-1	Explain the action of digestive enzymes on foods
CO-2	Understand the pathway of sense organs
CO-3	Comprehend the action of hormones in the body
CO-4	Deliberate the knowledge on immune response of the body in different conditions
CO-5	Recognize the food and drug interaction and action of common drugs on nutrient demand

Course Title	Core NUTRITION RESEARCH METHODS
Code	18NDP07
	On completion of the course, students would be able to
CO-1	Apply the ethical issues for conducting nutrition based research
CO-2	Design the protocol required for nutritional assessment
CO-3	Evaluate the protein quality and bioavailability of nutrients
CO-4	Practice the methodology of food sample collection, storage and analysis of nutrients

Course Title	Core FOOD QUALITY AND SAFETY MANAGEMENT
Code	18NDP08
	On completion of the course, students would be able to
CO-1	Express the national and international legislations relevant to food industry
CO-2	Develop a food safety plan as per the norms laid down by regulatory agencies
CO-3	Conduct food quality and safety audits for food establishments
CO-4	Identify the areas of concern in food processing and establish a HACCP Plan

Course Title	Discipline Specific Elective– I BASICS OF BIOTECHNOLOGY
Code	18NDP09A
	On completion of the course, students would be able to
CO-1	Demonstrate the steps followed in recombinant DNA Technology
CO-2	Produce enzymes and organic acids
CO-3	Comprehend on pros and cons of genetically modified foods
CO-4	Understand the evolving trends in food Nano technology
CO-5	Use the tissue culture techniques and propagate plants

Course Title	Discipline Specific Elective– I FOOD MICROBIOLOGY
Code	18NDP09B
	On completion of the course, students would be able to
CO-1	Apply the skills for eliminating the microbes in foods
CO-2	Recognize the action of microbes in production of fermented food products
CO-3	Examine the microbial quality of water
CO-4	Interpret the health issues related to food borne disease

Course Title	Core FOOD ANALYSIS PRACTICALS
Code	18NDP10
	On completion of the course, students would be able to
CO-1	Gain expertise in the methods of sample collections, preparation and ideal storage conditions
CO-2	Acquire skills and competency to analyze the food components as per procedures of internationally recognized science associations
CO-3	Modify suitably the procedures based on the nature and property of the food samples
CO-4	Interpret, discuss and justify the analytical results and prepare reports on nutrient composition based on scientific reasoning
CO-5	Analyze published research reports on nutrient composition and interpret

Course Title	Core RESEARCH METHODOLOGY AND STATISTICS
Code	18NDP11
	On completion of the course, students would be able to
CO-1	Understand basic probability, the use of probability distributions, sampling and the fundamentals of hypothesis testing
CO-2	Critically review the major methodological and design issues related to implementation of research aspects
CO-3	Describe the conceptual and practical features of several major techniques for analyzing data obtained from the research

Course Title	Core NUTRITION THERAPY
Code	18NDP12
	On completion of the course, students would be able to
CO-1	Demonstrate counseling and education methods to facilitate changes in food behavior and enhance wellness for diverse individuals and groups
CO-2	Understand the role of Registered Dietitians in the delivery of food and nutrition services
CO-3	Use Nutrition Care Process to make decisions, identify nutrition related problems and determine & evaluate nutrition interventions
CO-4	Apply knowledge of the role of nutrition and healthy eating for disease prevention and cure
CO-5	Design and critique evidence based nutrition interventions for the prevention and control of chronic diseases

Course Title	Core NUTRITIONAL BIOCHEMISTRY
Code	18NDP13
	On completion of the course, students would be able to
CO-1	Understand biochemical changes which will help in modifying the diet according to the disease condition and nutritional status
CO-2	Play the role of clinical nutritionist in specialized medical units

Course Title	Core COMPUTER APPLICATIONS IN NUTRITION
Code	18NDP14
	On completion of the course, students would be able to
CO-1	Use MS office in respective fields
CO-2	Apply statistical packages for analysis of research data
CO-3	Do basic programming and develop applications

Course Title	Generic Elective Course FOOD CHEMISTRY AND QUALITY CONTROL
Code	18NDP15E
	On completion of the course, students would be able to
CO-1	Knowledgeable about the various components of Foods and their importance in food quality
CO-2	Application of sensory evaluation in developing new food products.
CO-3	Ability to detect adulteration in commonly used foods through simple techniques and become a food safety aware consumer.

Course Title	Discipline Specific Elective – II NUTRITION PLANS AND POLICIES
Code	18NDP17A
	On completion of the course, students would be able to
CO-1	Develop nutrition programs / nutrition educational strategy for a target population (community extension activities)
CO-2	Explain how public policies are formed and implemented
CO-3	Develop effective strategies to engage populations in promotion of nutritional wellbeing
CO-4	Demonstrate effective program planning and evaluation
CO-5	Associate with national and international organizations and
CO-6	Involve in community research

Course Title	Discipline Specific Elective – II NUTRITION IN EMERGENCY
Code	18NDP17B
	On completion of the course, students would be able to
CO-1	Common natural and manmade disasters
CO-2	Role of nutritionists in emergency situations
CO-3	Assessment techniques of food and nutritional requirements in affected population
CO-4	Importance of symbiosis of political leaders, administrators and health care providers

Course Title	Core NUTRITION AND ENVIRONMENTAL HEALTH
Code	18NDP18
	On completion of the course, students would be able to
CO-1	Comprehend the interaction between nutrients, toxins and their effects
CO-2	Cognize the methods of detoxification in day today food preparation
CO-3	Understand the effects of food toxins and drugs on the human system

Course Title	Core BIOCHEMICAL ANALYSIS PRACTICALS
Code	18NDP19
	On completion of the course, students would be able to
CO-1	The students will be efficient in analyzing the blood, serum and urine samples for the selected parameters
CO-2	Students will be able to conduct the balance studies to assess the health status of an individual
CO-3	Estimate the various biochemical parameters in specified body fluids
CO-4	Understand the basics of conducting in vivo experiments and
CO-5	Obtain skills in metabolic studies and isolation techniques

Course Title	Generic Elective Course FOOD CHEMISTRY AND QUALITY CONTROL
Code	18GECIDC
	On completion of the course, students would be able to
CO-1	Knowledgeable about the various components of Foods and their importance in food quality
CO-2	Application of sensory evaluation in developing new food products
CO-3	Ability to detect adulteration in commonly used foods through simple techniques and become a food safety aware consumer



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Programme: MSc Computer Science

Programme Outcomes

	On completion of the programme, the student will be able to
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 of Information Technology
PO-3	Understand and appreciate professional ethics, community living and Nation Building initiatives
PO-4	Learning the methodologies for doing research
PO-5	Fit for the Information and Communication industry needs
PO - 6	Ability to gain for self learning and doing analytics, acquiring in-depth knowledge in respective domains
PO -7	Promoting to become an entrepreneur

Programme Specific Outcomes

	On completion of the programme, the student will be able to
PSO-1	Apply the knowledge of using Software tools in the domain of Medical, Social and Industry
PSO-2	Solve the complex problems using Computer Science with an understanding of the societal, legal and cultural impacts of the solution
PSO-3	The computer lab programming exercise problems are based on theory courses taught in respective semesters which are of real time applications oriented
PSO-4	Form a part of member in a team with right attitudes

Course Outcomes

Course Title	Core NETWORK MANAGEMENT
Code	18CMP01
	On completion of the course, students would be able to
CO-1	The learning outcomes include students gaining knowledge of network management modeling
CO-2	Another learning outcome is for students to utilize a network management application to control the transmission of a service over a hierarchical network
CO-3	Student capability development includes students gaining an understanding the structure of management information and SNMP, management protocols and the basis for device
CO-4	Security management of digital networks is a focus and students learn how to configure devices and streams to provide a secure environment
CO-5	Understanding the network management application to control the transmission of a service over a hierarchical network

Course Title	Core DATA SCIENCE IN CLOUD COMPUTING AND BIG DATA
Code	18CMP02
	On completion of the course, students would be able to
CO-1	Implementation of cloud architectural environment
CO-2	Installation and usage of virtual Environments
CO-3	Knowledge to manage Big Data using Hadoop – Map Reduce
CO-4	Performing Data Analytics on various types of data
CO-5	Able to perform Data Analysis for data on the fly and Data in motion

Course Title	Core DATA MINING AND ITS APPLICATIONS
Code	18CMP03
	On completion of the course, students would be able to
CO-1	Learn the concepts of database technology evolutionary path which has led to the need for data mining and its applications
CO-2	Examine the types of the data to be mined and present a general classification of tasks and primitives to integrate a data mining system
CO-3	Apply preprocessing statistical methods for any given raw data
CO-4	Discover interesting patterns from large amounts of data to analyze and extract patterns to solve problems, make predictions of outcomes
CO-5	Develop practical work of Data Mining techniques and design hypotheses based on the analysis to conceptualize a Data Mining solution to a practical problem

Course Title	Core OBJECT ORIENTED SOFTWARE ENGINEERING
Code	18CMP04
	On completion of the course, students would be able to
CO-1	Understand the concept of What is Software Engineering
CO-2	Student has Learned A Conceptual Model of the UML
CO-3	Students learned about roles, Task and work products for project Organizations
CO-4	Understand about Project management Activities
CO-5	Student able to understand Life Cycle Modeling and Sequential Activity

Course Title	Core SOFT COMPUTING
Code	18CMP05
	On completion of the course, students would be able to
CO-1	To understand the concepts of hard computing and soft computing concepts and models
CO-2	Ability to understand the difference between learning and programming and explore practical applications of Neural Networks (NN)
CO-3	Ability to appreciate the importance of optimizations and its use in computerscience and other domains
CO-4	Ability to analyze and appreciate the applications which can use fuzzy logic
CO-5	Students would understand the efficiency of a Neural Network and fuzzy logic and Genetic Algorithm and its various applications. Ability to design inference systems

Course Title	Core WEB APPLICATIONS DEVELOPMENT TECHNOLOGY
Code	18CMP06
	On completion of the course, students would be able to
CO-1	Understand about web applications
CO-2	Students learned about input and parameters passing in HTML
CO-3	Students have learned about Perl language and understand its functions
CO-4	Understand Methodology for data tier
CO-5	Student Learned about PHP,ASP and XML functions

Course Title	Core PROGRAMMING LAB – I
Code	18CMP07
	On completion of the course, students would be able to
CO-1	Students will get the concepts of Data Communication and Networking, Reference models
CO-2	Understand core techniques and concepts of Big Data and Hadoop ecosystem
CO-3	Understand the functionality of the various data mining and data warehousing components
CO-4	Understand the entire software engineering project process, which consists of object-oriented analysis, design, programming and testing
CO-5	Ability to analyze and appreciate the applications which can use fuzzy logic
CO-6	Gain the technical tools and techniques necessary to build dynamic websites and applications

Course Title	Core SOFTWARE AGENTS
Code	18CMP08
	On completion of the course, students would be able to
CO-1	Understand agents and their user experience
CO-2	Able to understand Reactive and Hybrid Agents, Communication and Cooperation
CO-3	Understand Approaches to knowledge base development
CO-4	Understand Methodology for building intelligent agents
CO-5	Understand Building the knowledge base through verifying, validating and maintaining the agent

Course Title	Core SOCIAL NETWORK ANALYTICS
Code	18CMP09
	On completion of the course, students would be able to
CO-1	Work on the internal components of the social network
CO-2	Model and visualize the social network
CO-3	Mine the behavior of the users in the social network
CO-4	Predict the possible next outcome of the social network
CO-5	Mine the opinion of the user

Course Title	Core ADVANCED COMMUNICATION NETWORK
Code	18CMP10
	On completion of the course, students would be able to
CO-1	Enumerate the layers of the OSI model and TCP/IP. Explain the function(s) of each layer
CO-2	Understand about Data Communications System and its components
CO-3	Identify the different types of network topologies and protocols
CO-4	Understand and building the skills of subnetting and routing mechanisms
CO-5	Familiarity with the basic protocols of computer networks, and how they can be used to assist in network design and implementation

Course Title	Discipline Specific Elective – I WAP&WML
Code	18CMP11A
	On completion of the course, students would be able to
CO-1	Understand Mobile computing applications and various schemes
CO-2	Able to understand WAP application and various functionalities
CO-3	Students learned about input and parameters passing in WML
CO-4	Student Learned about encryption technologies used in WAP security
CO-5	Understand the concepts of mobile operating systems and mobile paymentSystems

Course Title	Core BIO-METRICS
Code	18CMP12
	On completion of the course, students would be able to
CO-1	Understanding the knowledge in Biological and Behavioral Biometrics
CO-2	It possesses thorough knowledge about theory and scientific methods relevant for design, development and operation of biometric access control systems
CO-3	The student is capable of applying his/her knowledge in new fields of IT-security system
CO-4	Resolving the primary techniques and technologies used in the common Biometrics recognition system
CO-5	Understand the biometric technologies and their advantages and disadvantages

Course Title	Core PROGRAMMING LAB –II
Code	18CMP14
	On completion of the course, students would be able to
CO-1	To understand how to control components of a computer system through the use of software interrupts
CO-2	Become a social network analyst
CO-3	Understand the operation of several of the routing protocols
CO-4	The candidate possesses thorough knowledge about scientific methods relevant for design, development and operation of biometric access control systems
CO-5	Demonstrate understanding of basic concepts of probability and statistics embedded in their courses
CO-6	To motivate the students to pursue research in the area of wireless network

Course Title	Core MULTIMEDIA AND ITS APPLICATIONS
Code	18CMP15
	On completion of the course, students would be able to
CO-1	Through this course, students are expected to achieve a basic understanding of multimedia systems
CO-2	With such background equipment, students would be able to evaluate more advanced or future multimedia systems
CO-3	This course will also arouse student's interest in the course and further motivate them towards developing their career in the area of multimedia and its applications
CO-4	Outcome of the learning process is the training of the students for performing tasks in production and post-production, in the field of multimedia technologies and digital television
CO-5	Understanding the wide spectra of vocations related to the digital television, radio, Internet, animation, studio work, various types of media

Course Title	Core MACHINE LEARNING
Code	18CMP16
	On completion of the course, students would be able to
CO-1	To implement a neural network for an application of your choice using an available tool
CO-2	To implement probabilistic discriminative and generative algorithms for an application of your choice and analyze the results
CO-3	To use a tool to implement typical clustering algorithms for different types of applications
CO-4	To design and implement an HMM for a sequence model type of application
CO-5	To identify applications suitable for different types of machine learning with suitable justification

Course Title	Core ERP AND SAP ARCHITECTURE
Code	18CMP17
	On completion of the course, students would be able to
CO-1	Understand the Enterprise Activities
CO-2	Understand key business processes in an organization and identify the main integration points
CO-3	To be able to identify and describe typical functionality in an ERP system
CO-4	Effectively use SAP ERP to configure, test and execute standard business processes
CO-5	Effectively understanding SAP Business Architecture

Course Title	Core SOFTWARE TESTING
Code	18CMP18
	On completion of the course, students would be able to
CO-1	Understand the importance of Software Testing and Apply Software Testing Techniques for information systems development
CO-2	Generate test cases from software requirements using various test processes for continuous quality improvement
CO-3	Students have learned about Software Development and Quality Assurance
CO-4	Students learned about Test Management and Software Metrics
CO-5	Students learned the test Script Language and software implementation

Course Title	Core PROGRAMMING LAB –III
Code	18CMP19
	On completion of the course, students would be able to
CO-1	To teach participants how to develop multimedia programs
CO-2	Mastered the R language for the applications in machine learning Algorithms
CO-3	To make student able to build an understanding of the fundamental concepts of ERP systems, their architecture, and working of different modules in ERP
CO-4	Various test processes and continuous quality improvement
CO-5	Gains an overview of all aspects of E-Commerce

Course Title	Discipline Specific Elective – II ELECTRONIC COMMERCE
Code	18CMP21A
	On completion of the course, students would be able to
CO-1	Enumerate the e-commerce and its limitations
CO-2	Understand about web site designs
CO-3	Identify the functions of different security protection and recovery
CO-4	Understand about Project Management and Monitoring Web Site Traffic
CO-5	Understand about web linking's

Course Title	Generic Elective Course (Cluster – I) WEB DESIGN USING HTML & JAVASCRIPT (Theory)
Code	19MAP12C/19PHP15C/19STP16C
	On completion of the course, students would be able to
CO-1	Students have learned about Client-server models
CO-2	Understand the importance of HTML tags and documents
CO-3	Identify the functions of data types and variables
CO-4	Students have learned about forms and frames
CO-5	Understand about user input processing

Course Title	Generic Elective Course (Cluster – I) WEB DESIGN USING HTML & JAVA SCRIPT PRACTICALS
Code	19MAP13C/19PHP16C,/19STP17C
	On completion of the course, students would be able to
CO-1	Students have learned about Client-server models
CO-2	Understand the connectivity of Client-server models
CO-3	Identify the functions of data types and variables in JavaScript programs
CO-4	Understand the web design programs

Course Title	Core COMPUTER PROGRAMMING IN “C” LANGUAGE
Code	18ELU12
	On completion of the course, students would be able to
CO-1	To Understand the fundamentals of C programming
CO-2	To Gain Knowledge in various types of operators
CO-3	Ability to expertise in using all data types
CO-4	Ability to analyze and design Array, pointers, structure
CO-5	Ability to produce any application using file

Course Title	Core COMPUTER PROGRAMMING IN “C” LANGUAGE PRACTICALS
Code	18ELU13
	On completion of the course, students would be able to
CO-1	Ability to design various operators and to implement in the program
CO-2	Ability to implement Array Program
CO-3	Ability to analyze and design pattern occurrence
CO-4	Ability to create structure using Mark Sheet Preparation
CO-5	Ability to implement function and pointers in various application

Course Title	Core WEB DESINGING USING JAVASCRIPT
Code	18ELU17
	On completion of the course, students would be able to
CO-1	To Understand the fundamentals of JavaScript programming
CO-2	To Gain Knowledge in Web Design
CO-3	Ability to expertise in using all data types and variables
CO-4	Ability to analyze and design Array, Functions, Forms and Frames
CO-5	Ability to produce any Web Application using Java Script

Course Title	Core PRACTICAL VI-WEB DESINGING USING JAVA SCRIPT LAB
Code	18ELU20
	On completion of the course, students would be able to
CO-1	Ability to design various operators and to implement in the program
CO-2	Ability to implementHTML in Web Application program
CO-3	Ability to analyze and design using Java Script
CO-4	Ability to implement function in various Web applications

Course Title	SKILL ENHANCEMENT COURSE – I (PART-IV) INFORMATION SECURITY
Code	18SECU01
	On completion of the course, students would be able to
CO-1	Possess a fundamental knowledge of Information Security
CO-2	Understand what vulnerability is and how to address most common vulnerabilities
CO-3	Know basic and fundamental risk management principles as it relates to information Security
CO-4	Have the knowledge needed to practice safer computing and safeguard your information
CO-5	Understand basic technical controls in use today, such as firewalls and Intrusion Detection systems and exposure to cyber laws

Course Title	SKILL ENHANCEMENT COURSE CYBER SECURITY (offered to all PG Courses)
Code	18SECP01
	On completion of the course, students would be able to
CO-1	Possess a fundamental knowledge of Cyber Security
CO-2	Understand what vulnerability is and how to address most common vulnerabilities
CO-3	Know basic and fundamental risk management principles as it relates to Cyber Security
CO-4	Have the knowledge needed to practice safer computing and safeguard your information
CO-5	Understand basic technical controls in use today, such as firewalls and Intrusion Detection systems



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Programme: MSc Applied Microbiology

Programme Outcomes

	On completion of the programme, the student will be able to
PO-1	Become knowledgeable in the subject of Microbiology 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 Microbiology
PO-3	Understand and appreciate professional ethics, community living and Nation Building initiatives
PO-4	Provide fundamental and advanced knowledge and expertise in order to produce competent, creative and imaginative professionals with a strong scientific acumen
PO-5	Practice Microbiology in support of the design of interdisciplinary Lifescience systems through the application of the acquired knowledge, skills, and tools pertinent to Microbiology
PO-6	Promote independent and collaborative work, while demonstrating the professional and ethical responsibilities of the profession
PO-7	Promote development of intellectual property by publishing articles in high impact factor journals, conference proceedings, patents

Programme Specific Outcomes	
On completion of the programme, the student will be able to	
PSO-1	Develop strong basic theoretical knowledge and empower oneself for applications in various domains namely environmental, agricultural, medical, biotechnology, industrial and Food Microbiology
PSO-2	Acquire analytical skills using latent techniques and tools along with needed practical skills with an understanding of scientific, societal, safety, legal impacts, able to design and execute experiments in various fields of Microbiology
PSO-3	Continue to develop professionally through life-long learning, higher education and other creative pursuits in their areas of expertise
PSO-4	Identify, formulate, research literature and analyze complex problems reaching substantiated conclusions and succeed obtaining employment appropriate to their interests, education and will become productive and valued professional and ultimately meeting regional, national and global requirements
PSO-5	Exercise multidisciplinary Professional and Leadership qualities in responsive, ethical and innovative manner, through collaboration and outreach to disseminate knowledge to other professionals, stakeholders, policy makers and public

Course Outcomes

Course Title	Core INTRODUCTORY MICROBIOLOGY, MICROBIAL SYSTEMATICS AND DIVERSITY
Code	18MBP01
On completion of the course, students would be able to	
CO-1	Understand early developments of Microbiology. Perform Techniques in Microbiology
CO-2	Demonstrate concepts and classification of different groups of microorganism and its salient features
CO-3	Integrated and conceptual approach of the distribution of microorganisms and their diversity
CO-4	Diversification of various microorganisms

Course Title	Core MICROBIAL PHYSIOLOGY METABOLISM AND BIOLOGICAL CHEMISTRY
Code	18MBP02
On completion of the course, students would be able to	
CO-1	Understand the various nutrient transport systems
CO-2	Understand Growth, morphogenesis, endospore formation and Photosynthesis
CO-3	Follow nutrient utilization and metabolic process in microorganisms
CO-4	Regulation and interrelationships within metabolic pathways
CO-5	Molecular level architecture of cell

Course Title	Core CELL AND MOLECULAR BIOLOGY
Code	18MBP03
	On completion of the course, students would be able to
CO-1	Understand the cellular mechanism
CO-2	Overview the concepts of genome and gene structure and DNA replication
CO-3	Understand the transcription and translation process
CO-4	Follow the metabolic pattern and regulation of gene expression

Course Title	Core BIORESEARCH INSTRUMENTATION
Code	18MBP04
	On completion of the course, students would be able to
CO-1	Understand techniques in Microscopy, Spectrophotometry, centrifugation, chromatography, and electrophoresis
CO-2	Perform the instrumentation handling techniques in Microscopy, Spectrophotometry, centrifugation, chromatography, and electrophoresis
CO-3	Understand and perform Molecular Diagnostic techniques
CO-4	Apply instrumentation knowledge in various microbial and molecular diagnostic and separation techniques

Course Title	Core FOOD AND DAIRY MICROBIOLOGY
Code	18MBP05
	On completion of the course, students would be able to
CO-1	Explain the interactions between microorganisms and the food environment, and factors influencing their growth and survival
CO-2	Describe the characteristics of foodborne, waterborne and spoilage microorganisms, and methods for their isolation, detection and identification
CO-3	Know the significance of microorganisms in food fermentations and its parameters required
CO-4	Apply and incorporate the principles of food science in practical, real-world situations and problems
CO-5	Define a problem, identify potential causes and possible solutions, and make thoughtful recommendations

Course Title	Core MICROBIOLOGY PRACTICALS I
Code	18MBP06
	On completion of the course, students would be able to
CO-1	Perform hands on techniques in General Microbiology
CO-2	Perform hands on techniques in Microbial physiology
CO-3	Perform hands on techniques in Cell and Molecular Biology
CO-4	Perform hands on techniques in Bioinstrumentation
CO-5	Perform hands on techniques in Food and Dairy Microbiology

Course Title	Core MICROBIAL GENETICS AND GENETIC ENGINEERING
Code	18MBP07
	On completion of the course, students would be able to
CO-1	Understand the blue print of life and the information centers called genes
CO-2	Expose the mechanism and function of gene transfer methods
CO-3	Follow the knowledge of the basic tools in genetic engineering
CO-4	Understand concepts of genetic recombination, sequencing and gene amplification

Course Title	Core FERMENTATION AND BIOPROCESS TECHNOLOGY
Code	18MBP08
	On completion of the course, students would be able to
CO-1	Define fermentation and its type
CO-2	Enable to differentiate the steps involved in upstream and downstream processing
CO-3	Learn the kinetic parameter with respect to fluid methodology
CO-4	Visualize the various geometrical patterns of the fermentors and its application
CO-5	Learn about the industrial production of fermentative products

Course Title	Core APPLIED VIROLOGY
Code	18MBP09
	On completion of the course, students would be able to
CO-1	Understand General concepts on viruses
CO-2	Understand animal virus and their mode of action
CO-3	Understand plant virus and their mode of action
CO-4	Understand bacteriophages and their mode of action

Course Title	Core ENVIRONMENTAL AND AGRICULTURAL MICROBIOLOGY
Code	18MBP10
	On completion of the course, students would be able to
CO-1	Learn the occurrence, abundance, distribution and role of microorganisms in the environment, learn different methods for their detection and characterization
CO-2	Gain knowledge in positive and negative role of microorganisms in soil and its usefulness in treating liquid and solid waste
CO-3	Understand plant microbes interactions especially rhizosphere, phyllosphere and mycorrhizae and their applications especially the biofertilizers and their production techniques
CO-4	Comprehend the various methods to determine the Sanitary quality of water and sewage treatment methods employed in waste water treatment
CO-5	Understand the basic principle of using microorganisms in pest control and its applications

Course Title	Core MICROBIOLOGY FOR COMPETITIVE EXAMINATIONS
Code	18MBP11
	On completion of the course, students would be able to
CO-1	Understand the importance and application of CSIR-NET syllabus and preparation
CO-2	Prepare for competitive exams like CSIR/GATE
CO-3	Present better for employability
CO-4	Critical thinking ability by practicing MCQs for the CSIR contents

Course Title	Core MICROBIOLOGY PRACTICALS II
Code	18MBP12
	On completion of the course, students would be able to
CO-1	Perform hands on techniques in Environmental Microbiology
CO-2	Perform hands on techniques in Agricultural Microbiology
CO-3	Perform hands on techniques in Microbial Genetics
CO-4	Perform hands on techniques in Fermentation Technology

Course Title	Core MEDICAL BACTERIOLOGY, MYCOLOGY & PARASITOLOGY
Code	18MBP13
	On completion of the course, students would be able to
CO-1	Understand the characteristics of Gram positive and Negative microorganisms
CO-2	Study the infectious diseases and their control measures
CO-3	Know about the fungal infections and treatment
CO-4	Understand the parasitic lifecycle and their infections
CO-5	Gain knowledge on the collection and processing of patients samples

Course Title	Core IMMUNOTECHNOLOGY
Code	18MBP14
	On completion of the course, students would be able to
CO-1	Study in detail the components of the immune system
CO-2	Get idea on the antigen and antibody reactions
CO-3	Understand the hypersensitivity and autoimmune disorders
CO-4	Learn the immunological basis of infectious diseases
CO-5	Understand the concepts of transplantation immunology

Course Title	Core BIOSTATISTICS AND RESEARCH METHODOLOGY
Code	18MBP15
	On completion of the course, students would be able to
CO-1	Learn the various tools in statistics and ability to choose a tool based on data
CO-2	Apply the statistical concepts in the execution of project work in dissertation
CO-3	Have scientific and systematic approach in research
CO-4	Take up research as a carrier with confidence
CO-5	Learn the nuances of writing research articles

Course Title	Core MICROBIOLOGY FOR COMPETITIVE EXAMINATIONS - II
Code	18MBP16
	On completion of the course, students would be able to
CO-1	Understand the importance and application of CSIR-NET syllabus and preparation
CO-2	Prepare for competitive exams like CSIR/GATE
CO-3	Present better for employability
CO-4	Critical thinking ability by practicing MCQs for the CSIR contents

Course Title	Discipline Specific Elective - I PHARMACEUTICAL MICROBIOLOGY
Code	18MBP17A
	On completion of the course, students would be able to
CO-1	Well accustomed with basic chemistry of pharmaceuticals
CO-2	Comprehend the basic mechanisms of action of antimicrobials and resistance mechanisms developed against them
CO-3	Determine the basic pharmacokinetic parameters that describe drug absorption and disposition
CO-4	Do purify the drug, to evaluate the sterility, biomedical potency and its safety measures
CO-5	Develop expertise in drug therapy, synergism, antagonism and adverse reactions

Course Title	Discipline Specific Elective - I GMP, GLP and Quality Control
Code	18MBP17B
	On completion of the course, students would be able to
CO-1	Understand the good manufacturing practices and quality control
CO-2	Learn the food quality standards and hazard analysis
CO-3	Know about the Quality analysis standards
CO-4	Have an idea on internal and external quality assessment

Course Title	Core MICROBIOLOGY PRACTICALS III
Code	18MBP18
	On completion of the course, students would be able to
CO-1	Perform hands on techniques in Medical Microbiology
CO-2	Perform hands on techniques in Immunology
CO-3	Perform hands on techniques in Serology
CO-4	Perform hands on techniques in Virology
CO-5	Perform hands on techniques in Bioinformatics

Course Title	Core APPLIED BIOTECHNOLOGY
Code	18MBP20
	On completion of the course, students would be able to
CO-1	Explain the applications of biotechnological tools
CO-2	Study the engineering in plants and animals to create transgenic varieties
CO-3	Understand the concept for treating various genetic diseases
CO-4	Know about the concepts of IPR rules and regulations
CO-5	Get idea about the microorganisms involved in biodegradation pathways

Course Title	Discipline Specific Elective – II INTRODUCTION TO BIOINFORMATICS, GENOMICS & PROTEOMICS
Code	18MBP21A
	On completion of the course, students would be able to
CO-1	Understand the basics of bioinformatics, proteomics and genomics
CO-2	Gain knowledge on the big data analysis of biological information
CO-3	Learn the sequence alignment by using various tools
CO-4	Understand the concept of phylogenetic analysis
CO-5	Know about the sequencing of nucleic acids and proteins

Course Title	Discipline Specific Elective – II MICROBIAL NANOTECHNOLOGY
Code	18MBP21B
	On completion of the course, students would be able to
CO-1	Differentiate particles at macro, micro and nano level
CO-2	Explore the interdisciplinary of nanotechnology
CO-3	Synthesis nanoparticles at the laboratory scale
CO-4	Apply the basic knowledge with various application
CO-5	Learn the positive and negative aspects of nanotechnology and its present status in India

Course Title	Generic Elective Course – Theory CLINICAL MICROBIOLOGY
Code	
	On completion of the course, students would be able to
CO-1	Understand the basics and techniques in Microbiology
CO-2	Understand the methods in clinical diagnosis of microorganisms
CO-3	Learn the different culture techniques for microorganisms
CO-4	Know about the control of microorganisms by physical and chemical agents
CO-5	Study about the different characteristics of viruses

Course Title	Generic Elective Course – Practical
Code	
	On completion of the course, students would be able to
CO-1	Perform hands on skill in General Microbiology techniques
CO-2	Perform techniques in staining and micrometry
CO-3	Prepare different media and cultivate microorganisms
CO-4	Perform the different pure culture techniques
CO-5	Identify some important clinically important strains

Course Title	Certificate Course Paper INDUSTRIAL QUALITY CONTROL
Code	18MBPC01
	On completion of the course, students would be able to
CO-1	Quality Control and Quality assurance practices
CO-2	Prepare SOP's for industrial production
CO-3	Become a GMP Professional
CO-4	Quality authority in Food and Pharmaceutical industries

Course Title	Certificate Course Paper INDUSTRIAL QUALITY CONTROL PRACTICUM
Code	18MBPC02
	On completion of the course, students would be able to
CO-1	Quality Control and Quality assurance practices
CO-2	Prepare SOP's for industrial production
CO-3	Become a GMP Professional
CO-4	Quality authority in Food and Pharmaceutical industries



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Programme: MSc Environmental Science

Programme Outcomes

	On completion of the programme, the student will be able to
PO-1	Become knowledgeable in the subject of Environmental 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 Environmental Science
PO-3	Understand and appreciate professional ethics, community living and Nation Building initiatives
PO-4	Competency in applying acquired knowledge and skills to manage Problems associated with environment
PO-5	Apply decision making methodologies to evaluate solutions for Efficiency, effectiveness and environmental sustainability
PO-6	Analyze issues and problems of local, national and international Concerns pertain to environment domain and act aptly
PO-7	Apply effective, creative and innovative solutions, both independently and cooperatively, to present and future Environmental problems
PO-8	Initiative to create social consciousness on various environmental Problems

Programme Specific Outcomes

	On completion of the programme, the student will be able to
PSO-1	Apply the knowledge of interdisciplinary sciences in the domain of Environmental Science
PSO-2	Solve the complex problems in the field of Environmental Science with an understanding of the societal, legal and cultural impacts of the solution
PSO-3	Initiate technocratic, ecofriendly and sustainable developments
PSO-4	Form a part of member in a team with right attitudes

Course Outcomes

Course Title	Core PRINCIPLES OF ECOLOGY AND ENVIRONMENT
Code	18ESP01
	On completion of the course, students would be able to
CO-1	Understand various ecosystem's structure, function and characteristics
CO-2	Acquired knowledge on species inter and intraspecies interaction
CO-3	Know Charactersation of community and its dominance as well as coexisting with other community
CO-4	Realise the importance of protection and conservation of biodiversity
CO-5	Differentiate various habitats and its salient feature

Course Title	Core AIR POLLUTION AND MANAGEMENT
Code	18ESP02
	On completion of the course, students would be able to
CO-1	Gain knowledge on atmospheric layer and its importance
CO-2	Acquired the details about source, types and impacts of air pollution
CO-3	Know the sampling and analysis of the air pollutants of ambient environment
CO-4	Understand the various air pollution control measures
CO-5	Aware of various polices related to air pollution prevention and control

Course Title	Core ENERGY AND ENVIRONMENT
Code	18ESP03
	On completion of the course, students would be able to
CO-1	Understand the basic aspects of energy
CO-2	Realise the importance of energy production
CO-3	Facilitate to differentiate renewable and non-renewable energy resources
CO-4	Gain knowledge on energy production from waste
CO-5	Assist to envisage a need for cleaner energy technologies development

Course Title	Core ENVIRONMENTAL TOXICOLOGY
Code	18ESP04
	On completion of the course, students would be able to
CO-1	Know the route of entry and its response of toxins and toxicants
CO-2	Know comprehensively about the types of toxicant and contaminants
CO-3	Mobilization and disposition of toxins in human system
CO-4	Gain the knowledge on risk of contaminants when exposed
CO-5	Understand the risk associated with various contaminants

Course Title	Core INSTRUMENTAL METHODS OF ANALYSIS
Code	18ESP06
	On completion of the course, students would be able to
CO-1	Understand the analytical techniques with applications
CO-2	Gain information about working mechanism of instruments
CO-3	Acquire knowledge on qualitative and quantitative techniques
CO-4	Recognize the suitable instrumental technique for analyzing environmental samples
CO-5	Get confidence to carryout statistical analysis and infer the results

Course Title	Core WATER POLLUTION AND MANAGEMENT
Code	18ESP07
	On completion of the course, students would be able to
CO-1	Justify the water as an universal solvent
CO-2	Understand various types water pollutants
CO-3	Differentiate the water quality need for any designated purpose like agriculture, industrial, domestic and recreational requirements
CO-4	Realize the difference between the polluted water and unpolluted water
CO-5	Gain knowledge on wastewater treatment and recycling

Course Title	Core SOIL POLLUTION AND SOLID WASTE MANAGEMENT
Code	18ESP08
	On completion of the course, students would be able to
CO-1	Comprehend the structure and characteristics of soil
CO-2	Gain knowledge on hazardous and biomedical waste management
CO-3	Realize the importance of waste segregation and waste specific treatment/ safe disposal technique
CO-4	Understand the importance of recycling, reusing of the valuable components from the end of use products
CO-5	Become conscious on emergency planning in various industrial sector

Course Title	Core ENVIRONMENTAL IMPACT ASSESSMENT
Code	18ESP09
	On completion of the course, students would be able to
CO-1	Realize the role EIA in decision making
CO-2	Identify various impacts of any proposed projects
CO-3	Understand the procedures for environmental clearance
CO-4	Gain knowledge on environmental audit and its outcomes
CO-5	Understand the role of various sectors on disaster management

Course Title	Core ENVIRONMENTAL MICROBIOLOGY
Code	18ESP12
	On completion of the course, students would be able to
CO-1	Gain knowledge on microbial diversity
CO-2	Know about microbiological standards for water
CO-3	Compare microbial diversity among the environmental compartments
CO-4	Acquire knowledge on microbes aid in containments degradation
CO-5	Explore various updated methods of bioremediation technique

Course Title	Core CLIMATE CHANGES AND MANAGEMENT
Code	18ESP13
	On completion of the course, students would be able to
CO-1	Understand and differentiate the meteorological and climatic features
CO-2	Recognize the human influence on climatic change
CO-3	Differentiate sector wise impact on climate change
CO-4	Realize various mitigation measures and actions taken against the climate change
CO-5	Understand to relate the climate change with the concept of El Niño and La Niño actions

Course Title	Core REMOTE SENSING AND GIS APPLICATIONS IN ENVIRONMENTAL MANAGEMENT
Code	18ESP14
	On completion of the course, students would be able to
CO-1	Understand the characteristics of GIS and Remote sensing
CO-2	Gain knowledge on Toposheet and digital maps usage
CO-3	Acquire knowledge on scanner and sensor in application
CO-4	Know about the importance of image processing and enhancement of GIS and Remote sensing
CO-5	Attempt GIS and RS applications on various domains of environmental studies

Course Title	Discipline Specific Elective – I ENVIRONMENTAL ENGINEERING
Code	18ESP15A
	On completion of the course, students would be able to
CO-1	Understand the design feature of water treatment
CO-2	Know about aerobic and anaerobic water treatment technology
CO-3	Understand various factors affecting the water treatment
CO-4	Know the advantages of anaerobic treatment over aerobic treatment
CO-5	Gain knowledge on design and suitability of air pollution control devices

Course Title	Discipline Specific Elective – I INDUSTRIAL HAZARDS
Code	18ESP15B
	On completion of the course, students would be able to
CO-1	Evaluate the safety measures taken at work place
CO-2	Acquire knowledge on mechanical hazards
CO-3	Identify and determine the electrical hazards
CO-4	Compare various standards of safety in work place
CO-5	Think about proactive safety measures against various hazards

Course Title	Core INDUSTRIAL PROCESS AND WASTE MANAGEMENT
Code	18ESP20
	On completion of the course, students would be able to
CO-1	Gain knowledge on various industrial process
CO-2	Characterize and differentiate industrial emissions
CO-3	Evaluate specific pollutants of various industries
CO-4	Acquire knowledge on waste to wealth conversion
CO-5	Update the knowledge on control measures

Course Title	Discipline Specific Elective - II NATURAL RESOURCES AND CONSERVATION
Code	18ESP21A
	On completion of the course, students would be able to
CO-1	Understand the value of natural resources
CO-2	Investigate pros and cons of non-renewable energy utilization
CO-3	Understand environmental implications of resource extraction
CO-4	Awareness on natural resources conservation practices
CO-5	Need for the conservation of the genetic resources

Course Title	Discipline Specific Elective - II SAFETY IN PROCESS PLANTS
Code	18ESP21B
	On completion of the course, students would be able to
CO-1	Inculcate safety as an integral part of industrial process
CO-2	Understand emergency planning and preparedness
CO-3	Know plant layout specifications and other requirements pertain to safety
CO-4	Realize the importance of periodical medical checkup and documentation
CO-5	Know about the functions of respiratory and non-respiratory personal protective devices.

Course Title	Generic Elective Course – Cluster II ENVIRONMENTAL POLLUTION AND MANAGEMENT - THEORY
Code	
	On completion of the course, students would be able to
CO-1	Understand the basics of environmental pollution
CO-2	Acquire knowledge on water treatment technologies
CO-3	Know how to collect and analyze the air samples
CO-4	Gain knowledge on pollution reduction technologies
CO-5	Realize various environmental issues, policies and its impact regarding pollution and management



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Programme: MSc Applied Electronics

Programme Outcomes

	On completion of the programme, the student will be able to
PO-1	Become knowledgeable in the subject of Applied 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 Applied Electronics
PO-3	Understand and appreciate professional ethics, community living and nation building initiatives
PO-4	Acquire in-depth knowledge in the broad area of Microcontrollers and allied disciplines, with an ability to discriminate, evaluate, analyze and synthesize the acquired knowledge
PO-5	Learn to use the engineering software, hardware, design and modeling techniques that are the latest in the field of electronics
PO-6	Develop the ability to understand clearly the steps in designing electronic systems which are in tune with current technology and adaptable for future changes in technology
PO-7	Ability to design and develop practical solutions for real-time problems in the domain of Applied Electronics
PO-8	An ability to apply the acquired knowledge in the field of Applied Electronics

Programme Specific Outcomes

	On completion of the programme, the student will be able to
PSO-1	Apply the knowledge of Electronics in the domain of Embedded System
PSO-2	Enhance and develop electronic system and also to evaluate the system based on the academia and industry relationship
PSO-3	Work professionally and ethically in applied electronics and related areas
PSO-4	Form a part of member in a team with right attitudes

Course Outcomes

Course Title	Core COMMUNICATION SYSTEMS
Code	18ELP01
	On completion of the course, students would be able to
CO-1	Apply the concept of analog modulation and digital modulation techniques in communication system
CO-2	Apply the basic knowledge of waveguide and microwave resonator circuits and microwave semiconductor devices
CO-3	Recognize and classify the structures, types of losses and able to analyze various coupling losses and able to know the connection establishment in wireless PAN

Course Title	Core ANALOG AND DIGITAL CIRCUIT DESIGN
Code	18ELP02
	On completion of the course, students would be able to
CO-1	Design any analog circuits using op-amp
CO-2	Develop the digital circuits of any real-time application
CO-3	Know the performance and analyze of the analog and digital circuits

Course Title	Core POWER ELECTRONICS
Code	18ELP03
	On completion of the course, students would be able to
CO-1	Express the design and control of rectifiers, inverters
CO-2	Design of power electronic converters in power control applications
CO-3	Ability to express commutation methods
CO-4	Ability design AC voltage controller and Cyclo converter and Chopper circuits

Course Title	Core 8-BIT MICROCONTROLLER
Code	18ELP04
	On completion of the course, students would be able to
CO-1	Write assembly/Embedded C language code for 8- bit PIC Microcontroller
CO-2	Interface different Peripherals
CO-3	Construct and troubleshoot a microcontroller circuit for various applications

Course Title	Core PRACTICAL - I ANALOG AND DIGITAL CIRCUIT DESIGN LAB
Code	18ELP05
	On completion of the course, students would be able to
CO-1	Develop the designing knowledge of analog circuits using op-amp
CO-2	Design the combinational and sequential logic circuits
CO-3	Perform the circuit designing knowledge in both analog and digital circuits

Course Title	Core PRACTICAL – II POWER ELECTRONICS LAB
Code	18ELP06
	On completion of the course, students would be able to
CO-1	Understand the behavior of semiconductor devices operated as power switches
CO-2	Analyze and design dc-to-dc converters and dc to ac inverters
CO-3	Design, set up, and test power electronic circuits

Course Title	Core PRACTICAL - III 8 – BIT MICROCONTROLLER LAB
Code	18ELP07
	On completion of the course, students would be able to
CO-1	Gain knowledge in programming PIC microcontroller
CO-2	Know the operation of ADC and DAC
CO-3	Know the operation of peripheral interfacing

Course Title	Core COMPUTER NETWORKS AND OPERATING SYSTEMS
Code	18ELP08
	On completion of the course, students would be able to
CO-1	Identify terms and concepts related to networks and operating systems
CO-2	Recognize basic network components and its functions
CO-3	Describe the characteristics, application of operating systems
CO-4	Understand operation of networks and OS
CO-5	Understand the working principles of computer networks and internals of operating systems

Course Title	Core ADVANCED DIGITAL SYSTEM DESIGN
Code	18ELP09
	On completion of the course, students would be able to
CO-1	Capable of knowing the basic fundamentals of Verilog HDL
CO-2	Learn the programming concept for designing digital circuits
CO-3	Design and use programming tools for implementing digital circuits of industry standards

Course Title	Core PROGRAMMABLE LOGIC CONTROLLER
Code	18ELP10
	On completion of the course, students would be able to
CO-1	Gain knowledge on Programmable Logic Controllers
CO-2	Create ladder diagrams and functional block diagrams for industrial applications
CO-3	Gain knowledge on SCADA hardware, software and protocols

Course Title	Core 16 – BIT MICROCONTROLLER
Code	18ELP11
	On completion of the course, students would be able to
CO-1	Develop the depth of knowledge in MSP430 Microcontroller
CO-2	Learn the programming concept of MSP430 Microcontroller
CO-3	Know the programming knowledge of the peripherals of MSP430

Course Title	Core PRACTICAL – IV - ADVANCED DIGITAL SYSTEM DESIGN LAB
Code	18ELP12
	On completion of the course, students would be able to
CO-1	Map it onto FPGA platform and carry out a series of validations design starting from design entry to hardware testing
CO-2	Design and carry out simulations of simple digital circuits
CO-3	Develop the digital circuits with user specification

Course Title	Core PRACTICAL – V PROGRAMMABLE LOGIC CONTROLLER LAB
Code	18ELP13
	On completion of the course, students would be able to
CO-1	Ability to learn the concept of ladder diagrams using PLC
CO-2	Know the interfacing and programming control using PLC
CO-3	Ability to design PLC programs for industrial applications

Course Title	Core PRACTICAL - VI 16 – BIT MICROCONTROLLER LAB
Code	18ELP14
	On completion of the course, students would be able to
CO-1	Utilize the MSP 430 microcontroller for various applications
CO-2	Assess flash controller programming - data flash with erase, verify and fusing
CO-3	Program MSP 430 microcontroller and its usage

Course Title	Generic Elective Course – Cluster – IV PC HARDWARE AND TROUBLESHOOTING
Code	19 ENP15A
	On completion of the course, students would be able to
CO-1	Gain knowledge on computer hardware
CO-2	Develop knowledge in troubleshooting and maintaining the PC
CO-3	Know the basics of laptop maintenance

Course Title	Core MICROPROCESSOR AND INTERFACING
Code	18SSP26
	On completion of the course, students would be able to
CO-1	Gain through knowledge on processors
CO-2	Develop software using assembly language programming
CO-3	Know the Interfacing concepts of various peripherals

Course Title	Core MICROPROCESSOR AND INTERFACING LAB
Code	18SSP30
	On completion of the course, students would be able to
CO-1	Use various instructions of processor practically
CO-2	Develop software in Assembly Language program
CO-3	Design hardware circuits and interface it with the processor

Course Title	Core BASIC ELECTRONICS FOR CHEMISTS
Code	18CHP04
	On completion of the course, students would be able to
CO-1	Identify terms and concepts related to AC, DC and electronic devices
CO-2	Recognize basic electronic components used for different electronic functions
CO-3	Describe the characteristics , application of operational amplifier and Timer IC
CO-4	Understand operation of flip-flop, counters, registers, ADC and DAC circuits
CO-5	Understand the working principles of electronic instruments used in laboratories and select them according to their needs

Course Title	Core DIGITAL SIGNAL PROCESSING
Code	18ELP15
	On completion of the course, students would be able to
CO-1	Perform frequency transforms for the signals
CO-2	Design IIR and FIR filters
CO-3	Finite word length effects in digital filters

Course Title	Core 32-BIT MICROCONTROLLER
Code	18ELP16
	On completion of the course, students would be able to
CO-1	Develop the depth of knowledge in ARM Cortex M4 Processor
CO-2	Learn the programming concept of CC32xx Microcontroller
CO-3	Develop the programming knowledge of the peripherals of CC32xx

Course Title	Core ADVANCED PROGRAMMING LANGUAGES
Code	18ELP17
	On completion of the course, students would be able to
CO-1	Identify terms and concepts related to Programming Language
CO-2	Understand different types of Programming Languages
CO-3	Describe the applications of Programming Languages

Course Title	Discipline Specific Elective - I INSTRUMENTATION AND CONTROL SYSTEM
Code	18ELP18A
	On completion of the course, students would be able to
CO-1	Gain knowledge in using transducer and instruments
CO-2	Improve the system performance by selecting a compensator for a specific application
CO-3	Apply various time domain and frequency domain techniques to assess the system performance

Course Title	Discipline Specific Elective - I EMI AND EMC TECHNIQUES
Code	18ELP18B
	On completion of the course, students would be able to
CO-1	Identify terms and concepts related to interferences
CO-2	Recognize basic regulations and standards interferences
CO-3	Understand to control the various interferences

Course Title	GENERIC ELECTIVE COURSE – CLUSTER – IV PC HARDWARE AND TROUBLESHOOTING
Code	18ELP19D
	On completion of the course, students would be able to
CO-1	Gain knowledge on computer hardware
CO-2	Develop knowledge in troubleshooting and maintaining the PC
CO-3	Know the basics of laptop maintenance

Course Title	Core PRACTICAL VII - DIGITAL SIGNAL PROCESSING LAB
Code	18ELP20
	On completion of the course, students would be able to
CO-1	Understand the concepts of filter designs
CO-2	Design and implement convolution techniques
CO-3	Understand the concept of graphics designs

Course Title	Core PRACTICAL - VIII - 32 – BIT MICROCONTROLLER LAB
Code	18ELP021
	On completion of the course, students would be able to
CO-1	Utilize the CC32xx microcontroller for various applications
CO-2	Assess ARM Cortex M4 processor programming - data flash with erase, verify and fusing
CO-3	Program CC32xx microcontroller and its usage

Course Title	Core IoT AND ITS APPLICATIONS
Code	18ELP22
	On completion of the course, students would be able to
CO-1	Understand the design architecture of IoT
CO-2	Make choice of protocols and deployment in solutions
CO-3	Comprehend the design perspective of IoT based products/services

Course Title	Core AUTOMOTIVE ELECTRONICS
Code	18ELP23
	On completion of the course, students would be able to
CO-1	Develop fundamentals of Automotive Electronics, fuel injection and ignition systems
CO-2	Gain application knowledge of electronics in Automobile engineering
CO-3	Understand knowledge about automotive protocols

Course Title	Discipline Specific Elective – II ROBOTICS AND AUTOMATION
Code	18ELP24A
	On completion of the course, students would be able to
CO-1	Software design and testing using multithreading and debugging
CO-2	Learn the function and purpose of each hardware and software component associated with it
CO-3	Write and develop their own code and then build their own fully functioning robotics system

Course Title	Discipline Specific Elective – II DIGITAL IMAGE PROCESSING
Code	18ELP24B
	On completion of the course, students would be able to
CO-1	Apply image enhancement and restoration techniques
CO-2	Use image compression and segmentation techniques
CO-3	Represent features of images

Course Title	Core PRACTICAL – IX - IOT PROGRAMMING LAB
Code	18ELP25
	On completion of the course, students would be able to
CO-1	Understand the design architecture of IoT
CO-2	Make choice of protocols and deployment in solutions
CO-3	Comprehend the design perspective of IoT based products/services



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Programme: MScCostume 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 photo shoot, Advertisements, etc.
PO-6	Join as aQuality 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 to
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

Course Title	Core ADVANCED TEXTILE SCIENCE
Code	18CDP01
	On completion of the course, students would be able to
CO-1	Identify the recent textile fibres and their process
CO-2	Know about the advanced & recent fibres
CO-3	Gain the knowledge on manufacturing process of yarns

Course Title	Core FABRIC MANUFACTURING AND TECHNOLOGY
Code	18CDP02
	On completion of the course, students would be able to
CO-1	Outline the process flow for woven & knitted fabric manufacturing
CO-2	Explain the various mechanisms involved in the fabric manufacturing
CO-3	Create the new designs in the fabric formation
CO-4	List out the Application of weft and warp knit fabric in Technical Textiles
CO-5	Calculate the Production of knitting machines and its cycle process & Analysis the Seamless knitting

Course Title	Core APPAREL MANUFACTURING TECHNOLOGY
Code	18CDP03
	On completion of the course, students would be able to
CO-1	Develop Managerial skill to maintain the apparel industry
CO-2	Improve management skill to increase production & Standard of living
CO-3	Become a Category Manager in Apparel industry
CO-4	Identify the production preplanning to succeed in productivity

Course Title	Core JEWELLERY & ACCESSORIES DESIGNING PRACTICAL
Code	18CDP04
	On completion of the course, students would be able to
CO-1	Become an entrepreneur in the field of jewellery making
CO-2	Become an designer in the field of accessory design
CO-3	Enhance the style of their own creativity

Course Title	Core FASHION DRAPING & CONSTRUCTION PRACTICAL
Code	18CDP05
	On completion of the course, students would be able to
CO-1	Improved manual skills of draping
CO-2	Work with professionals
CO-3	International boutique ambient
CO-4	Improve their (draping) portfolio

Course Title	Core FREELANCE PORTRAYAL PRACTICALS-I
Code	18CDP06
	On completion of the course, students would be able to
CO-1	Designing for boutiques & manufacturing units
CO-2	Their creativity on costume designing
CO-3	Freelance designs

Course Title	Core CASE STUDY PRACTICAL – I
Code	18CDP07
	On completion of the course, students would be able to
CO-1	Gain vast knowledge in the selected area and understand the industrial needs
CO-2	Identify industrial problem and solutions for it
CO-3	Learn SWOT analysis

Course Title	Core ADVANCED PROCESSING AND FINISHING
Code	18CDP08
	On completion of the course, students would be able to
CO-1	Ability to work with the dyeing industry
CO-2	Get skills in the dye fixation, shade % methods
CO-3	Ability to solve problems in the effluent treatment industry
CO-4	Application in the various research fields.

Course Title	Core TECHNICAL TEXTILES
Code	18CDP10
	On completion of the course, students would be able to
CO-1	Design about wearable computers by interactive electronic textiles
CO-2	Design new dress with the acquired knowledge in the fire fighting clothing
CO-3	Develop stab protecting and bullet proof vests

Course Title	Core FREELANCE PORTRAYAL PRACTICAL – II
Code	18CDP11
	On completion of the course, students would be able to
CO-1	Do freelance designing
CO-2	Enhance the style of their own creativity
CO-3	Approach for modeling of garments from fashion drawings
CO-4	Communicate fashion ideas in a visual form with illustration origin

Course Title	Core APPAREL PROCESSING AND FINISHING PRACTICAL
Code	18CDP12
	On completion of the course, students would be able to
CO-1	Textile dyeing and printing
CO-2	Print designing
CO-3	Textile pre-treatment such as bleaching, sizing, scouring etc.

Course Title	Core ADVANCED APPAREL DESIGNING & CONSTRUCTION PRACTICAL
Code	18CDP13
	On completion of the course, students would be able to
CO-1	Become an industrial garment designer
CO-2	Handle various fabrics for garments of different needs
CO-3	Become a bridal designers

Course Title	Core CASE STUDY II – PRACTICAL
Code	18CDP14
	On completion of the course, students would be able to
CO-1	Know about R&D in textiles industry
CO-2	Get an idea about how to choose their research project.
CO-3	Learn SWOT analysis on the topic/ department choosed

Course Title	Discipline Specific Elective – I NON WOVEN
Code	18CDP15A
	On completion of the course, students would be able to
CO-1	Understand the fiber preparation processes
CO-2	Understand the nonwoven fabric and its techniques
CO-3	Knowledge on various web structures and formation
CO-4	Understand the web bonding processes
CO-5	Understand the advanced non woven finishing processes

Course Title	Discipline Specific Elective – I NANO TECHNOLOGY
Code	18CDP15B
	On completion of the course, students would be able to
CO-1	Understand the concepts of nano technology
CO-2	Analyze the Structural properties of nano materials
CO-3	Synthesis the metal nano particles and application of same on textile materials
CO-4	Finish the textile materials for imparting functional properties

Course Title	Core TEXTILE QUALITY ASSURANCE
Code	18CDP16
	On completion of the course, students would be able to
CO-1	Gain knowledge about advance methods and techniques for fibre testing
CO-2	Understand about mechanical and functional properties of fabric
CO-3	Quality parameters for fabrics suitable for various end uses
CO-4	Acquire knowledge in understanding comfort properties, fabric appearance and garment quality

Course Title	Core APPAREL TESTING & QUALITY STANDARDS PRACTICAL
Code	18CDP17
	On completion of the course, students would be able to
CO-1	Prepare test reports for fiber, yarn ,fabric and garment
CO-2	Analyze the given woven and knitted fabrics
CO-3	Interpretation of the results with statistical significance

Course Title	Core HOME TEXTILES PRACTICAL
Code	18CDP18
	On completion of the course, students would be able to
CO-1	Gain knowledge in the field of home textiles
CO-2	Innovation in the theme based designing
CO-3	Design Coordinator to interior designer
CO-4	Do trend setup for the upcoming home textile products

Course Title	Core SAMPLING & DOCUMENTATION PRACTICAL
Code	18CDP19
	On completion of the course, students would be able to
CO-1	Know the documentation procedures of the garment industry
CO-2	Gained the knowledge on industry based design for the current market
CO-3	Understand the sampling department works

Course Title	Core COMPUTER AIDED FASHION AND TEXTILE DESIGNING PRACTICAL
Code	18CDP20
	On completion of the course, students would be able to
CO-1	Create logo designs with corel draw
CO-2	Develop portfolio boards
CO-3	Create basic croquie with garment in Illustrator
CO-4	Gain knowledge on basic pattern making techniques and methods
CO-5	Create designs using design studio software

Course Title	Core INTERNSHIP
Code	18CDP21
	On completion of the course, students would be able to
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, Environment and Pollution Control, Management Information
CO-3	Avail knowledge on various sector skills in apparel, textile and designing areas

Course Title	Discipline Specific Elective – II FASHION BRANDING
Code	18CDP23A
	On completion of the course, students would be able to
CO-1	Identify the fashion branding
CO-2	Know about the global branding techniques
CO-3	Gain the knowledge on strategy and concepts of branding

Course Title	Discipline Specific Elective – II VISUAL MERCHANDISING
Code	18CDP23B
	On completion of the course, students would be able to
CO-1	Know the actual concepts of fashion display principles
CO-2	Acquire knowledge on visual merchandising
CO-3	Know to use the design elements for visual merchandising and gain

Course Title	Cores TOTAL QUALITY MANAGEMENT IN APPAREL INDUSTRY
Code	18CDP24
	On completion of the course, students would be able to
CO-1	Gain knowledge about Textile quality concepts and know about the quality assurance
CO-2	Develop knowledge in understanding quality and importance of TQM
CO-3	Learn about application of TQM tools
CO-4	Gain knowledge about the various national, international standards and certification agencies

Course Title	Core COSTUMES, GROOMING & PHOTOGRAPHY PRACTICAL
Code	18CDP25
	On completion of the course, students would be able to
CO-1	Enable to start their own beauty salon
CO-2	Enhance their self-grooming skills
CO-3	Establish themselves as makeup artist
CO-4	Became an effective fashion photographer

Course Title	Core FASHION PORTFOLIO PRESENTATION
Code	18CDP26
	On completion of the course, students would be able to
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

Course Title	Core PROJECT WORK
Code	18CDP27
	On completion of the course, students would be able to
CO-1	Develop the awareness of various textile/ apparel fields
CO-2	Prepare the textile products by their own for industry uses
CO-3	Gain knowledge on present industry trend and market

Course Title	Generic Elective Course FASHION DESIGN AND VISUAL MERCHANDISING
Code	18GECIDC
	On completion of the course, students would be able to
CO-1	Explore career choice in visual merchandising
CO-2	Analyze principle of design
CO-3	Familiar with fashion concepts
CO-4	Apply knowledge in the field of designing and visual merchandising
CO-5s	Identify opportunity in designing



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Programme: MSc Biotechnology

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	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	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

	On completion of the programme, the student will be able to
PSO-1	Apply the knowledge of Biotechnology in the domain of Agriculture / Medicine /Environment / Pharma Biotech
PSO-2	Solve the complex problems using Computer Science 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

Course Title	Core CELL DYNAMICS
Code	18BTP01
	On completion of the course, students would be able to
CO-1	Quantify and purify different cell types
CO-2	Prudently use recently emerging role of specific integrins as Mechano transducers
CO-3	Devise new molecular tools for prognosis of cancer
CO-4	Relate the cell cycle to onset of cancer
CO-5	Model signaling networks and use tools to compute dynamical properties of biological systems

Course Title	Core STRUCTURAL BIOLOGY AND CHEMISTRY OF PROTEINS
Code	18BTP02
	On completion of the course, students would be able to
CO-1	Use protein architecture for research
CO-2	Discover the interactions that hold proteins together
CO-3	Elucidate protein structure
CO-4	Comprehend the most important domain structures of proteins
CO-5	Correlate structure and functions of proteins

Course Title	Core MOLECULAR BIOLOGY
Code	18BTP03
	On completion of the course, students would be able to
CO-1	Identify the structure and organization of genetic material
CO-2	Appreciate the accuracy and precision of replication
CO-3	Correlate the relation of biomolecules in the regulation of genes
CO-4	Classify protein modifications and transport
CO-5	Enlist various reasons and effects of DNA modifications

Course Title	Core BASICS OF NEUROSCIENCE
Code	18BTP04
	On completion of the course, students would be able to
CO-1	Correlate neuronal signaling and other signaling cascades and their interplay
CO-2	Apply the basic knowledge of neuroscience and relate them to real lifesituations
CO-3	Devise methods for treating neuro diseases
CO-4	Apply knowledge to comprehending neurodegenerative diseases
CO-5	Participate in cutting edge neuroscience research

Course Title	Core METABOLIC REGULATION
Code	18BTP05
	On completion of the course, students would be able to
CO-1	Recognize the different types of biochemical reactions/ pathways essential for life
CO-2	Interpret how allosteric regulators may inhibit or stimulate the activity of an enzyme
CO-3	Correlate basic energy metabolism to health status
CO-4	Enlist the role of various organs and organelles in metabolism
CO-5	Inter relate biochemical processes with specific control sites and key junctions

Course Title	Core INTRODUCTION TO BIOCHEMICAL & MICROBIOLOGY TECHNIQUES PRACTICAL
Code	18BTP06
	On completion of the course, students would be able to
CO-1	Comprehend and understand biochemical reactions
CO-2	Interpretation of Microbial techniques
CO-3	Commensurate the practical knowledge to its application
CO-4	Exploit the basis for research integration
CO-5	Get appraised for job openings in the field of biochemistry and microbiology

Course Title	Core RECOMBINANT DNA TECHNOLOGY
Code	18BTP07
	On completion of the course, students would be able to
CO-1	Have Technical knowhow on manipulating genes and genomes
CO-2	Have knowledge to construct vectors and apply them for cloning
CO-3	Be competent in handling PCR and related techniques
CO-4	Be proficient in conducting genetic engineering experiments
CO-5	Be competent enough to handle recombinant strains at industrial scale

Course Title	Core GENOMICS AND PROTEOMICS
Code	18BTP08
	On completion of the course, students would be able to
CO-1	Interpret genome proteome data obtained through high throughput techniques
CO-2	Critically analyze and solve gene/ protein structure function relationship
CO-3	Use genome proteome information on agri, health sector
CO-4	Comprehend the techniques for drug design
CO-5	Apply the acquired knowledge for pharmacogenomics

Course Title	Core INTRODUCTION TO BIOINFORMATICS
Code	18BTP09
	On completion of the course, students would be able to
CO-1	Use advanced information and computational technologies for problems in biology most commonly molecular biology
CO-2	Analyze and identify sequence similarity with skills that can empower biologists to make use of their own data for understanding of biological processes
CO-3	Employ tools for analysis and identification of disease genes
CO-4	Characterize genes, determine structural and physiochemical properties of protein, phylogenetic analysis and perform simulations
CO-5	Be compatible to perform in silico analysis

Course Title	Core IMMUNOTECHNOLOGY
Code	18BTP10
	On completion of the course, students would be able to
CO-1	Explain the recognition and response of an immune system
CO-2	Comprehend the functionality of the immune cells
CO-3	Analyze the dissimilarities in cell signaling and activation
CO-4	Distinguish between the types of immune response
CO-5	Develop new immuno diagnostic products

Course Title	Core MOLECULAR BIOLOGY, rDNA TECHNOLOGY AND IMMUNOTECHNOLOGY PRACTICAL
Code	18BTP11
	On completion of the course, students would be able to
CO-1	Precisely isolate of nucleic content from various biological sources
CO-2	Isolate and assess genome and proteome content
CO-3	Clone specific gene to produce recombinant products
CO-4	Interpret antigen antibody relativity
CO-5	Identify viral/ pathogenic infections at least concentrations

Course Title	Core BIOINFORMATICS PRACTICAL
Code	18BTP12
	On completion of the course, students would be able to
CO-1	Promote acquisition of knowledge on Genome and proteome data mining
CO-2	Perform analyses of sequences, database searches, sequence comparison, visualization and analysis of protein structures and phylogenetic analyses
CO-3	Describe the most important principles in gene prediction methods
CO-4	Explain the principles of computational methods for the prediction of secondary structure elements from protein sequence, prediction and modeling of three-dimensional protein structures homology modeling, threading and ab initio methods
CO-5	Enable better understanding key aspects related to the longitudinal processes of the bioinformatics learning tightly linked to knowledge and skills in the biotechnology curriculum such as multiple modeling representations of a gene or a protein, the transition between DNA-RNA-protein levels

Course Title	Discipline Specific Elective – I BIOPROCESS TECHNOLOGY
Code	18BTP13A
	On completion of the course, students would be able to
CO-1	Apply the knowledge on fermentation technology
CO-2	Have idea to produce economically important products
CO-3	Find out newer methods and applications of microorganisms.
CO-4	Have the essential capacity for an entrepreneurial venture
CO-5	Translate the knowledge acquired for hi tech research

Course Title	Discipline Specific Elective – I BIOPHYSICS
Code	18BTP13B
	On completion of the course, students would be able to
CO-1	Relate biophysical concepts to analytical methods
CO-2	Interpret analytical data meaningfully

Course Title	Core ANIMAL CELL BIOTECHNOLOGY
Code	18BTP15
	On completion of the course, students would be able to
CO-1	Understand the various methods used to culture specialized cells
CO-2	Interpret and characterise cell lines.
CO-3	Apprehend transfer techniques of animal cell culture
CO-4	Translate the emerging technologies in animal cell culture
CO-5	Acquire clinical importance of tissue engineering

Course Title	Core PLANT BIOTECHNOLOGY
Code	18BTP16
	On completion of the course, students would be able to
CO-1	Apply the knowledge of plant tissue culture to commercial scales
CO-2	Develop transgenic plants
CO-3	Produce secondary metabolite through plant tissue culture
CO-4	Establish entrepreneurial ventures
CO-5	Facilitate research and development in nice areas of plant Biotechnology

Course Title	Core NANOBIOTECHNOLOGY
Code	18BTP17
	On completion of the course, students would be able to
CO-1	Use various nano characterization techniques
CO-2	Industrially apply chemical and physical processes involved in the synthesis and properties of nanoparticles and nanocomposites
CO-3	Produce and apply various types of nanostructured materials
CO-4	Demonstrate the ability to understand and develop nanomedicines based on nanomaterials
CO-5	Assess the impact of nanomaterials on the society including health, environment and energy

Course Title	Core PLANT TISSUE CULTURE, NANOBIO TECHNOLOGY AND BIOPROCESS TECHNOLOGY PRACTICAL
Code	18BTP18
	On completion of the course, students would be able to
CO-1	Establish in vitro plant cell culture
CO-2	Create plants with expected trait
CO-3	synthesize nanoparticles
CO-4	Productively translate research concepts in an industrial perspective
CO-5	Describe and analyze the growth parameters of a Bioreactor

Course Title	Discipline Specific Elective – II PHARMACEUTICAL BIOTECHNOLOGY
Code	18BTP19A
	On completion of the course, students would be able to
CO-1	Apply the basic knowledge involved in drug preparation and the classical treatment processes
CO-2	Correlate the effects of drugs, bio-assay and interpretation
CO-3	Can partake in clinical research
CO-4	Have commendable research aptitude for drug designing
CO-5	Appraised for job openings in the field of pharmaceuticals

Course Title	Discipline Specific Elective – II DIAGNOSTIC TECHNIQUES
Code	18BTP19B
	On completion of the course, students would be able to
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

Course Title	Core RESEARCH, IPR AND ETHICS IN BIOTECHNOLOGY
Code	18BTP21
	On completion of the course, students would be able to
CO-1	Be competent in accomplishing cutting edge research
CO-2	Analyze the effects of IPR on society.
CO-3	Strengthen IP so as to boost start ups
CO-4	Raise quality of product

Course Title	Core ANIMAL CELL CULTURE, ENVIRONMENTAL BIOTECHNOLOGY AND PHARMACEUTICAL BIOTECHNOLOGY PRACTICAL
Code	18BTP22
	On completion of the course, students would be able to
CO-1	Establish cell line and passage it.
CO-2	Perform cytotoxicity assay.
CO-3	Analyze waste water for designing a treatment plant
CO-4	Construction of a MFC for Sustainable energy
CO-5	Develop a drug formulation

Course Title	Generic Elective Course - Cluster- V FOOD, GENES AND DISEASES (FOR MSC BOTANY, ZOOLOGY AND CLINICAL NUTRITION)
Code	
	On completion of the course, students would be able to
CO-1	Comprehend the bioactive constituents required for health
CO-2	Interpret results of screening tests in identification of disease
CO-3	Associate relationship between food, genes and diseases
CO-4	Formulate personalized medicine



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Programme: MSc Electronic Media

Programme Outcomes

	On completion of the programme, the student will be able to
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

	On completion of the programme, the student will be able to
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

Course Title	Core COMMUNICATION THEORIES
Code	18EMP01
	On completion of the course, students would be able to
CO-1	Examine the broad range of questions that the models strive to answer
CO-2	Understand communication in terms of content and form, media and society, and audiences and effects
CO-3	Apply conceptual frameworks to analyze mass media and audience

Course Title	Core MEDIA LAWS AND ETHICS
Code	18EMP02
	On completion of the course, students would be able to
CO-1	Demonstrate ability to recognize legal and ethical issues in mass communication environment
CO-2	Understand current legal issues that affect the very essence of freedom of expression in media message
CO-3	Avoid legal violation and develop best practices in creating media content

Course Title	Core REPORTING, WRITING & EDITING FOR BROADCAST MEDIA
Code	18EMP03
	On completion of the course, students would be able to
CO-1	Analyze the concepts of news reporting and their role in the production of audio and video stories for broadcast medium
CO-2	Demonstrate the role of broadcast journalism industry in the current media context
CO-3	Evaluate techniques of equipment operation and skills in editing involved in the production of audio and video news reports

Course Title	Core AUDIO PRODUCTION
Code	18EMP04
	On completion of the course, students would be able to
CO-1	Demonstrate the basic principles in sound production and design
CO-2	Gain working knowledge in the field of sound recording, enhancing, digital audio editing and mixing
CO-3	Acquire foundation of audio production techniques for working in broadcasting and multi-media production

Course Title	Core PRACTICAL - I PHOTOGRAPHY
Code	18EMP05
	On completion of the course, students would be able to
CO-1	Demonstrate artistry by creating images that evoke an emotional response
CO-2	Select and use photographic equipment and technologies appropriate to the assigned task
CO-3	Apply the mechanics of exposure to control light and principles of composition to produce professional images

Course Title	Core PRACTICAL II DIGITAL DESIGN PRODUCTION
Code	18EMP06
	On completion of the course, students would be able to
CO-1	Structure visual information in both print and electronic media formats
CO-2	Acquire basic proficiency of design applications to produce advertising, branding and information design

Course Title	Discipline Specific Elective – I DIGITAL FILM MAKING
Code	18EMP07A
	On completion of the course, students would be able to
CO-1	Articulate the core concepts of digital production
CO-2	Employ narrative storytelling and character development for film writing

Course Title	Discipline Specific Elective – I INTRODUCTION TO INFORMATION AND COMMUNICATION TECHNOLOGIES
Code	18EMP07B
	On completion of the course, students would be able to
CO-1	Understand the functioning of the world wide web and perform effectively in the digital environment
CO-2	Recognize various concepts of ICT and new media
CO-3	Apply information and communication technology effectively in scientific research and education, health and medical technology, and e-governance

Course Title	Core MEDIA SOCIETY & CULTURE
Code	18EMP08
	On completion of the course, students would be able to
CO-1	Critically analyze mass media including new media in the shaping and development of culture and society
CO-2	Examine an issue or trend in the interstice of media, culture and society
CO-3	Understand the changes in media content, information dissemination and audience participation in digital realm

Course Title	Core TELEVISION AND VIDEO PRODUCTION
Code	18EMP09
	On completion of the course, students would be able to
CO-1	Effectively employ suitable lighting techniques in natural and artificial fields or studio setups
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

Course Title	Core PRACTICAL III - COMPOSITING & VISUAL EFFECTS
Code	18EMP10
	On completion of the course, students would be able to
CO-1	Create motion graphics to fit current industry trends and practices
CO-2	Acquire knowledge of industry standards and procedures for planning and creating virtual realities

Course Title	Core PRACTICAL - IV - ELECTRONIC MEDIA PRODUCTION
Code	18EMP11
	On completion of the course, students would be able to
CO-1	Gain electronic media production skills from conceptualization, execution to final program output

Course Title	Core FILM STUDIES
Code	18EMP12
	On completion of the course, students would be able to
CO-1	Appreciate and critically analyze cinematic visual styles and narrative conventions
CO-2	Employ storytelling craft in the creation of fiction and documentary
CO-3	Engage in the field of film studies research by providing a range of different perspectives on film form

Course Title	Core RESEARCH METHODS IN COMMUNICATION
Code	18EMP13
	On completion of the course, students would be able to
CO-1	Identify recent trends in mass media research
CO-2	Develop holistic approach to communication research
CO-3	Present a research proposal with appropriate approach and instrument for the study to be conducted the following semester

Course Title	Core IN PRACTICAL - V - MULTIMEDIA GRAPHICS & 3D ANIMATION
Code	18EMP14
	On completion of the course, students would be able to
CO-1	Acquire appropriate technical skills to create virtual reality and 3D elements

Course Title	Core PRACTICAL VI - AUDIO PRODUCTION
Code	18EMP15
	On completion of the course, students would be able to
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 effectively produce contents that are intellectual as well as creative

Course Title	Core PRACTICAL VII - FILM FESTIVAL
Code	18EMP16
	On completion of the course, students would be able to
CO-1	Become an active viewer of world cinema
CO-2	Explain how we engage with the film form and construct meaning

Course Title	Discipline Specific Elective– II INTEGRATED MARKETING COMMUNICATION
Code	18EMP18A
	On completion of the course, students would be able to
CO-1	Acquire knowledge in marketing management by integrating advertising, promotion, social media and public relations
CO-2	Develop effective marketing communications plan and tools and promotional ideas

Course Title	Discipline Specific Elective– II MEDIA MANAGEMENT
Code	18EMP18B
	On completion of the course, students would be able to
CO-1	Implement specific tools, practices and media management strategies
CO-2	Understand the unique characteristics of media management and media marketing
CO-3	Demonstrate organizational and economic structures of the major electronic media industries

Course Title	Core PROJECT 1: PORTFOLIO PRODUCTION
Code	18EMP19
	On completion of the course, students would be able to
CO-1	Design web portal to exhibit the works completed during the entire period of the programme

Course Title	Core PROJECT 2: DISSERTATION & VIVA VOCE
Code	18EMP20
	On completion of the course, students would be able to
CO-1	Identify recent trends in mass media research
CO-2	Develop holistic approach to communication research
CO-3	Present a research proposal with appropriate research approach and research instrument for the study they conduct next semester

Course Title	Core PROJECT 3: SHORT FILM (OR) DOCUMENTARY PRODUCTION
Code	18EMP21
	On completion of the course, students would be able to
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

Course Title	Core INTERNSHIP & VIVA
Code	18EMP22
	On completion of the course, students would be able to
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

Course Title	Generic Elective Course – Cluster – IV INTRODUCTION TO MULTIMEDIA
Code	18ELP19C/ 18CDP22C/ 19ENP15C
	On completion of the course, students would be able to
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



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Programme: MSc Clinical Nutrition and Dietetics

Programme Outcomes

Programme Outcomes	
	On completion of the programme, the student will be able to
PO-1	Become knowledgeable in the subject of clinical Nutrition and apply the principles of the same to the needs of the Patients/community
PO-2	Gain Analytical Skills in the field/area of Clinical Nutrition
PO-3	Understand and appreciate professional ethics, community living and Nation Building initiatives
PO-4	Proficient to integrate social responsibility into their professional practice and personal behavior
PO-5	Critically appraise and apply scientific evidence to professional practice to optimize outcome of professional services
PO-6	Commitment to keep abreast with current knowledge & practice guidelines relevant to nutrition and dietetics in order to enhance competency
PO-7	Work collaboratively as a member of a multidisciplinary healthcare team
PO-8	Effectively communicate with Health Care team/Patients/Community

Programme Specific Outcomes

Programme Specific Outcomes	
	On completion of the programme, the student will be able to
PSO-1	Apply the Knowledge of Nutrition Care Process and promotes a high standard of nutrition care to clients in the field of Clinical Nutrition
PSO-2	Solve the complex problems in the field of Clinical Nutrition with an understanding of the societal, legal and cultural impacts of the solution
PSO-3	Translate nutrition needs into food choices and plan menus for community settings taking into consideration psychosocial economic and life stages
PSO-4	Reflect upon his own performance and be a self-directed and life-long learner

Course Outcomes

Course Title	Core COMMUNITY AND PUBLIC HEALTH NUTRITION
Code	18CNP01
	On completion of the course, students would be able to
CO-1	Define role of community nutritionist and to describe health in terms of determinants and indicators of health
CO-2	Explain the nutritional problems and supplementary feeding programs for nutritional problems
CO-3	Discuss the dietary pattern and assess nutritional status of community
CO-4	Plan and execute nutrition education program
CO-5	Explain about the food distribution programs for emergency situations

Course Title	Core HUMAN PHYSIOLOGY
Code	18CNP02
	On completion of the course, students would be able to
CO-1	Discriminate normal and abnormal physiological functions of various systems
CO-2	Integrate the mechanism of various organ systems in regulating homeostasis
CO-3	Describe physiological responses for survival and communicate normal aspects of physiology with colleagues and public

Course Title	Core LIFE SPAN NUTRITION
Code	18CNP04
	On completion of the course, students would be able to
CO-1	Apply knowledge of the science of nutrition to human health across the lifespan
CO-2	Plan and implement nutrition intervention for prevention and management of geriatric health issues
CO-3	Explain the psychological and psychosocial problems affecting nutritional status of adolescents

Course Title	Core NUTRITION IN CLINICAL CARE –I
Code	18CNP05
	On completion of the course, students would be able to
CO-1	Explain the various steps in nutrition care process (NCP)
CO-2	Describe modifications of texture and consistency of normal diets: clear liquid diet, full liquid diet, dysphagia diet, bland diet
CO-3	Describe the medical nutrition therapy for the dietary management for individuals with various disease states (CVD, Diabetes Hepatobiliary, Pulmonary and musculoskeletal diseases of adolescents)
CO-4	Describe therapeutic diets in terms of definition of diets, purpose, effects and indications for use of diet, nutrient adequacy, possible adverse reactions & contraindications and menu plan
CO-5	Plan modified diets to meet nutritional needs for various diseases states

Course Title	Core COMMUNITY NUTRITION PRACTICAL
Code	18CNP06
	On completion of the course, students would be able to
CO-1	Conduct health assessments and develop nutrition interventions for individuals, groups and communities
CO-2	Use effective teaching strategies for individuals, groups, or through community education programming
CO-3	Demonstrate active participation, teamwork and contributions in group and professional settings

Course Title	Core NUTRITION IN CLINICAL CARE -1 PRACTICAL
Code	18CNP07
	On completion of the course, students would be able to
CO-1	Apply Nutrition care process for various Diseases and disorders
CO-2	Prepare menus for modifications of texture and consistency of normal diet, clear liquid diet, full liquid diet, dysphagia diet, bland diet
CO-3	Determining and calculation of nutrient prescriptions –including energy, protein, fats, CHO and micronutrients
CO-4	Menu planning and analysis of diets based on case studies
CO-5	Plan and prepare nutrition intervention for various disease conditions

Course Title	Core CLINICAL BIOCHEMISTRY
Code	18CNP08
	On completion of the course, students would be able to
CO-1	Understand metabolism of nutrients and functions tests
CO-2	Recall biochemical changes occurring in disorders.
CO-3	Explain clinical significance of metabolic cycles
CO-4	Relate the function tests with metabolism

Course Title	Core NUTRITION IN CLINICAL CARE –II
Code	18CNP09
	On completion of the course, students would be able to
CO-1	Explain benefits of early feeding in critical illness Able to describe indications for EN and TPN route of feeding for EN & TPN. Able to compare pro and cons of EN vs TPN. Able to explain how to manage problems such as refeeding syndrome and other complications in nutrition support
CO-2	Explain MNT for disorders of the lower and upper gastrointestinal problems, surgeries , renal disorders and cancers
CO-3	Describe the purpose, effects and indications for use of diet, nutrient adequacy, possible adverse reactions & contraindications and menu plan
CO-4	Describe the nutrition principles of paediatric dietetics: assessment, dietary requirements and feed supplementation and paediatric problems
CO-5	Describe how to incorporate nutrition care process for various disease condition in order to deliver effective nutrition care plans

Course Title	Core HEALTH CARE MANAGEMENT
Code	18CNP10
	On completion of the course, students would be able to
CO-1	Gain insight of both clinical and non clinical services in a Hospital
CO-2	Understand medical coding in hospital statistics
CO-3	Indulge in identifying effective patient care in enhancing the satisfaction level of patients in hospitals
CO-4	Provide attention to current issues in Health care

Course Title	Core CLINICAL BIOCHEMISTRY PRACTICAL
Code	18CNP11
	On completion of the course, students would be able to
CO-1	Follow Principles of biochemical tests
CO-2	Perform Clinical biochemistry tests following
CO-3	Interpret basic laboratory data

Course Title	Core NUTRITION IN CLINICAL CARE –II PRACTICAL
Code	18CNP12
	On completion of the course, students would be able to
CO-1	Apply Nutrition care process for various Diseases and disorders
CO-2	Prepare menus for modifications of texture and consistency of normal diet clear liquid diet, full liquid diet, dysphagia diet, bland diet
CO-3	Determine and calculate nutrient prescriptions –including energy, protein, fats, CHO and micronutrients
CO-4	Plan Menu and analysis of diets based on case studies
CO-5	Plan and prepare therapeutic menu plan for modified fats based on case studies such as obesity, hyperlipidemia and CVD
CO-6	Plan and prepare nutrition intervention for various disease conditions

Course Title	Discipline Specific Elective - I MEDICAL MICROBIOLOGY
Code	18CNP13A
	On completion of the course, students would be able to
CO-1	Identify and describe morphological and cultural characteristics of the pathogenic organisms
CO-2	Explain general and specific mechanism by which an infectious agent causes disease
CO-3	Recall the methods used to identify the pathogens
CO-4	Assess treatment strategies including proper use of antimicrobial agents
CO-5	Recognize interventions available to prevent diseases including infection control measures and vaccines

Course Title	Discipline Specific Elective - I FOOD MICROBIOLOGY
Code	18NCP13B
	On completion of the course, students would be able to
CO-1	Explain the interactions between microorganisms and the food spoilage
CO-2	Explain significance of microorganisms in food and nutrient degradation
CO-3	Describe the characteristics of food borne spoilage organisms and disease outbreaks in the community
CO-4	Role of microbial techniques in waste management and sanitation system

Course Title	Core NUTRACEUTICALS AND DRUG-NUTRIENT INTERACTIONS
Code	18CNP14
	On completion of the course, students would be able to
CO-1	Basic pharmacokinetic concepts of the absorption, distribution, metabolism and excretion of drugs
CO-2	Explore the type of drugs, mode of actions, dosage and side-effects for common diseases
CO-3	Identify the inter-relationship between food, disease state and nutritional status on effectiveness of drug therapy
CO-4	Plan appropriate nutrient intake and nutritional support to avert adverse drug nutrient interaction in specific disease

Course Title	Core FOOD SERVICE MANAGEMENT
Code	18CNP15
	On completion of the course, students would be able to
CO-1	Discuss the principles of food service management
CO-2	Discuss and apply the principles of menu planning, purchasing, receiving, storage, inventory, production, HACCP and cooking procedures of food service operation
CO-3	Apply the knowledge menu planning for quantity food production and prepare healthy menu according to customers need and satisfaction
CO-4	Demonstrate entrepreneurship and application of principles of food service management

Course Title	Core HOSPITAL POSTING
Code	18CNP17
	On completion of the course, students would be able to
CO-1	Assess nutritional status based on client history, food /nutrition history, anthropometric biochemical, clinical and dietary data
CO-2	Prepare nutrition care plan to achieve dietary management goals
CO-3	Understand basic counseling skills using appropriate theories or approach and strategies. Able to carry out development, modification and portion control of menu for normal and therapeutic diet
CO-4	Conduct community-based nutrition education for disease management and support nutrition / health promotion programs
CO-5	Identify nutritional risks in community groups for nutrition intervention or rehabilitation
CO-6	Plan and prepare nutrition intervention for various disease conditions

Course Title	Discipline Specific Elective - II HEALTH AND FITNESS
Code	18CNP18A
	On completion of the course, students would be able to
CO-1	Describe the principles of science of sports, exercise and fitness
CO-2	Identify the special nutritional requirements of athletes
CO-3	Explain energy balance, weight management and eating disorders in athletes
CO-4	Discuss the use of specific nutritional supplements in sports
CO-5	Plan modified diets for special group of athletes- children, teenage, pregnant woman and athletes with diabetes
CO-6	Deliver nutritional counseling to athletes involved in various sports activities

Course Title	Discipline Specific Elective - II INTEGUMENTARY NUTRITION
Code	18CNP18B
	On completion of the course, students would be able to
CO-1	Explain the causes of changes that occur in the skin from birth to old age
CO-2	Describe the distribution, growth, replacement, and changing nature of hair during the life span
CO-3	Understand the structure of nail
CO-4	Identify changes in colour of skin and hair used as clinical signs of disease state
CO-5	Screen nutritional deficiencies and prepare a diet plan based on disease condition

Course Title	Generic Elective Course – Cluster – V NUTRITION FOR LIFESTYLE DISORDER
Code	
	On completion of the course, students would be able to
CO-1	Interpret medical terminologies and medical abbreviations
CO-2	Have clear idea about foods to be restricted and included for disorders
CO-3	Understand nutrition therapy to various lifestyle disorders
CO-4	Appreciate role of nutrients, dietary sources and recommended intake levels

Course Title	Core HOSPITAL INTERNSHIP& PROJECT
Code	18CNP20
	On completion of the course, students would be able to
CO-1	Determine nutritional status based on client history, food /nutrition history, anthropometric, biochemical, clinical and dietary data
CO-2	Prepare nutrition care plan to achieve dietary management goals
CO-3	Apply client-centered counseling skills using appropriate theories or approach and strategies. Able to carry out development, modification and portion control of menu for normal and therapeutic diet
CO-4	Conduct community-based nutrition education for disease management and support nutrition / health
CO-5	Identify nutritional risks in community groups for nutrition intervention or rehabilitation
CO-6	Plan and prepare nutrition intervention for various disease conditions
CO-7	Acquire knowledge and skills to work as dietitian



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Programme: MSc Software Systems

Programme Outcomes

Programme Outcomes	
On completion of the programme, the student will be able to	
PO-1	Become knowledgeable in the subject of software systems and apply the principles of the same to the needs of the Employer / Institution /own Business or Enterprise
PO-2	Gain analytical skills in developing optimized software solution
PO-3	Understand and appreciate professional ethics, community living and Nation Building initiatives
PO-4	Identify, formulate and develop solutions tocomputational programs
PO-5	Think critically in evaluating the design choices made and tradeoffs considered when developing software-based systems
PO-6	Analyze, design, verify, validate, implement, apply and maintain software systems
PO-7	A recognition of need for, and an ability to engage in lifelong learning
PO-8	Facilitate to pursue research

Programme Specific Outcomes

Programme Specific Outcomes	
On completion of the programme, the student will be able to	
PSO-1	Apply the knowledge of computational algorithms, software techniques in the domain
PSO-2	Solve the complex problems in the field of software with an understanding of the societal, legal and cultural impacts of the solution
PSO-3	Apply design and development principles in the construction of software systems of varying complexity
PSO-4	Form a part of member in a team with right attitudes

Course Outcomes

Course Title	Core PROGRAMMING INC
Code	18SSP01
	On completion of the course, students would be able to
CO-1	Understand the basic structure of C programming, declaration and usage of variables
CO-2	Trace the given C program manually
CO-3	Implement programs with pointers and arrays
CO-4	Write C program for simple applications using structures and files
CO-5	Manipulate text files with file handling methods

Course Title	Core PROGRAMMING IN PYTHON
Code	18SSP02
	On completion of the course, students would be able to
CO-1	Understand principles of Python
CO-2	Understand object oriented programming
CO-3	Understand how Python can be used for application development

Course Title	Core LAB - I - C PROGRAMMING LAB
Code	18SSP05
	On completion of the course, students would be able to
CO-1	Understand the declaration and usage of variable
CO-2	Write a C program for a given algorithm
CO-3	Trace the given C program manually
CO-4	Implement Programs with pointers and arrays
CO-5	Create simple applications using structures and files

Course Title	Core LAB - II - PROGRAMMING IN PYTHONLAB
Code	18SSP06
	On completion of the course, students would be able to
CO-1	Understand the concepts of object-oriented programming as used in Python: classes, subclasses, inheritance, and overriding
CO-2	Able to implement the concept list, tuples and dictionary
CO-3	Read data from a text file using Python

Course Title	Core LAB - III - MS-EXCELLAB
Code	18SSP07
	On completion of the course, students would be able to
CO-1	Perform mathematical operations
CO-2	Generate reports
CO-3	Create pivot table
CO-4	Create charts

Course Title	Core OBJECT ORIENTED PROGRAMMING USINGC++
Code	18SSP08
	On completion of the course, students would be able to
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	Implement C++ program for any given problem
CO-4	Apply concepts of operator overloading, constructors and destructors
CO-5	Apply object oriented concepts in real world programs

Course Title	Core DATASTRUCTURES
Code	18SSP09
	On completion of the course, students would be able to
CO-1	Analyze algorithms and algorithm correctness
CO-2	Summarize searching and sorting techniques
CO-3	Implement stack, queue and linked list operation
CO-4	Familiarize and differentiate tree and graphs concepts
CO-5	Choose appropriate data structure as applied to specified problem definition

Course Title	Core FUNDAMENTALS OF DIGITAL COMPUTERS AND ARCHITECTURE
Code	18SSP10
	On completion of the course, students would be able to
CO-1	Design two-level logic functions with AND, OR, NAND, NOR and XOR gates with minimum number of gate delays or literals
CO-2	Simplify the Boolean algebra using K-maps
CO-3	Analyze the operation of sequential circuits built with various flip-flops
CO-4	Use K-maps to minimize and optimize two-level logic functions up to 5 variables
CO-5	Know the basic knowledge of assembly language, instruction sets and their format

Course Title	Core LAB IV -OBJECT ORIENTED PROGRAMMING USING C++LAB
Code	18SSP12
	On completion of the course, students would be able to
CO-1	Identify the appropriate function for solving real world problems
CO-2	Program using C++ features (inheritance, overloading)
CO-3	Develop complex application

Course Title	Core LAB V - DATA STRUCTURES USING CLAB
Code	18SSP13
	On completion of the course, students would be able to
CO-1	Identify the appropriate data structure for given problem
CO-2	Develop practical knowledge on the applications of data structures
CO-3	Implement the Stack ADT using both array based and linked-list based data structures
CO-4	Implement the Queue ADT using both array based circular queue and linked-list based implementations
CO-5	Implement binary search trees

Course Title	Core LAB VI – INTERACTIVE MEDIA DESIGNING LAB
Code	18SSP14
	On completion of the course, students would be able to
CO-1	Make games by using multimedia concepts
CO-2	Create websites what they want from any multimedia software tools
CO-3	Create own successful static websites

Course Title	Generic Elective Course – Cluster – VI ENTERPRISE RESOURCE PLANNING
Code	
	On completion of the course, students would be able to
CO-1	Enhanced Evaluation of ERP systems, Business Analytics, Future trends in ERP systems
CO-2	Understand the basic concepts of ERP systems for manufacturing or service companies, and the related technologies like BPR, MIS, DSS, supply chain concepts
CO-3	Understands about ERP implementation life cycle and their factors responsible for the success of implementation
CO-4	In-depth knowledge of major ERP components, including vendors, consultants and their roles
CO-5	Acquire knowledge of typical ERP systems, and the advantages and limitations of implementing such systems

Course Title	Core PROGRAMMING IN JAVA
Code	19SSP15
	On completion of the course, students would be able to
CO-1	Gain Knowledge of the structure and model of the Java programming language
CO-2	Use the Java programming language for various programming technologies
CO-3	Develop software in the Java programming language
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

Course Title	Core RELATIONAL DATABASE MANAGEMENT SYSTEM
Code	19SSP16
	On completion of the course, students would be able to
CO-1	Implement the database structure
CO-2	Trace the given schema clearly
CO-3	Implement programs with stored functions, procedures and triggers
CO-4	Demonstrate an understanding of the relational data model
CO-5	Formulate, using SQL, solutions to a broad range of query and data update problems

Course Title	Core SOFTWARE ENGINEERING
Code	19SSP17
	On completion of the course, students would be able to
CO-1	Work as an individual and as part of a multidisciplinary team to develop and deliver quality software
CO-2	Demonstrate an understanding of and apply current theories, models, and techniques that provide a basis for the software lifecycle
CO-3	Demonstrate an ability to use the techniques and tools necessary for engineering practice
CO-4	Use knowledge, techniques, skills and modern tools necessary for software engineering practice
CO-5	Analyze, design and manage the development of a computing-based system, component or process to meet desired needs within realistic constraints in one or more application domains

Course Title	Core LAB VII -JAVA PROGRAMMING LAB
Code	19SSP20
	On completion of the course, students would be able to
CO-1	Understand how to design, implement, test, debug, and document programs
CO-2	Understand the importance of Classes & objects along with constructors, Arrays and Vectors
CO-3	Discuss the principles of inheritance, interface and packages
CO-4	Understand importance of Multi-threading & different exception handling mechanisms
CO-5	Develop graphical user interfaces in Java using applet and AWT that respond to different user events

Course Title	Core Lab VIII - RDBMS LAB
Code	19SSP21
	On completion of the course, students would be able to
CO-1	Design and implement a database schema for a given problem-domain
CO-2	Create and maintain tables using PL/SQL
CO-3	Populate and query a database
CO-4	Prepare reports

Course Title	Core USER INTERFACE DESIGN
Code	19SSP22
	On completion of the course, students would be able to
CO-1	Successfully design Interactive web pages
CO-2	Design user-friendly web pages for real world applications
CO-3	Use knowledge of HTML and CSS code and an HTML editor to create personal and/or business websites
CO-4	Become familiar with the JavaScript language
CO-5	Manipulate XML Documents programmatically using DOM and JavaScript

Course Title	Core OPERATING SYSTEMS
Code	19SSP23
	On completion of the course, students would be able to
CO-1	Understand the basic structure of Operating Systems
CO-2	Analyze various scheduling algorithms
CO-3	Understand Prevention & Avoidance algorithms
CO-4	Compare various memory management concepts
CO-5	Understand File system implementation

Course Title	Core AGILE SOFTWARE DEVELOPMENT
Code	19SSP24
	On completion of the course, students would be able to
CO-1	Compare agile software development to traditional software development models
CO-2	Describe several agile methods for software development
CO-3	Apply agile practices such as standup meetings, and pair programming to their software engineering practices
CO-4	Earn how agile methods scale to large and distributed projects, including the role of systems engineering
CO-5	Create and critique user stories for system requirements

Course Title	Core Lab IX - USER INTERFACE DESIGN AND CASE TOOLS LAB
Code	19SSP27
	On completion of the course, students would be able to
CO-1	Develop the personal/business related web sites with images, forms
CO-2	Apply JavaScript functions, events in an HTML document
CO-3	Use style sheets effectively
CO-4	Create XML documents for various purposes
CO-5	Construct and evaluate hybrid CASE tools by integrating existing tools

Course Title	Generic Elective Course – Cluster – VI SOFTWARE PROJECT MANAGEMENT
Code	
	On completion of the course, students would be able to
CO-1	Understand the basics of Software Project Management
CO-2	Analyze estimation techniques
CO-3	Risk management

Course Title	Core DATA COMMUNICATIONS AND NETWORKING
Code	19SSP29
	On completion of the course, students would be able to
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	Discuss 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	Improve the employability in network administration

Course Title	Core R PROGRAMMING
Code	19SSP30
	On completion of the course, students would be able to
CO-1	Solve the problems using computational methods and techniques
CO-2	Design to use R to solve statistical problems
CO-3	Design a program using R Objects for the applications
CO-4	Implement the applications for regression models
CO-5	Improve the career opportunities as data analyst by comprehending the dataset using various plots in R

Course Title	Core SOFTWARE QUALITY ASSURANCE AND SOFTWARE TESTING
Code	19SSP31
	On completion of the course, students would be able to
CO-1	Know the software quality measures and models
CO-2	Use testing metrics for project development
CO-3	Apply various testing techniques and tools in test life cycle
CO-4	Perform cost evaluation and software assessment techniques
CO-5	Provide the knowledge to become a Software tester with Quality Assurance Techniques

Course Title	Discipline Specific Elective – I CLOUD COMPUTING
Code	19SSP32A
	On completion of the course, students would be able to
CO-1	Define Cloud Computing and memorize the different Cloud service and deployment models
CO-2	Describe importance of virtualization along with their technologies
CO-3	Use and Examine different cloud computing services and collaborations in their career opportunities
CO-4	Analyze the components of open stack & Google Cloud platform and understand Mobile Cloud Computing
CO-5	Describe the key components of Amazon web Service

Course Title	Core DESIGN AND ANALYSIS OF ALGORITHMS
Code	19SSP32B
	On completion of the course, students would be able to
CO-1	Develop the skill in analysis to solve any problem
CO-2	Propose the correct algorithmic method to solve any problem
CO-3	Choose appropriate design techniques for solving problems
CO-4	Understand how the choice of data structures and the algorithm design methods impact the performance of programs
CO-5	Sound algorithmic knowledge helps in better employment

Course Title	Core LAB-XI NETWORKSLAB
Code	19SSP33
	On completion of the course, students would be able to
CO-1	Execute and evaluate network administration commands and demonstrate their use in different network scenarios
CO-2	Demonstrate the installation and configuration of network Simulator in their career
CO-3	Demonstrate and measure different network scenarios and their Performance behavior
CO-4	Analyze the contents the packet contents of different protocols
CO-5	Implement the socket programming for client server architecture

Course Title	Core LAB-XII R PROGRAMMINGLAB
Code	19SSP34
	On completion of the course, students would be able to
CO-1	Solve the problems using computational methods
CO-2	Design a program using R Objects to solve statistical problems
CO-3	Comprehend the dataset using various plots in R
CO-4	Implement the various statistical tools in their data analyst role

Course Title	Core ADVANCED JAVA
Code	19SSP36
	On completion of the course, students would be able to
CO-1	Knowledge of the structure and model of the Advanced Java programming language
CO-2	Develop software using MVC architecture
CO-3	Propose the use JSP, Beans and servlets by implementing them to solve the given problem
CO-4	Choose an engineering approach to solving problems, starting from the acquired knowledge of session and cookies
CO-5	Design a real time web application in their employment opportunists

Course Title	Core DYNAMIC PROGRAMMING USING PHP ANDBOOTSTRAP
Code	19SSP37
	On completion of the course, students would be able to
CO-1	Code PHP scripts to handle HTML forms
CO-2	Write regular expressions including modifiers, operators, and metacharacters
CO-3	Analyze and solve various database tasks using the PHP language
CO-4	Solve common Web application tasks by writing PHP programs
CO-5	Create dynamic websites using PHP, Bootstrap after their graduation

Course Title	Core DATA WAREHOUSING AND MINING
Code	19SSP38
	On completion of the course, students would be able to
CO-1	Understand the various stages during data warehousing and Data mining
CO-2	Analyze the issues and techniques in data preprocessing
CO-3	Understand the need to preprocess data before data mining
CO-4	Implement classification and clustering techniques for predictive analysis
CO-5	Demonstrate the mining techniques in all types of systems during their employment

Course Title	Core SOFTWARE PATTERNS AND ARCHITECTURE
Code	19SSP39
	On completion of the course, students would be able to
CO-1	Develop Object Oriented Systems using Design Patterns
CO-2	Design and giving Architectural solutions to Real Time problems by the usage of Architectural Patterns
CO-3	Work with Refactoring open source Projects using Refactoring Tools
CO-4	Develop simple Refactoring Tools
CO-5	Adopt new Refactoring Techniques which makes the Implementation highly usable

Course Title	Discipline Specific Elective – II CRYPTOGRAPHY
Code	19SSP40A
	On completion of the course, students would be able to
CO-1	Analyze the vulnerabilities in any computing system and hence be able to design a security solution
CO-2	Identify the security issues as network administrator and resolve it
CO-3	Evaluate security mechanisms using rigorous approaches, including theoretical
CO-4	Compare and Contrast different Intruders and viruses
CO-5	Comprehend Firewall and its application

Course Title	Discipline Specific Elective – II SOFT COMPUTING
Code	19SSP40B
	On completion of the course, students would be able to
CO-1	Implement various techniques as Network Architect
CO-2	Tune the Back propagation Algorithm according to the Network
CO-3	Implement various Possible Operations in both Crisp as well as Fuzzy Sets
CO-4	Implement the Genetic Algorithms by the studied principle and to ensure whether all benefits of Encoding have been achieved
CO-5	Ensure the achievability of the Role of Bitwise Operators and check whether the step by step Process has been Implemented in the Generational Cycle

Course Title	Core Lab-XIII ADVANCED JAVAPROGRAMMING LAB
Code	19SSP41
	On completion of the course, students would be able to
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 like code designer
CO-3	Make a reusable software component, using Java Bean

Course Title	Core LAB- XIV DYNAMIC PROGRAMMING USING PHP AND BOOTSTRAP LAB
Code	19SSP42
	On completion of the course, students would be able to
CO-1	Design and develop dynamic web pages with good aesthetic sense of designing and latest technical know-how's
CO-2	Have a good understanding of Web Application Terminologies, Internet Tools other web services
CO-3	Learn to link and publish web sites in their working environment
CO-4	Use cascading style sheets to design web pages
CO-5	Help the students to develop applications with different technologies and database driven applications

Course Title	Core ASP.NET WITHC#
Code	19SSP44
	On completion of the course, students would be able to
CO-1	Design web forms using web and Server controls
CO-2	Create web applications for real time scenario as website designer
CO-3	Develop web pages with validation controls efficiently
CO-4	Enhance the employability in Programming in software side
CO-5	Enhance the performance of the applications with database connectivity

Course Title	Core ADVANCED SYSTEM PROGRAMMING
Code	19SSP45
	On completion of the course, students would be able to
CO-1	Choose between different Linux distributions according to their project
CO-2	Understand the working of different editors and their commands and usages
CO-3	Increase the job opportunities as LinuxAdministrator
CO-4	Comprehend the Linux shell and Scriptingcommands
CO-5	Develop an real time application in Linux

Course Title	Discipline Specific Elective – III MACHINELEARNING
Code	19SSP46A
	On completion of the course, students would be able to
CO-1	Understand the basic concepts and techniques of Machine Learning
CO-2	Characterize machine learning algorithms as supervised, semi- supervised, and unsupervised
CO-3	Understand complexity of Machine Learning algorithms and their limitations
CO-4	Understand modern notions in data analysis oriented computing
CO-5	Give opportunity in the field of scientist

Course Title	Discipline Specific Elective – III BIG DATAANALYTICS
Code	19SSP46B
	On completion of the course, students would be able to
CO-1	Explain the motivation for big data systems and identify the main sources of Big Data in the real world
CO-2	Demonstrate an ability to use frameworks like Hadoop, to efficiently store retrieve and process Big Data forAnalytics
CO-3	Implement several Data Intensive tasks using the Map Reduce paradigm
CO-4	Increases the opening as Big Data Analyst
CO-5	Comprehend Sqoop and Zoo keeper in real time scenario

Course Title	Core LAB -XV ASP.NET with C# Lab
Code	19SSP48
	On completion of the course, students would be able to
CO-1	Design web forms using variouscontrols
CO-2	Create web pages with securityfeatures
CO-3	Increases the opportunity as a developer in Software Industry

Course Title	Core LAB - XVI ADVANCED SYSTEM PROGRAMMING LAB
Code	19SSP49
	On completion of the course, students would be able to
CO-1	Work on various commands of Linux
CO-2	Know how to program various algorithms using shell Programming
CO-3	Work as a Linux Administrator
CO-4	Create files related to graphic application

Course Title	Core MODERNDATABASES
Code	19SSP50
	On completion of the course, students would be able to
CO-1	Understand sources, types of data and databases
CO-2	Describe how NoSQL databases differ from relational databases from a theoretical perspective
CO-3	Select a particular NoSQL database for specific use cases
CO-4	Know about Cassandra data model and key features
CO-5	Increase competency as a Database Analyst

Course Title	Core ARTIFICIAL INTELLIGENCE AND EXPERT SYSTEMS
Code	19SSP51
	On completion of the course, students would be able to
CO-1	Apply the principles AI in solutions for problem solving and Inference
CO-2	Differentiate the knowledge, reasoning, acquisition and perception
CO-3	Demonstrate the search techniques and knowledge representation
CO-4	Investigate the rules for Knowledge acquisition and reasoning
CO-5	Work as a Robotic Scientist

Course Title	Core MOBILE APPLICATION DEVELOPMENT
Code	19SSP52
	On completion of the course, students would be able to
CO-1	Develop Android Applications with various Layout using Emulator
CO-2	Deploy their own applications using various UI controls
CO-3	Design the forms using SQLite to store and retrieve data from tables
CO-4	Create Multiscreen applications with alert dialogs and Dialog Listener
CO-5	Enhance the career opportunities as an Android developer

Course Title	Discipline Specific Elective – IV ADVANCED DATASTRUCTURES
Code	19SSP53A
	On completion of the course, students would be able to
CO-1	Able to understand various algorithm design and implementation
CO-2	Understand the necessary mathematical abstraction to solve problems
CO-3	Choose appropriate advanced data structure for given problem
CO-4	Apply the dynamic programming technique to solve the applications
CO-5	Increases the opportunities as a good Programmer

Course Title	Discipline Specific Elective – IV PRINCIPLES OF COMPILER DESIGN
Code	19SSP53B
	On completion of the course, students would be able to
CO-1	Convert any instruction of a program to convert from source language to target language and should be recognize what happens at each and every phase of a compiler
CO-2	Understand the different types of parsing techniques and should be in a position to solve the problem
CO-3	Identify the similarities and differences among various parsing techniques and grammar transformation techniques
CO-4	Design and implement as a developer of operating system
CO-5	Analyze the program and minimize the code by using optimizing techniques which helps in reducing the no. of instructions in a program and also utilization of registers in an effective way

Course Title	Core LAB XVII MODERN DATABASESLAB
Code	19SSP54
	On completion of the course, students would be able to
CO-1	Implementqueries in NoSQL database management systems
CO-2	Differentiate SQL databases andNoSQLinpractical perspective.
CO-3	Excels as a NoSQL Database Analyst

Course Title	Core LAB XVIII MOBILE APPLICATION DEVELOPMENT LAB
Code	19SSP55
	On completion of the course, students would be able to
CO-1	Excels as an Android Application developer
CO-2	Develop a working knowledge of the custom UI elements and positioning
CO-3	Understand various layouts, event handling and screen Orientation



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Programme: MSc Botony

Programme Outcomes

	On completion of the programme, the student will be able to
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	Knock into the interdisciplinary nature of science
PO-3	Understand defining characteristics of the process of Science
PO-4	Understand the peculiar features of different plant forms
PO-5	Practice the expertise of various scientific methods
PO-6	Engage in research projects

Programme Specific Outcomes

	On completion of the programme, the student will be able to
PSO-1	Apply the knowledge of Botany in the domain of Plant Identification
PSO-2	Solve the complex problems in the field of Plant Systematics with an understanding of the societal, legal and cultural impacts of the solution
PSO-3	Emphasize on common reckonable approaches in Plant Science

Course Outcomes

Course Title	Core PLANT DIVERSITY - I
Code	18BOP01
	On completion of the course, students would be able to
CO-1	Comprehend the essential features of lower plant forms
CO-2	Acquire relevant knowledge in Algae, Fungi, Lichens and Bryophytes
CO-3	Apprehend the ecological role and economic importance of Cryptogams

Course Title	Core PLANT DIVERSITY – II
Code	18BOP02
	On completion of the course, students would be able to
CO-1	Decipher the Classification and Identification of various forms of Pteridophytes
CO-2	Apprehend the features and reproductive adaptations of Gymnosperms
CO-3	Learned about the headway of life on Earth by Paleobotany

Course Title	Core APPLIED MICROBIOLOGY
Code	18BOP03
	On completion of the course, students would be able to
CO-1	Understood the concepts in Microbiology
CO-2	Analyzed the effect of microorganisms on global environment
CO-3	Have a thorough knowledge on plant degradation mechanisms

Course Title	Core FOREST RESOURCE MANAGEMENT
Code	18BOP04
	On completion of the course, students would be able to
CO-1	Recollect the importance of forests
CO-2	Understand various forests types and to impart conservation strategy
CO-3	Review the laws for the protection of forest and its resources

Course Title	Core CYTOLOGY, GENETICS AND PLANT BREEDING
Code	18BOP05
	On completion of the course, students would be able to
CO-1	Understood the cellular components and their functions
CO-2	Acquired knowledge on the principles of Mendelian inheritance and Gene interactions
CO-3	Analyzed genetic data using statistical procedures
CO-4	Gained knowledge in the techniques of Plant Breeding

Course Title	Core ADVANCED MOLECULAR BIOLOGY
Code	18BOP06
	On completion of the course, students would be able to
CO-1	Acquired advance knowledge in proteomics
CO-2	Explicate the function, replication and evaluation of genomes
CO-3	Gained knowledge in gene regulatory systems

Course Title	Core ANATOMY AND EMBRYOLOGY
Code	18BOP07
	On completion of the course, students would be able to
CO-1	Interpret the crucial pattern of plant growth from meristems
CO-2	Understood the process of growth
CO-3	Tap into the molecular aspects of plant embryogenesis

Course Title	Discipline Specific Elective - I CONCEPTS OF BIOINFORMATICS
Code	18BOP08A
	On completion of the course, students would be able to
CO-1	Acquired knowledge on the development of Bioinformatics
CO-2	Understood the data storage in biological databases by exploring the information
CO-3	Acquired knowledge on drug discovery process

Course Title	Discipline Specific Elective - I HORTICULTURE AND PLANTATION CROPS
Code	18BOP08B
	On completion of the course, students would be able to
CO-1	Gained knowledge in various professions of Floriculture and Gardening
CO-2	Acquired knowledge in fruit crops
CO-3	Learned the cultivation techniques of plantation crops

Course Title	Core BOTANY PRACTICAL– I
Code	18BOP09
	On completion of the course, students would be able to
CO-1	Become confident in identifying diversity of lower plant forms
CO-2	Gained adequate knowledge on morphological, anatomical and reproductive characteristics of Cryptogams
CO-3	Obtained thorough knowledge on microbial isolation and culture techniques

Course Title	Core BOTANY PRACTICAL II
Code	18BOP10
	On completion of the course, students would be able to
CO-1	Developed specific competencies in hybridization techniques
CO-2	Gained insight into the molecular mechanism of biology
CO-3	Understood the internal features of plant cells, tissues, and organs
CO-4	Acquired knowledge in preparation of permanent slides

Course Title	Core TAXONOMY AND ECONOMIC BOTANY
Code	18BOP12
	On completion of the course, students would be able to
CO-1	Developed knowledge on taxonomic diversity and useful plants
CO-2	Acquired skill in plant identification
CO-3	Practice the expertise techniques involved in Herbarium preparation
CO-4	Understood the economic uses of plants in folklore medicine

Course Title	Core BIOTECHNOLOGY AND GENETIC ENGINEERING
Code	18BOP13
	On completion of the course, students would be able to
CO-1	Gained adequate understanding of the principles and practices of Biotechnology
CO-2	Applied the theoretical knowledge and approaches in applied sciences
CO-3	Acquired knowledge in a defined skill set of Biotechnology protocols

Course Title	Core RESEARCH METHODOLOGY
Code	18BOP14
	On completion of the course, students would be able to
CO-1	Identified the process of designing a research study
CO-2	Familiarized with components of a research study
CO-3	Critically assessed innovations in research methods

Course Title	Discipline Specific Elective – II PLANT TISSUE CULTURE
Code	18BOP15A
	On completion of the course, students would be able to
CO-1	Performed advance techniques in plant tissue culture
CO-2	Acquired knowledge on components of tissue culture media
CO-3	Distinguished various call lines

Course Title	Discipline Specific Elective – II PLANT PATHOLOGY
Code	18BOP15B
	On completion of the course, students would be able to
CO-1	Have an overview of the discipline of Plant Pathology
CO-2	Describe the interactions of the host and pathogen
CO-3	Recognize plant diseases and recommend control strategies

Course Title	Core ECOLOGICAL CONCEPTS
Code	18BOP17
	On completion of the course, students would be able to
CO-1	Understood the major Ecological concepts
CO-2	Learned critical thinking and scientific skills
CO-3	Effectively communicate pollution related problems

Course Title	Core PLANT PHYSIOLOGY AND BIOCHEMISTRY
Code	18BOP18
	On completion of the course, students would be able to
CO-1	Possessed significant knowledge on physiology of plants
CO-2	Acquired knowledge on the crucial processes of plant physiology
CO-3	Acquainted with methodologies employed in the field of Biochemistry

Course Title	Core BOTANY PRACTICAL III
Code	18BOP19
	On completion of the course, students would be able to
CO-1	Assigned the scientific names
CO-2	Learned to set up a plant tissue culture laboratory
CO-3	Developed practical insight in Molecular Genetics
CO-4	Investigated tissue culture protocol for rare plants

Course Title	Core BOTANY PRACTICALS IV
Code	18BOP20
	On completion of the course, students would be able to
CO-1	Developed knowledge about the geographical distribution and abundance of organisms
CO-2	Familiarized with structural adaptations and functional adjustment to physical environment
CO-3	Gained proficiency in physiological techniques
CO-4	Applied scientific methods to the processes of experimentation

Course Title	Generic Elective Course – Cluster V FOOD AND MEDICINAL RESOURCES
Code	
	On completion of the course, students would be able to
CO-1	Understood the significance of indigenous food crops conservation
CO-2	Demonstrated theoretical skills in assessing the quality of herbal drugs
CO-3	Addressed potential safety concerns in herb-drug interactions



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Programme: MSc Zoology

Programme Outcomes

	On completion of the programme, the student will be able to
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. Understand the importance of biodiversity.
PO-7	Inculcate to pursue higher studies such as research and development for the benefit of mankind and animals itself.

Programme Specific Outcomes

	On completion of the programme, the student will be able to
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

Course Title	Core ANIMAL PHYLOGENY AND PALAEOLOGY
Code	18ZOP01
	On completion of the course, students would be able to
CO-1	Have the knowledge of the systematic position, origin and evolutionary principles of Invertebrates and Chordates

Course Title	Core MOLECULAR GENETICS
Code	18ZOP02
	On completion of the course, students would be able to
CO-1	Have gained knowledge about the functioning of cell at molecular level
CO-2	Understood the secrets of biomolecules

Course Title	Core FISHERY BIOLOGY
Code	18ZOP03
	On completion of the course, students would be able to
CO-1	Understood the morphology, classification and identification of fishes and the fisheries and fishery resources of India
CO-2	Understood about the biology of fishes, management of fishery resources and their sustainable utilization

Course Title	Core ENVIRONMENTAL BIOLOGY
Code	18ZOP04
	On completion of the course, students would be able to
CO-1	Have gathered up-to-date knowledge on environmental conservation and management

Course Title	Core EXPERIMENTAL EMBRYOLOGY
Code	18ZOP05
	On completion of the course, students would be able to
CO-1	Have gained the current knowledge pertaining to the development of animal embryos of diverse taxonomic groups through experimental analyses based on modern biological tools

Course Title	Core ANIMAL PHYSIOLOGY AND BIOCHEMISTRY
Code	18ZOP06
	On completion of the course, students would be able to
CO-1	Have derived knowledge of the functions of animals, organs and their behavior and understanding of their nutrition, respiration, circulation, excretion and physico-chemical coordination
CO-2	Comprehend the chemical constituents of food stuffs, the energy changes associated with these transformation and hormonal regulation

Course Title	Core MICROBIOLOGY
Code	18ZOP07
	On completion of the course, students would be able to
CO-1	Have acquired a basic knowledge of the microbes in general and of the environmental, medical and industrial important microbes in particular in order to have an integrated approach in biology
CO-2	Know the basics of sterilization and culture methods

Course Title	Discipline Specific Elective Course - I POULTRY FARMING
Code	18ZOP08A
	On completion of the course, students would be able to
CO-1	Have acquired knowledge of basic principles of the subject
CO-2	Realize the economic importance of the subject and to utilize the knowledge for the day-to-day life

Course Title	Discipline Specific Elective Course - I ORNAMENTAL FISH BREEDING
Code	18ZOP08B
	On completion of the course, students would be able to
CO-1	Have gained knowledge about Ornamental fishes
CO-2	Have developed skill in rearing, breeding and marketing of freshwater ornamental fishes

Course Title	Core ZOOLOGY PRACTICAL -I
Code	18ZOP09
	On completion of the course, students would be able to
CO-1	Have gained the knowledge to identify and classify the specimens
CO-2	Have understood the role of marine, Inland and ornamental fishes
CO-3	Have gained the knowledge on morphology and classification of fishes

Course Title	Core ZOOLOGY PRACTICAL -II
Code	18ZOP10
	On completion of the course, students would be able to
CO-1	Have acquired the knowledge on developmental stages of chick embryo
CO-2	Have understood the physiology of earthworm and fish
CO-3	Have understood the various biochemical components and enzyme activities

Course Title	Core IMMUNOLOGY
Code	18ZOP11
	On completion of the course, students would be able to
CO-1	Have understood the Structural and functional basis of immunoglobulins, the mechanism, mediators, detection and application of antigen-reaction in the immune system

Course Title	Core BIOTECHNOLOGY
Code	18ZOP12
	On completion of the course, students would be able to
CO-1	Have familiarized the use of the data and techniques of engineering and technology in biology for the study of living organisms, or derivatives of thereof, to make or modify products or processes for specific use
CO-2	Find solution to problems concerning human activities including agriculture, medical treatment, industry and environment

Course Title	Core ENDOCRINOLOGY
Code	18ZOP13
	On completion of the course, students would be able to
CO-1	Have learnt the objectives and scope of comparative endocrinology, anatomy, morphology and histology of endocrine tissues of vertebrates, crustacean and insect endocrine organs and their functions

Course Title	Discipline Specific Elective Course – II AGRICULTURAL ENTOMOLOGY
Code	18ZOP14A
	On completion of the course, students would be able to
CO-1	Have acquired knowledge of Agricultural pests
CO-2	Have gained knowledge of the silkworm rearing techniques

Course Title	Discipline Specific Elective Course – II MEDICAL PARASITOLOGY
Code	18ZOP14B
	On completion of the course, students would be able to
CO-1	Have acquired the knowledge about various parasitic groups
CO-2	Have understood the mode of infestation, prevalence and diagnostic techniques on parasitology

Course Title	Core ZOOLOGY PRACTICAL – III
Code	18ZOP15
	On completion of the course, students would be able to
CO-1	Have acquired knowledge of the microbes and sterilization techniques
CO-2	Have gained knowledge on various biotechnological methods
CO-3	Have gained the various techniques of propagating of mulberry and diseases of mulberry plants and silkworms

Course Title	Core APICULTURE
Code	18ZOP17
	On completion of the course, students would be able to
CO-1	Have acquired knowledge about the colonial and social life of Honeybee
CO-2	Have developed skill for self-employment in Bee-Keeping and Honey extraction

Course Title	Core BIOSTATISTICS AND RESEARCH METHODOLOGY
Code	18ZOP18
	On completion of the course, students would be able to
CO-1	Have understood the basic concepts of Biostatistics in order to analyze and solve biological problems in more systematic way
CO-2	Have imbibed the principles of physics involved in the modern physical instruments for the exploration of knowledge in biology

Course Title	Core PROJECT AND VIVA
Code	18ZOP19
	On completion of the course, students would be able to
CO-1	Have been promoted to original thinking, insemination of knowledge, modulation and innovation thought, as an exercise in order to transform the young minds to expanding horizon of their chosen of knowledge and then in to knowledge generators

Course Title	Generic Elective Course – Cluster - V SILKWORM REARING
Code	
	On completion of the course, students would be able to
CO-1	Have acquired knowledge about the biology of silkworm and the various rearing techniques
CO-2	Understand the various techniques of propagating mulberry plants and to know about the various diseases of mulberry and silkworms



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Programme: MCom Commerce

Programme Outcomes

	On completion of the programme, the student will be able to
PO-1	Become knowledgeable in the field of commerce and apply the principles as per the needs of the employer and own business enterprise
PO-2	Gain analytical skill 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	Pursue research in the chosen field of marketing, finance and HR
PO-5	Acquire in depth core competence and qualify for employment in wide range of occupations

Programme Specific Outcomes

	On completion of the programme, the student will be able to
PSO-1	Apply the knowledge of commerce in the domain of business environment
PSO-2	Solve the complex problem in the field of commerce with an understanding of societal, legal and cultural impacts of the Accounting and Taxation procedures
PSO-3	Significance for research in various commerce domains
PSO-4	Form a part of member in a team with right attitude

Course Outcomes

Course Title	Core BUSINESS ENVIRONMENT
Code	18COP01
	On completion of the course, students would be able to
CO-1	Relate the impact of environmental factors on business
CO-2	Apply the knowledge in the start up of new enterprises
CO-3	Identify the different initiatives and regulations of Government which facilitates the business
CO-4	Demonstrate the social and cultural practices in their business
CO-5	Cope up and able to manage the disaster situations

Course Title	Core MARKETING MANAGEMENT
Code	18COP02
	On completion of the course, students would be able to
CO-1	Apply the modern marketing concepts in the business scenario
CO-2	Develop appropriate marketing mix for various market segments
CO-3	Identify and develop the product required by the customers and fix competitive price
CO-4	Apply the distribution strategies and eliminate the place hindrance of the customers
CO-5	Identify the customer taste and preferences and adopt sales promotion techniques to compete in the market

Course Title	Core DIRECT TAX – I
Code	18COP03
	On completion of the course, students would be able to
CO-1	Identify the residential status and incidence of taxation for various types of assesses
CO-2	Apply the knowledge for computing Taxable salary Income and House Property Income
CO-3	Identify the expenses allowed and disallowed in business income calculations and compute the capital gain on transfer of property
CO-4	Compute the income under the head other sources, apply the knowledge for aggregation of income and set-off and carry forward of losses
CO-5	Apply tax provision for assessing individual's income

Course Title	Core FINANCIAL MANAGEMENT
Code	18COP04
	On completion of the course, students would be able to
CO-1	Apply the knowledge gained in analyzing the financial statements
CO-2	Measure the specific cost of capital and frame the optimum capital structure for the business enterprise
CO-3	Evaluate and identify the best investment among the alternatives and maximize the shareholders wealth
CO-4	Evaluate the working capital requirement of a concern to select the appropriate source for financing working capital
CO-5	Apply the knowledge gained on various types of dividend policies and adopt suitable dividend decisions

Course Title	Core COMPUTER PRACTICAL – I EXCEL
Code	18COP06
	On completion of the course, students would be able to
CO-1	Create appropriate chart for making presentation of data
CO-2	Utilize the financial and logical functions in analyzing the financial informations
CO-3	Use what-if-analysis while analyzing various business situations
CO-4	Create the database, apply filter and prepare pivot table for analyzing the database
CO-5	Utilize the Excel by compiling the data related to business to arrive at conclusions

Course Title	Core ADVANCED COPORATE ACCOUNTING
Code	18COP07
	On completion of the course, students would be able to
CO-1	Identify and pass entries while issuing shares and debentures of a company
CO-2	Prepare final accounts as per the provisions of the Companies Act
CO-3	Value the shares and goodwill of the company and prepare accounts in the process of liquidation
CO-4	Apply the knowledge of accounting in amalgamation, absorption and reconstruction of companies
CO-5	Compile the consolidated balance sheet of a Holding Company

Course Title	Core DIRECT TAX II
Code	18COP08
	On completion of the course, students would be able to
CO-1	Compute the Taxable Income of a Partnership Firm
CO-2	Assess the Income of a Company
CO-3	Understand the hierarchy of the Authorities in Tax Administration and Procedure for Assessment
CO-4	Apply the Tax Provisions for TDS
CO-5	Prepare Income Tax Returns for Salaried class and apply the Tax Planning Methods

Course Title	Core BUSINESS RESEARCH METHODS
Code	18COP09
	On completion of the course, students would be able to
CO-1	Identify the research problem and select appropriate research technique
CO-2	Develop a research design and adopt necessary sampling methods
CO-3	Identify the proper method to collect the data
CO-4	Analyze the data through statistical tools
CO-5	Interpret the data and prepare a report

Course Title	Core COMPUTER PRACTICAL – II SPSS
Code	18COP10
	On completion of the course, students would be able to
CO-1	Enter the data in SPSS and prepare frequency table
CO-2	Present the data using appropriate graph available in SPSS
CO-3	Analyze the data using the tools in SPSS for chi square and correlation
CO-4	Apply the techniques of ANOVA and multiple regression in research
CO-5	Test the reliability of data and carryout factor analysis

Course Title	Core ACCOUNTING STANDARDS AND FINANCIAL REPORTING
Code	18COP11
	On completion of the course, students would be able to
CO-1	Effectively define the need for Indian Accounting Standards
CO-2	Account Inventories and other Assets applying the Indian Accounting Standards
CO-3	Apply appropriate Standards for accounting Revenue & Construction contracts
CO-4	Prepare Financial Statements by applying Indian Accounting Standards
CO-5	Apply the knowledge gained to account the wealth created by the organization and investments made in the Human Resources and e-commerce business transactions

Course Title	Allied ACCOUNTING FOR MANAGERIAL DECISION
Code	18ECP10
	On completion of the course, students would be able to
CO-1	Understand the differences between Financial Accounting and Management Accounting
CO-2	Analyze Liquidity, Solvency and Profitability position of the firm
CO-3	Identify the Sources and Applications of the Fund in the business through Fund Flow Statement
CO-4	Prepare Budget for Business Concerns
CO-5	Identify the Marginal Costing Techniques for appropriate business decisions

Course Title	Core ADVANCED COST AND MANAGEMENT ACCOUNTING
Code	18COP13
	On completion of the course, students would be able to
CO-1	Identify the significance of Cost and Management Accounting
CO-2	Apply appropriate techniques for controlling Material Cost, Computing Labour Cost and allocating Overheads
CO-3	Apply knowledge for computing cost in different industries
CO-4	Analyze the Variance and Prepare Fund Flow and Cash Flow Statements
CO-5	Apply the techniques of Marginal Costing and Budgetary Control

Course Title	Core CORPORATE AND OTHER LAWS
Code	18COP14
	On completion of the course, students would be able to
CO-1	Apply knowledge while dealing in Foreign exchange Transaction
CO-2	Identify and apply the guidelines related to Primary Markets
CO-3	Evaluate the Consumer Protection Laws and apply appropriately
CO-4	Create Patents and Copy Right for their products adopting the legal provisions
CO-5	Identify and apply the Provisions of Banking and Insurance Legislations whenever required

Course Title	Core EXECUTIVE COMMUNICATION
Code	18COP15
	On completion of the course, students would be able to
CO-1	Create Effective message paragraph and contents for email
CO-2	Write effective Professional Letters
CO-3	Identify and use verbal communication techniques
CO-4	Use appropriate skills and etiquette in inter personal communication
CO-5	Plan and develop presentations related to business

Course Title	Core FINANCIAL MARKETS
Code	18COP16
	On completion of the course, students would be able to
CO-1	Utilize the Financial Markets Instruments
CO-2	Evaluate and deal in Money Market Operations
CO-3	Identify the Price Determination factors and utilize the Debt Market Instruments
CO-4	Evaluate the exchange risk and utilize the Risk Management Tools
CO-5	Identify and Manage Risks in Derivative Market

Course Title	Discipline Specific Elective - I INTERNATIONAL BUSINESS
Code	18COP17A
	On completion of the course, students would be able to
CO-1	Apply the basic concepts of International Business
CO-2	Evaluate FDI and International Business Environment
CO-3	Analyze the features of Commercial Policy and International organizations
CO-4	Identify the importance of International Financial Environment
CO-5	Apply the knowledge of Trade Policy and Procedures for Export and Import Trade

Course Title	Discipline Specific Elective - II FOREIGN TRADE AND EXPORT MANAGEMENT
Code	18COP17B
	On completion of the course, students would be able to
CO-1	Assess the Methods of Foreign Trade
CO-2	Analyze the Instruments in Foreign Trade
CO-3	Apply the Export Control Measures
CO-4	Evaluate the Foreign Trade Financial Transactions and Contracts
CO-5	Utilize the Foreign Trade Promotional Measures

Course Title	Core HUMAN RESOURCE MANAGEMENT
Code	18COP21
	On completion of the course, students would be able to
CO-1	Create Strategic HRM in an organization
CO-2	Evaluate the job and recruit the personnel for an organization
CO-3	Apply appropriate training methods in an organization
CO-4	Evaluate the performance of the employees and make salary administration effectively
CO-5	Build Employee Morale and improve the quality of work life

Course Title	Core LOGISTICS AND SUPPLY CHAIN MANAGEMENT
Code	18COP22
	On completion of the course, students would be able to
CO-1	Apply the knowledge for Planning the Logistics and Supply Chain Operations
CO-2	Identify the appropriate Transport Strategy
CO-3	Evaluate the Inventory Control Measures
CO-4	Analyze the Location Problems
CO-5	Identify the Control Measures of Supply Chain Management

Course Title	Core SECURITY ANALYSIS AND PORTFOLIO MANAGEMENT
Code	18COP23
	On completion of the course, students would be able to
CO-1	Analyze the Risk and Return of Investment and deal with Financial Market
CO-2	Evaluate the company on the basis of Industry and Economy
CO-3	Apply Technical Analysis for evaluating the Market
CO-4	Evaluate the Risk and Return of Portfolio and develop Portfolios
CO-5	Apply the strategies in Portfolio Revision and Evaluation

Course Title	Core GOODS AND SERVICES TAX
Code	18COP24
	On completion of the course, students would be able to
CO-1	Identify the concepts of GST
CO-2	Evaluate the types of Supply
CO-3	Apply the Procedure for Registration and Valuation
CO-4	Compute CGST, IGST and SGST
CO-5	Apply the provisions related to Returns, Refunds, Penalties and Offences

Course Title	Core TALLY - COMPUTER PRACTICAL – III
Code	18COP25
	On completion of the course, students would be able to
CO-1	Create Company in Tally Software
CO-2	Work with Accounting Vouchers and prepare Statement of Accounts
CO-3	Prepare Inventory Report
CO-4	Prepare Bank Reconciliation Statement
CO-5	Apply GST Provisions in Tally

Course Title	Discipline Specific Elective - II E- COMMERCE
Code	18COP26A
	On completion of the course, students would be able to
CO-1	Evaluate the e-Commerce Transactions
CO-2	Identify the Network Infrastructure for e-Commerce
CO-3	Apply EDI applications in business
CO-4	Differentiate the Strategies of Online Advertising
CO-5	Utilize the Electronic Mode of Payment System

Course Title	Discipline Specific Elective – I MANAGEMENT INFORMATION SYSTEM
Code	18COP26B
	On completion of the course, students would be able to
CO-1	Identify the components and activities of Management Information System
CO-2	Solve the Business Problems applying Problem Solving Methods
CO-3	Handle Transaction Processing System
CO-4	Formulate appropriate Business Decisions
CO-5	Manage the Information Resources and Technology

Course Title	Generic Elective Course – Cluster – III SHARE MARKET OPERATIONS
Code	18ECP15E / 18TAP13E / 18SWP16E / 18MCP17E / 18PSP23E
	On completion of the course, students would be able to
CO-1	Apply the knowledge of Investment avenues
CO-2	Operate in Financial Markets
CO-3	Differentiate the Stock Market Indices
CO-4	Evaluate the Depositories for Opening an Account
CO-5	Recollect the Trading Mechanism of Stock Market



PSG College of Arts & Science Coimbatore – 641 014

Programme: MCom with Computer Applications

Programme Outcomes

	On completion of the programme, the student will be able to
PO-1	Become knowledgeable in the field of computer programming and apply the programming knowledge in designing software packages for individual firms and for outsourcing
PO-2	Gain analytical skills in the areas of data mining, customer relationship management, supply chain management and business process re-engineering
PO-3	Understand and appreciate Professional Ethics, Community Living and Nation Building Initiatives
PO-4	Build knowledge for business process outsourcing and knowledge process outsourcing
PO-5	In depth core competency to meet the multifunctional challenges in the global environment

Programme Specific Outcomes

	On completion of the programme, the student will be able to
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	Excel in the programming techniques for software development
PSO-4	Form a part of member in a team with right attitude

Course Outcomes

Course Title	Core OBJECT ORIENTED PROGRAMMING WITH C++
Code	18CCP01
	On completion of the course, students would be able to
CO-1	Apply the concepts of C++ supporting object oriented programming
CO-2	Learn to produce object oriented software using C++
CO-3	Learn to implement copy constructors and class member functions
CO-4	Demonstrate the knowledge on overload functions and operators in C++
CO-5	Apply the concepts to implement object oriented programs in C++, encapsulation, inheritance and polymorphism

Course Title	Core MARKETING MANAGEMENT
Code	18CCP02
	On completion of the course, students would be able to
CO-1	Apply the modern marketing concepts in the business scenario
CO-2	Develop appropriate marketing mix for various market segments
CO-3	Identify and develop the product required by the customers and fix competitive price
CO-4	Apply the distribution strategies and eliminate the place hindrance of the customers
CO-5	Identify the customer taste and preferences and adopt sales promotion techniques to compete in the market

Course Title	Core DIRECT TAX
Code	18CCP03
	On completion of the course, students would be able to
CO-1	Identify the residential status and incidence of taxation for various types of assesses
CO-2	Apply the knowledge for computing Taxable salary Income and House Property Income
CO-3	Identify the expenses allowed and disallowed in business income calculations and compute the capital gain on transfer of property
CO-4	Compute the income under the head other sources, apply the knowledge for aggregation of income and set-off and carry forward of losses
CO-5	Apply tax provision for assessing individual's income

Course Title	Core FINANCIAL MANAGEMENT
Code	18CCP04
	On completion of the course, students would be able to
CO-1	Apply the knowledge gained in analyzing the financial statements
CO-2	Measure the specific cost of capital and frame the optimum capital structure for the business enterprise
CO-3	Evaluate and identify the best investment among the alternatives and maximize the shareholders wealth
CO-4	Evaluate the working capital requirement of a concern to select the appropriate source for financing working capital
CO-5	Apply the knowledge gained on various types of dividend policies and adopt suitable dividend decisions

Course Title	Core Computer Practical – I – C++
Code	18CCP06
	On completion of the course, students would be able to
CO-1	Gain practical knowledge about Object Oriented Programming through C++
CO-2	Make their Own Applications/Projects using C++

Course Title	Core ADVANCED CORPORATE ACCOUNTING
Code	18CCP07
	On completion of the course, students would be able to
CO-1	Identify and pass entries while issuing shares and debentures of a company
CO-2	Prepare final accounts as per the provisions of the Companies Act
CO-3	Value the shares and goodwill of the company and prepare accounts in the liquidation
CO-4	Apply the knowledge of accounting in amalgamation, absorption and recon companies
CO-5	Compile the consolidated balance sheet of a Holding Company

Course Title	Core ORACLE
Code	18CCP08
	On completion of the course, students would be able to
CO-1	Understand and apply database concepts and DMBS software
CO-2	Write SQL commands to create tables/insert/update/delete data
CO-3	Program a data intensive application using DBMS
CO-4	Create and apply the concepts of packages, triggers and functions

Course Title	Core BUSINESS RESEARCH METHODS
Code	18CCP09
	On completion of the course, students would be able to
CO-1	Identify the research problem and select appropriate research technique
CO-2	Develop a research design and adopt necessary sampling methods
CO-3	Identify the proper method to collect the data
CO-4	Analyze the data through statistical tools
CO-5	Interpret the data and prepare a report

Course Title	Core COMPUTER PRACTICAL – II – ORACLE
Code	18CCP10
	On completion of the course, students would be able to
CO-1	Gain practical knowledge about SQL and PL/SQL
CO-2	Make their own Applications/Projects using SQL and PL/SQL

Course Title	Core DATA MINING AND ITS APPLICATIONS
Code	18CCP11
	On completion of the course, students would be able to
CO-1	Understand the concepts of data mining and its integration system
CO-2	Process raw data to make it suitable for various applications
CO-3	Develop online analytical processing and warehouse designing
CO-4	Gain knowledge on algorithms associated with data mining
CO-5	Knowledge acquisition on applications of data mining to health care and telecommunication industry

Course Title	Core GLOBAL BUSINESS ENVIRONMENT
Code	18CCP12
	On completion of the course, students would be able to
CO-1	Understand the dimensions of global business
CO-2	Enrich knowledge on the functioning of MNCs
CO-3	Explore the opportunities for international investments
CO-4	Identify the role of WTO / GATT
CO-5	Gain knowledge on the regulations of foreign trade

Course Title	Core ADVANCED COST AND MANAGEMENT ACCOUNTING
Code	18CCP13
	On completion of the course, students would be able to
CO-1	Identify the significance of cost and management accounting
CO-2	Apply appropriate techniques for controlling Material Cost, Computing Labour Cost and allocating Overheads
CO-3	Apply knowledge for computing cost in different industries
CO-4	Analyze the Variance and Prepare Fund Flow and Cash Flow Statements
CO-5	Apply the techniques of Marginal Costing and Budgetary Control

Course Title	Core .NET PROGRAMMING
Code	18CCP14
	On completion of the course, students would be able to
CO-1	Work with the concepts of .Net Framework
CO-2	Create Forms while designing Projects
CO-3	Develop deep knowledge on Application of Controls
CO-4	Apply Menus for Projects
CO-5	Design Web Page using ASP .Net

Course Title	Core EXECUTIVE COMMUNICATION
Code	18CCP15
	On completion of the course, students would be able to
CO-1	Create Effective message paragraph and contents for email
CO-2	Write effective Professional Letters
CO-3	Identify and use verbal communication techniques
CO-4	Use appropriate skills and etiquette in inter personal communication
CO-5	Plan and develop presentations related to business

Course Title	Core COMPUTER PRACTICAL – III – .NET PROGRAMMING
Code	18CCP16
	On completion of the course, students would be able to
CO-1	Expose the concepts of Database Connectivity
CO-2	Develop Projects that involves Database Applications

Course Title	Discipline Specific Elective – I NETWORKING AND INTERNET
Code	18CCP18A
	On completion of the course, students would be able to
CO-1	Understand the concepts of Computer Networks
CO-2	Enumerate the concepts of Transmission Modes
CO-3	Having in-depth knowledge on Wireless Networking Concepts
CO-4	Identify the different types of Network devices and their functions within a Network
CO-5	Apply the concepts of Network Security and Cryptography

Course Title	Core BUSINESS SYSTEM ANALYSIS AND DESIGN
Code	18CCP18B
	On completion of the course, students would be able to
CO-1	Have an insight on Information Processing of an organization
CO-2	Gain thorough knowledge on Attributes required for a System Analyst
CO-3	Apply appropriate Information Gathering Techniques
CO-4	Acquire practical knowledge on System Analysis
CO-5	Check the feasibility of the Developed System and its Implementation

Course Title	Core HUMAN RESOURCE MANAGEMENT
Code	18CCP20
	On completion of the course, students would be able to
CO-1	Create Strategic HRM in an organization
CO-2	Evaluate the job and recruit the personnel for an organization
CO-3	Apply appropriate training methods in an organization
CO-4	Evaluate the performance of the employees and make salary administration effectively
CO-5	Build Employee Morale and improve the quality of work life

Course Title	Core JAVA PROGRAMMING
Code	18CCP21
	On completion of the course, students would be able to
CO-1	Apply Java Programming for various Programming Technologies
CO-2	Apply the concept of Interfaces and Packages
CO-3	Develop Web Page using Applets
CO-4	Apply the concept of Exception in Java Programming Language
CO-5	Develop Software in Java Programming Language

Course Title	Core COMPUTER PRACTICAL – IV – JAVA PROGRAMMING
Code	18CCP22
	On completion of the course, students would be able to
CO-1	Execute Java Programs using Control Statements
CO-2	Develop Java Programs using Packages
CO-3	Execute Java Programs using Exception Handling
CO-4	Develop Applet Programs

Course Title	Core SECURITY ANALYSIS AND PORTFOLIO MANAGEMENT
Code	18CCP23
	On completion of the course, students would be able to
CO-1	Analyze the Risk and Return of Investment and deal with Financial Market
CO-2	Evaluate the company on the basis of Industry and Economy
CO-3	Apply Technical Analysis for evaluating the Market
CO-4	Evaluate the Risk and Return of Portfolio and develop Portfolios
CO-5	Apply the strategies in Portfolio Revision and Evaluation

Course Title	Core GOODS AND SERVICE TAX
Code	18CCP24
	On completion of the course, students would be able to
CO-1	Identify the concepts of GST.
CO-2	Evaluate the types of Supply
CO-3	Apply the Procedure for Registration and Valuation
CO-4	Compute CGST, IGST and SGST
CO-5	Apply the provisions related to Returns, Refunds, Penalties and Offences

Course Title	Discipline Specific Elective – II ENTERPRISE RESOURCE PLANNING
Code	18CCP26A
	On completion of the course, students would be able to
CO-1	Understand the Basic Concepts of ERP
CO-2	Develop an Approach to Risk Mitigation in ERP Systems
CO-3	Identify different Technologies used in ERP
CO-4	Apply different Tools used in ERP
CO-5	Implement ERP Solutions to Real Time Issues

Course Title	Discipline Specific Elective – II E-COMMERCE & E-BUSINESS
Code	18CCP26B
	On completion of the course, students would be able to
CO-1	Understand the Importance and Impact of E-commerce
CO-2	Assess Electronic Payment Systems and to discuss the Legal Issues and Privacy in E-Commerce
CO-3	Enhance the student's knowledge with various methods of Advertising Strategy and its implementation over the Web
CO-4	Apply the e-Banking Applications of NEFT & RTGS
CO-5	Apply the specific Tools, Techniques and Methods in e- Business

Course Title	Generic Elective Course – Cluster – VI Networking and Internet
Code	18GECIDC
	On completion of the course, students would be able to
CO-1	Understand the concepts of Computer Networks
CO-2	Enumerate the concepts of Transmission Modes
CO-3	Having in-depth Knowledge on Wireless Networking Concepts
CO-4	Identify the different types of Network devices and their functions within a Network
CO-5	Apply the concepts of Network Security and Cryptography



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Programme: MCom Corporate Secretaryship

Programme Outcomes

	On completion of the programme, the student will be able to
PO-1	Become knowledgeable in the subject of Company Law and Corporate law 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 Accounting and Taxation
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 final solution to Financial Problems
PO-6	Identify and apply compliance formalities in Company Administration

Programme Specific Outcomes

	On completion of the programme, the student will be able to
PSO-1	Apply the knowledge of Secretarial Laws in the domain of Corporate Administration
PSO-2	Solve the complex problems in the field of Company Affairs and GST with an understanding of the Societal, Legal and Cultural impacts of the solution
PSO-3	Understand the problems of corporate sector and finding solutions with available resource
PSO-4	Be an active member in a corporate team with right Attitude

Course Outcomes

Course Title	Core STRATEGIC MANAGEMENT
Code	18CSP01
	On completion of the course, students would be able to
CO-1	Apply corporate strategic planning process in business decision making
CO-2	Understand the prevailing business environment and use it in corporate planning and strategy formulation
CO-3	Implement the generic and grand strategies in various business decisions
CO-4	Use the various tools for strategy planning
CO-5	Apply and use models of strategic implementation and control

Course Title	Core ECONOMICS FOR DECISION MAKING
Code	18CSP02
	On completion of the course, students would be able to
CO-1	Apply economic laws in the business cycle of any product
CO-2	Take managerial decisions by applying laws of demand and supply
CO-3	Apply cost, production and return relationship in making business decisions
CO-4	Use pricing theories in taking pricing decisions and to apply for costing techniques in making business decisions
CO-5	Effectively implement profit planning and policies in changing corporate scenario

Course Title	Core GENERAL LAWS AND PROCEDURES – I
Code	18CSP03
	On completion of the course, students would be able to
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	Prepare plaint and defense statements
CO-4	Distinguish different offences and use it in the management company affairs
CO-5	Draft extracts for sale and sales deeds and mortgage deeds of different types

Course Title	Core ADVANCED COMPANY LAW AND SECRETARIAL PRACTICE – I
Code	18CSP04
	On completion of the course, students would be able to
CO-1	Capable of taking all steps for the formation of Companies
CO-2	Capable of Preparing 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 members of Company and other Creditors. Should be able to maintain Secretarial relationship with Members and other Creditors
CO-4	Guide and Assist Directors and Managing Directors in the Administration, Management and Control of Company Managerial Affairs
CO-5	Handle all legal and Practical matters regarding deposits made in Non-Banking Companies

Course Title	Core ADVANCED CORPORATE ACCOUNTING – I
Code	18CSP05
	On completion of the course, students would be able to
CO-1	Maintain accounting and other records for the issue of shares and debentures
CO-2	Prepare final accounting statement of companies in accordance with the provisions of companies Act
CO-3	Prepare schemes of amalgamation, absorption and reconstruction
CO-4	Prepare and maintain accounting records for these purposes
CO-5	Maintain registers and records which are required to be maintained by bank
CO-6	Prepare final accounting statements of banking
CO-7	Maintain registers and records which are required to be maintained by insurance
CO-8	Prepare final accounting statements of insurance

Course Title	Core ADVANCED COMPANY LAW AND SECRETARIAL PRACTICE – II
Code	18CSP06
	On completion of the course, students would be able to
CO-1	Play the role of Key Managerial Personnel
CO-2	Capable of doing all Secretarial Procedural work for issue of Shares
CO-3	Conduct Various Kinds of Meeting. Capable of issuing Notice, Drafting Agenda and Preparing Minutes
CO-4	Follow all Secretarial Procedure for appointment and removal of Directors and Auditors
CO-5	Capable of Preparing Compromise, Reconstruction arrangement of Companies
CO-6	Take up legal steps for winding up of Companies

Course Title	Core CORPORATE HUMAN RELATIONS
Code	18CSP07
	On completion of the course, students would be able to
CO-1	Apply Human Resource Management Concepts in Day-to-Day Operations of Business
CO-2	Solve the Organizational Problems with a Focus on Human Relation
CO-3	Draft and use Recruitment Application and other related forms
CO-4	Apply various tools for the purpose of Performance Appraisal
CO-5	Conduct Human Resource Audit and using Human Resource Information System for effective Collective Bargaining

Course Title	Core BANKING AND INSURANCE LAWS
Code	18CSP08
	On completion of the course, students would be able to
CO-1	Apply the theories and concepts of banking in dealing with banks
CO-2	Capable of using KYC norms and other latest terms used in banking
CO-3	Evaluate creditworthiness and capable of getting bank credit
CO-4	Develop different types of insurance policies and be able to take / give re-insurance and double insurance
CO-5	Correspond and deal with IRDA regulations

Course Title	Core COST AND MANAGEMENT ACCOUNTING
Code	18CSP09
	On completion of the course, students would be able to
CO-1	Establish and administer cost and management accounting departments in any concern
CO-2	Prepare cost sheet and various cost accounting registers and records
CO-3	Prepare cost and financial accounting reconciliation statements
CO-4	Prepare any budget based on forecast
CO-5	Apply marginal costing techniques in managerial decision making
CO-6	Prepare fund flow and cash flow statements, should be able to analyze and interpret company financial statements

Course Title	Core GOODS AND SERVICES TAX AND CUSTOMS
Code	18CSP10
	On completion of the course, students would be able to
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 and able to follow the procedure for Registration
CO-4	Distinguishing Integrated Goods and Services Tax from other concepts
CO-5	Distinguishing Taxable and Non-Taxable Goods and capable of computing Customs Duty and Filing of returns

Course Title	Core LABOUR AND INDUSTRIAL LAWS
Code	18CSP11
	On completion of the course, students would be able to
CO-1	Understand about social justice for labour
CO-2	Gain knowledge about working conditions in industries
CO-3	Apply labour laws acts with industrial relations
CO-4	Solve industrial disputes with awards
CO-5	Know the importance of trade union and claim compensation for disablement

Course Title	Core FINANCIAL AND FOREX MANAGEMENT
Code	18CSP12
	On completion of the course, students would be able to
CO-1	Play role of financial manager
CO-2	Capable of preparing capital budgets
CO-3	Capable of dealing with organizational risk & ensure minimum rate of return
CO-4	Do functions of treasury manager and CFO
CO-5	Capable of using forex trading and to evaluate forex exchange rate

Course Title	Core DIRECT TAXES - LAW AND PRACTICES
Code	18CSP13
	On completion of the course, students would be able to
CO-1	Understand the Concepts and Taxation of Individuals
CO-2	Compute income under Various Heads
CO-3	Compute income of firms and companies and comply with legal formalities
CO-4	Apply and use models of International Taxation
CO-5	Understand and comply with powers of Income Tax Authority

Course Title	Core ADVANCE CORPORATE ACCOUNTING – II
Code	18CSP14
	On completion of the course, students would be able to
CO-1	Understand accounting stands
CO-2	Prepare financial standards of limited companies
CO-3	Prepare consolidation of accounts of Holding and Subsidiary Companies
CO-4	Calculate valuation of shares and Goodwill
CO-5	Prepare corporate financial reports

Course Title	Discipline Specific Elective – I INTERNATIONAL BUSINESS
Code	18CSP15A
	On completion of the course, students would be able to
CO-1	Capable of analyzing market in International business environment
CO-2	Effectively draft all the documents in International trading
CO-3	Manage various sources of finance for exporting
CO-4	Promote India's export in foreign trade
CO-5	Utilize effective modes of logistics for export and import

Course Title	Discipline Specific Elective - I INDIAN BUSINESS ENVIRONMENT
Code	18CSP15B
	On completion of the course, students would be able to
CO-1	Aware current environment of business
CO-2	Think future of the business
CO-3	Make better technological planning of the business
CO-4	Understand competitors, suppliers and customers
CO-5	Relate the impact of environment on business

Course Title	Core CORPORATE RESTRUCTURING LAW AND PRATICES
Code	18CSP18
	On completion of the course, students would be able to
CO-1	Analyze carry on the business of the company more economically or more efficiently in the nature of corporate restructuring
CO-2	Understand the corporate restructuring strategies and apply for their success of the company
CO-3	Evaluate the approach of corporate towards the mergers and acquisitions events
CO-4	Improve productivity and profitability by joint efforts of technical and other personnel of both companies as a consequence of unified control
CO-5	Suggest appropriate measures for improving the status of the enterprises and restore them to sound health

Course Title	Core ECONOMIC LAWS
Code	18CSP19
	On completion of the course, students would be able to
CO-1	Apply The Competition Act 2002 & The Consumer Protection Act 1986
CO-2	Take managerial decisions by applying Pollution Control Laws
CO-3	Apply Foreign Exchange Management Act, 1999
CO-4	Comply with provisions of Industries (Development & Regulation) Act, 1951
CO-5	Effectively implement Intellectual property rights

Course Title	Core SECRETARIAL AUDIT AND COMPLIANCE MANAGEMENT
Code	18CSP20
	On completion of the course, students would be able to
CO-1	Know the checklist for conducting a secretarial audit
CO-2	Use search and status reports in practice
CO-3	Know the various secretarial standards
CO-4	Conduct a management audit in an organization
CO-5	Implement due diligence in business transactions

Course Title	Core CORPORATE GOVERNANCE
Code	18CSP21
	On completion of the course, students would be able to
CO-1	Apply the code of corporate governance in any business concern
CO-2	Evaluate the board performance of any corporate business enterprise
CO-3	Practice the corporate governance standards in Indian companies
CO-4	Work in compliance with regulatory framework given by various forums
CO-5	Follow ethical business practices in any business concern

Course Title	Discipline Specific Elective – II MODERN MARKETING
Code	18CSP22A
	On completion of the course, students would be able to
CO-1	Know how they target the customers
CO-2	Deal with competitions in market
CO-3	Build the loyalty with customers
CO-4	Focus on modern buying concept
CO-5	Face the challenges in market

Course Title	Discipline Specific Elective – II LOGISTICS AND SUPPLY CHAIN MANAGEMENT
Code	18CSP22B
	On completion of the course, students would be able to
CO-1	Know about the customer service and logistics management
CO-2	Get knowledge about logistics in 21 st century
CO-3	Understand the concept of supply chain management
CO-4	Know marketing management control
CO-5	Know the rules and conditions of Marine Insurance on Goods

Course Title	Generic Elective Course – Cluster – VI CONSTITUTIONAL LAWS
Code	18GECIDC
	On completion of the course, students would be able to
CO-1	Understand the History of Indian Constitution
CO-2	Have in dept knowledge in citizen’s fundamental rights and duties
CO-3	Apply the directive principles of state policy in making business decisions
CO-4	Apply general principles of laws in interpretation of statutes
CO-5	Prepare and maintain digital signature and e-record



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Programme: MCom International Business

Programme Outcomes

	On completion of the programme, the student will be able to
PO-1	Become knowledgeable in the subject of International Business and apply the principles of the same to the needs of the employer and their own business enterprises
PO-2	Gain analytical skills in the areas of international trade procedures relating to international financing and documentation, logistics operations and business strategies
PO-3	Understand and appreciate professional ethics, community living and nation building initiatives
PO-4	Ability to pursue research in the field of EXIM credit, foreign exchange reserves and international marketing
PO-5	Acquire core competency and qualify for employment in business engaged in global operation

Programme Specific Outcomes

	On completion of the programme, the student will be able to
PSO-1	Apply the knowledge of International Business, in the domain of shipping, air transportation and logistics
PSO-2	Solve the complex problems in the field of International Business with an understanding of societal, legal, political, cultural environment and the impact of international policies
PSO-3	Apply scientific approach and capability to undertake responsibilities for sustainable growth in International Business
PSO-4	Form a part of member in a team with right attitude

Course Outcomes

Course Title	Core INTERNATIONAL MANAGEMENT
Code	18MIB01
	On completion of the course, students would be able to
CO-1	Apply the managerial functions in international business & create an effective control mechanism in the organization
CO-2	Apply the scientific thoughts of management principles in formulating functional & regional management decisions
CO-3	Effectively interact in a group with positive attitude
CO-4	Manage the implementation and evaluation of strategies in change management
CO-5	Apply the procedures in the formulation of IHRM

Course Title	Core INTERNATIONAL MARKETING MANAGEMENT
Code	118MIB02
	On completion of the course, students would be able to
CO-1	Frame E-marketing strategies understanding the restraining forces of Global Marketing faced by International marketers
CO-2	Apply the techniques for effective marketing information systems to penetrate into new markets
CO-3	Assess the environmental factors to evaluate the decision Criteria for international Business
CO-4	Develop and launch new products and services in global marketing
CO-5	Critically analyze the appropriate channel for global marketing and distribution for introducing innovative marketing practices

Course Title	Core INTERNATIONAL BUSINESS ENVIRONMENT
Code	18MIB03
	On completion of the course, students would be able to
CO-1	Identify the challenges and apply the international trade theories
CO-2	Analyze the demand, supply, determine price and apply trade laws
CO-3	Frame strategies for dealing with different cultures in international business
CO-4	Interpret how political, legal and regulatory environment affect global markets
CO-5	Assess and criticize technologies to support an organization's multinational trading system

Course Title	Core INTERNATIONAL TRADE PROCEDURES – I
Code	18MIB04
	On completion of the course, students would be able to
CO-1	Identify the benefits of international trade and getting started in export business
CO-2	Analyze the export promotion scheme and mechanism for implementing the policy frame work
CO-3	Identify and utilize the schemes offered by the institutions for export promotion
CO-4	Apply the theories of international trade and services to manage the process of exports
CO-5	Identify the best suited market for international trade

Course Title	Core PRACTICAL I - EXECUTIVE COMMUNICATION
Code	18MIB05
	On completion of the course, students would be able to
CO-1	Identify the official website of the Government and read its contents
CO-2	Discipline the mind and communicate effectively without any miscommunication
CO-3	Address the members in the corporate and external stake holders with confidence
CO-4	Resolve conflicts and manage negotiations effectively
CO-5	Create professional email messages and create website

Course Title	Core ACCOUNTING FOR DECISION MAKING
Code	18MIB06
	On completion of the course, students would be able to
CO-1	Apply the knowledge of accounting in the preparation of final accounts for sole trading concern and utilize IFRS
CO-2	Apply ratio analysis in analyzing the liquidity, solvency and profitability position of the firm
CO-3	Evaluate the various investment alternatives using capital budgeting and effectively manage working capital
CO-4	Analyze the cost of the product per unit and identify the break-even point
CO-5	Forecast the cost and profit of product for various levels of output

Course Title	Core INTERNATIONAL TRADE PROCEDURES – II
Code	18MIB07
	On completion of the course, students would be able to
CO-1	Application of EXIM operations in International Business
CO-2	Ability to apply HS Code, requirement for EDI and customs operations
CO-3	Evaluate the export credit finance and international payment methods for imports
CO-4	Apply the procedure for pre shipment and post shipment finance in international trade
CO-5	Identify the EXIM manifest drawback pertains to international business

Course Title	Core CROSS-CULTURAL MANAGEMENT AND INDUSTRIAL BUYER BEHAVIOUR
Code	18MIB08
	On completion of the course, students would be able to
CO-1	Analyze the cross cultural dimensions in International Business
CO-2	Critically analyze and manage the cross cultural issues in International Business
CO-3	Implement the marketing mix for various market segments understanding the buyer behavior
CO-4	Assess and leverage the impact of models of consumer behavior culture in business
CO-5	Identify the requirements of the international consumers & satisfy them by applying innovation diffusion and consumer adoption process

Course Title	Core PRACTICAL II – INTERNATIONAL TRADE DOCUMENTATION
Code	18MIB09
	On completion of the course, students would be able to
CO-1	Outline and relate to various DGFT related documents for setting up an export firm
CO-2	Demonstrate different EXIM documents in trade related business
CO-3	Assess the Ice Gate documents to apply for the trade in export and import business
CO-4	Identify the nomenclature of Import and Export facilitating in International Business
CO-5	Apply for the drawbacks and other schemes pertaining to the international business operations

Course Title	Discipline Specific Elective – I FOREIGN EXCHANGE AND RISK MANAGEMENT IN INTERNATIONAL BUSINESS
Code	18MIB10A
	On completion of the course, students would be able to
CO-1	Analyze the functioning of foreign exchange market, the spot market and the forward market
CO-2	Analyze the information driven in the foreign markets & use business operators in controlling and managing foreign exchange
CO-3	Identify foreign exchange risk & manage risk effectively with appropriate risk management techniques
CO-4	Safeguard against uncertainties in export payments
CO-5	Evaluate the best risk financing techniques that helps their business in mitigating and hedging with financial risks

Course Title	Discipline Specific Elective – I INTERNATIONAL FINANCIAL MANAGEMENT
Code	18MIB10B
	On completion of the course, students would be able to
CO-1	Demonstrate the understanding of international financial theory and applications pertaining to, exchange rate determinants, foreign exchange exposure
CO-2	Effectively manage international portfolio
CO-3	Formulate optimum capital structure and manage working capital
CO-4	Effectively manage currency & interest rate risk in international business
CO-5	Utilize the suitable derivative products

Course Title	Core BUSINESS RESEARCH AND BUSINESS INTELLIGENCE
Code	18MIB13
	On completion of the course, students would be able to
CO-1	Formulate a research problem and analyze the problem and find out the solution
CO-2	Collect data for the research problem to analyze and interpret to draft the suggestions
CO-3	Evaluate the collected data and write a proper research report
CO-4	Analyze a business problem in all possible way with sufficient data
CO-5	Use modern tools and techniques of business intelligence

Course Title	Core INTERNATIONAL BUSINESS LAW (RELATIONS & IPR)
Code	18MIB14
	On completion of the course, students would be able to
CO-1	Understand the different case laws pertaining to international Business
CO-2	Identify the intricacies involved in the regulatory framework of WTO
CO-3	Analyze on the rights granted by WIPO on various IP related matters
CO-4	Understand the regulations and treaties relating to International Business conventions
CO-5	Enable the need for International Relations and the Foreign Policies

Course Title	Core INTERNATIONAL TRADE LOGISTICS – I
Code	18MIB15
	On completion of the course, students would be able to
CO-1	Interpret the best logistics solution required for an effective International Business
CO-2	Enable the proper inventory planning of goods according to the requirements of the product
CO-3	Dissect on the best shipping option for reducing the logistical expenses
CO-4	Compare the role of each intermediary in international business and their services
CO-5	Understand the importance and usage of containers in the most efficient way

Course Title	Core SUPPLY CHAIN MANAGEMENT
Code	18MIB16
	On completion of the course, students would be able to
CO-1	Understand the implications and importance of an effective supply chain network
CO-2	Create an efficient supply chain design for enhanced profitability
CO-3	Inspect on the best possible mode of procurement and sourcing of the variables in the value creation of products
CO-4	Categorize the best collaborative practices so that value creation is effectively done
CO-5	Estimate the best E-Business strategy to integrate SCM and IT

Course Title	Discipline Specific Elective – II AIR TRANSPORTATION MANAGEMENT
Code	18MIB17A
	On completion of the course, students would be able to
CO-1	Understand the nuance of Indian Airline Industry and Air Crafts
CO-2	Adopt the best policies and guidelines drafted by the agencies relating to air transportation
CO-3	Familiarize with air cargo terminology and operations
CO-4	Analyze the travel formalities and the essentials of air travel
CO-5	Apply the best rule on cargo and passenger movements

Course Title	Discipline Specific Elective – II TRANSPORTATION AND DISTRIBUTION MANAGEMENT
Code	18MIB17B
	On completion of the course, students would be able to
CO-1	Understand the role of distribution in Supply Chain Management
CO-2	Create the best possible distribution network and analyze the factor affecting the network
CO-3	Formulate a better role of transportation in Supply Chain Management
CO-4	Analyze the most feasible system of transportation to enhance logistical value chain
CO-5	Use the best possible system for efficient transportation using Information Technology

Course Title	Core MARINE LOGISTICS
Code	18MIB19
	On completion of the course, students would be able to
CO-1	Categorize on the features of different types of cargo and specific requirements of special category of cargo
CO-2	Analyze on special facilities available in Ports
CO-3	Assess the role of the shipping lines and the service they offer
CO-4	Familiarize with the types and features of containers and their capacity
CO-5	Disseminate on the documentation process involved in marine logistics

Course Title	Core INTERNATIONAL FINANCIAL MARKETS AND INSTRUMENTS
Code	18MIB21
	On completion of the course, students would be able to
CO-1	Understand the functioning of International Financial Management
CO-2	Explore various sources of financing MNCs
CO-3	Make firm decision on appropriate funding options
CO-4	Evaluate the various instruments in International Financial Markets
CO-5	Understand the workings of Euro Currency Market

Course Title	Core BUSINESS ETHICS
Code	18MIB22
	On completion of the course, students would be able to
CO-1	Understand the need and significance of Business Ethics
CO-2	Evaluate the most feasible value system for a company
CO-3	Manage the ethical issues in maintaining better relationship with all stakeholders
CO-4	Familiarize with the theories and models of corporate governance
CO-5	Enhance the management for plotting Corporate Social Responsibility in the organization

Course Title	Core INTERNATIONAL BUSINESS STRATEGIES
Code	18MIB23
	On completion of the course, students would be able to
CO-1	Develop an understanding on the conceptual framework that clarifies the relationships between policies for domestic and global strategies
CO-2	Formulate key strategic decision based on internal and external analysis
CO-3	Understand competitive advantage and formulate various strategies across different levels of business decisions
CO-4	Find out avenues for entering overseas market or expanding existing operations as a part of corporate strategy
CO-5	Follow an efficient strategic control mechanism in the organization by analyzing the issues in global strategy implementation

Course Title	Core INTERNATIONAL TRADE LOGISTICS – II
Code	18MIB24
	On completion of the course, students would be able to
CO-1	Able to categorize the difference between minor and major ports in India and their role in promoting International Trade
CO-2	Familiarize with the port operations and analyze the productivity at the ports
CO-3	Enable and judge the facilities available in a terminal
CO-4	Understand the administration and management activities in the port
CO-5	Equip with knowledge regarding Regulatory Framework of the ports

Course Title	Core E-COMMERCE & CUSTOMER RELATIONSHIP MANAGEMENT
Code	18MIB25
	On completion of the course, students would be able to
CO-1	Understand the basics of E-Commerce and E-Business and giving insight about developing E-Commerce websites
CO-2	Create business models of E-Commerce infrastructure
CO-3	Formulate business to consumer E-Commerce applications
CO-4	Understand the need and significance of Customer Relationship Management
CO-5	Get an insight into the practical usage of CRM in retailing

Course Title	Core AVIATION LOGISTICS
Code	18MIB26
	On completion of the course, students would be able to
CO-1	Understand the importance of Indian Airline Industry
CO-2	Usage of Unit Load Devices and adopt the best operation technique
CO-3	Familiarize with airline marketing and customer service render there in
CO-4	Analyze the air cargo rates and finalize with the best quotation
CO-5	Apply the best rule on air freight forwarding

Course Title	Generic Elective Course – Cluster – VI INTELLECTUAL PROPERTY RIGHTS
Code	18GCEIDC
	On completion of the course, students would be able to
CO-1	Recognize the basic need and significance of intellectual property
CO-2	Familiarize with the benefits and need of Copyrights along with the act of infringement
CO-3	Apply for patents for the innovations at the domestic and global level
CO-4	Create and file for trademarks
CO-5	Understand the significance of Geographical indication and biological diversity



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Programme: MCA

Programme Outcomes

	On completion of the programme, the student will be able to
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 Problem Solving
PO-3	Understand and realize professional ethics, society living and Nation building initiatives
PO-4	Apply the knowledge of mathematics and computing essentials to various real life applications for any given prerequisite
PO-5	Design and develop applications to evaluate and solve all computer science related problems
PO-6	Analyze and review literatures to invoke the research skills to design, interpret and make inferences from the resulting data.
PO-7	Solve and work with a expert context pertaining to ethics, social, cultural and cyber regulations
PO-8	Create and design ground-breaking methodologies to solve complex problems for the betterment of the society

Programme Specific Outcomes

	On completion of the programme, the student will be able to
PSO-1	Apply the comprehension of Computer Applications in the domain of computer Science
PSO-2	Solve the complex problems in the field of industry and research with an understanding of the societal, legal and cultural impacts of the solution
PSO-3	Identify, analyze, formulate and develop computer applications so as to map with real life scenarios to provide optimal solution
PSO-4	Form a part of member in a team with right attitudes

Course Outcomes

Course Title	Core PROGRAMMING LANGUAGE DESIGN AND IMPLEMENTATION
Code	18CAP01
	On completion of the course, students would be able to
CO-1	Design C Programs for problems
CO-2	Write and execute C programs for simple applications
CO-3	Use the control structures of programming languages appropriately
CO-4	Design problem solutions using Object Oriented Techniques
CO-5	Apply the concepts of data abstraction, encapsulation and inheritance for problem solutions

Course Title	Core DATA STRUCTURES & ALGORITHM
Code	18CAP02
	On completion of the course, students would be able to
CO-1	Apply and implement the learnt algorithm design techniques and data structures to solve Problems
CO-2	Recognize and implement the Graph algorithms in real time scenario
CO-3	Implement the concepts of Tree and Heap data structure
CO-4	Appreciate and implement the Greedy and Backtracking Algorithm
CO-5	Be familiar with the concepts of Hashing & its types

Course Title	Core COMPUTER SYSTEM ARCHITECTURE
Code	18CAP03
	On completion of the course, students would be able to
CO-1	Describe the methods used for the simplification of Boolean functions
CO-2	Recognize the data representation & register transfer concepts
CO-3	Distinguish basic computer and its functions
CO-4	Be familiar with the instruction format for CPU and DMA
CO-5	Aware of memory management and multi processor

Course Title	Core LAB-I (PROGRAMMING LANGUAGE DESIGN AND IMPLEMENTATION LAB)
Code	18CAP06
	On completion of the course, students would be able to
CO-1	Apply good programming design methods for program development in C & C++
CO-2	Acquainted with string functions
CO-3	Familiarize the concepts of sorting and searching
CO-4	Develop recursive programs
CO-5	Recognize the concepts of files in C & C++

Course Title	Core LAB-II (DATA STRUCTURES LAB)
Code	18CAP07
	On completion of the course, students would be able to
CO-1	Apply good programming design methods for program development
CO-2	Apply the different data structures for implementing solutions to practical problems
CO-3	Develop searching and sorting programs
CO-4	Access how the choices of data structure & algorithm methods impact the performance of program
CO-5	Have knowledge of tree and graphs concepts

Course Title	Core DATABASE MANAGEMENT SYSTEM
Code	18CAP09
	On completion of the course, students would be able to
CO-1	Appreciate the Relational Database concepts
CO-2	Recognize the concepts of processes, IPC problems & scheduling
CO-3	Distinguish deadlock characteristics and issues
CO-4	Interpret the mechanisms adopted for CPU scheduling
CO-5	Conceptualize the components involved in memory & file management

Course Title	Core DISTRIBUTED PROGRAMMING
Code	18CAP10
	On completion of the course, students would be able to
CO-1	Describe the fundamentals underlying principles of .Net Framework
CO-2	Be familiar with the basic concepts of C#
CO-3	Be familiar with regular expressions and exceptions
CO-4	Recognize the basic controls Web site fundamentals and data access using Asp.net
CO-5	Be familiar with understanding the database connectivity concepts

Course Title	Core COMPUTER NETWORKS
Code	18CAP11
	On completion of the course, students would be able to
CO-1	Describe fundamental underlying principles of computer networking protocols
CO-2	Describe and analyze the hardware, software, components of a network and the inter relational signals
CO-3	Analyze the requirements for error correction and detection networking architecture and technologies
CO-4	Specify and identify deficiencies in existing protocols layers, and then go onto select new and better protocols
CO-5	Describe and analyze the components of a Wireless Networks

Course Title	Core OPERATING SYSTEM
Code	18CAP12
	On completion of the course, students would be able to
CO-1	Appreciate the structure and evolution of OS and significance of virtual Machines
CO-2	Recognize the concepts of processes, IPC problems & scheduling
CO-3	Distinguish deadlock characteristics and issues
CO-4	Interpret the mechanisms adopted for CPU scheduling
CO-5	Conceptualize the components involved in memory & file management

Course Title	Core LAB-IV (RDBMS LAB)
Code	18CAP14
	On completion of the course, students would be able to
CO-1	Be familiar with the data manipulation and data processing concepts through SQL & PL/SQL
CO-2	Expertise in relational & integrity concepts of databases
CO-3	Recognize the privileges hierarchies
CO-4	Be acquainted with Views
CO-5	Become skilled at indexing and triggers

Course Title	Core LAB -V (DISTRIBUTED PROGRAMMING LAB)
Code	18CAP15
	On completion of the course, students would be able to
CO-1	Apply good programming design methods for program development
CO-2	Be familiar with designing, writing and testing C# programs
CO-3	Recognize the web forms and validation control of ASP.net
CO-4	Be familiar with writing data base connectivity
CO-5	Apply programming skill to develop a web application

Course Title	Core LAB -V (NETWORK PROGRAMMING LAB)
Code	18CAP16
	On completion of the course, students would be able to
CO-1	Execute 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	Demonstrate their use in different network scenarios
CO-5	Write encryption programs in java

Course Title	Core ADVANCED JAVA
Code	19CAP16
	On completion of the course, students would be able to
CO-1	Familiar withJ2EE architecture
CO-2	Construct Web Application using Servlets and Java Server Pages
CO-3	Build enterprise application using Session Beans
CO-4	Asynchronous enterprise application using Message-Driven Beans
CO-5	Implement application using Entity Beans linked with Database

Course Title	Core NOSQL DATABASES
Code	19CAP17
	On completion of the course, students would be able to
CO-1	Acquainted with different types of NoSQL Databases
CO-2	Appreciate the detailed architecture, define objects, load data, query data and performance tune Document-oriented NoSQL databases
CO-3	Construct Document typed NoSQL databases using MongoDB
CO-4	Create applications using MongoDB
CO-5	Build Column typed NoSQL databases using Cassandra

Course Title	Core LINUX ARCHITECTURE
Code	19CAP18
	On completion of the course, students would be able to
CO-1	Acquire knowledge on the basic commands and utilities in Linux
CO-2	Be aware of Linux Files and directory structure
CO-3	Achieve information on Memory Management
CO-4	Understand the concepts of Virtual Processes

Course Title	Discipline Specific Elective – I SECURITY IN COMPUTING
Code	19CAP19A
	On completion of the course, students would be able to
CO-1	Apply security principles in software development
CO-2	Entail Cloud security tools to software development
CO-3	Acquainted with Ethical Issues in Computer Security
CO-4	Have knowledge on Quantum Cryptography

Course Title	Discipline Specific Elective – I MOBILE COMPUTING
Code	19CAP19B
	On completion of the course, students would be able to
CO-1	Apply the core principles of Mobile Computing
CO-2	Fabricate networking concepts relevant to modern wireless systems
CO-3	Have knowledge on the emerging Technologies
CO-4	Apply mobile computing techniques

Course Title	Core LAB-VI (ADVANCED JAVA LAB)
Code	19CAP20
	On completion of the course, students would be able to
CO-1	Practice to use Data Base Connectivity (JDBC) to access database through Java programs
CO-2	Able to create dynamic web pages using Servlets and JSP
CO-3	Create reusable Java Bean class
CO-4	Apply the servlet classes
CO-5	Create and Implement session beans in EJB

Course Title	Core LAB - VII (NOSQL DATABASES LAB)
Code	19CAP21
	On completion of the course, students would be able to
CO-1	Appreciate the collections of MongoDB database
CO-2	Develop queries using MongoDB
CO-3	Identify sample applications and recreate the utilities of Cassandra
CO-4	Construct different applications of Cassandra

Course Title	Core WEB APPLICATION DEVELOPMENT
Code	19CAP23
	On completion of the course, students would be able to
CO-1	Ability to write valid XML that conforms with existing DTD
CO-2	Implement interactive web page(s) using XML, CSS and JavaScript
CO-3	Design a responsive web site using HTML5 and CSS
CO-4	Demonstrate Rich Internet Application
CO-5	Build Dynamic web site using server side PHP Programming and Database connectivity

Course Title	Core BIG DATA ANALYTICS
Code	19CAP24
	On completion of the course, students would be able to
CO-1	Be familiarize with the fundamentals of Big data
CO-2	Appreciate the concepts of collection, sampling and preprocessing
CO-3	Recognize various types of big data analytics
CO-4	Explore on Big data applications

Course Title	Core PROGRAMMING IN PYTHON
Code	19CAP25
	On completion of the course, students would be able to
CO-1	Understand the core principles of Python
CO-2	Create programs using Classes, Objects & Strings
CO-3	Appreciate inheritance and operator overloading concepts
CO-4	Familiarize with the fundamentals Exception and File Handling Concepts
CO-5	Apply Tkinter Concepts to create applications

Course Title	Discipline Specific Elective – II GREEN COMPUTING
Code	19CAP026A
	On completion of the course, students would be able to
CO-1	Minimize negative impacts on the environment
CO-2	Gain skill in energy saving practices in their use of hardware
CO-3	Examine technology tools that can reduce paper waste and carbon footprint by user
CO-4	Understand how to minimize equipment disposal requirements
CO-5	Apply Green IT Strategies and Applications in practical scenario

Course Title	Discipline Specific Elective – II SOFTWARE SECURITY
Code	19CAP26B
	On completion of the course, students would be able to
CO-1	Acquire the knowledge to develop Secured Software
CO-2	Gain the Knowledge of Various Vulnerabilities
CO-3	Understand the Security Risk Analysis Approaches

Course Title	Core LAB - VIII (WEB APPLICATION DEVELOPMENT LAB)
Code	19CAP28
	On completion of the course, students would be able to
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 and PHP
CO-3	Develop E – Commerce applications

Course Title	Core LAB - IX (PROGRAMMING IN PYTHON LAB)
Code	19CAP29
	On completion of the course, students would be able to
CO-1	Apply the concepts of object-oriented programming as used in Python: classes, subclasses, inheritance, and overriding
CO-2	Implement the concept String and lists
CO-3	Apply data from a text file using Python

Course Title	Core MACHINE LEARNING
Code	19CAP31
	On completion of the course, students would be able to
CO-1	Distinguish between Supervised, Unsupervised and Semi-supervised learning
CO-2	Apply the apt Machine learning strategy for any given problem
CO-3	Develop Supervised, Unsupervised or Semi-Supervised learning algorithm for any given problem
CO-4	Design System that uses the appropriate Graph models of machine learning
CO-5	Modify existing machine learning algorithms to improve Classification efficiency

Course Title	Core DATA SCIENCE & VISUALIZATION
Code	19CAP32
	On completion of the course, students would be able to
CO-1	Understand the data science processes
CO-2	Use knowledge of perception to evaluate visualization design alternatives
CO-3	Design and evaluate color palettes for visualization based on principles of perception
CO-4	Identify opportunities for application of data visualization in various domains
CO-5	Critique existing visualizations based on data visualization theory and principles

Course Title	Core NETWORK MANAGEMENT
Code	19CAP33
	On completion of the course, students would be able to
CO-1	Ability to understand the network management concepts
CO-2	Explore various Organizational and Informational Models
CO-3	Understand the concepts of Remote monitoring and Broadband Networks
CO-4	Analyze the Network Management Tools and Architecture
CO-5	Identify and analyze the network management applications

Course Title	Core R-PROGRAMMING
Code	19CAP34
	On completion of the course, students would be able to
CO-1	Solve the problems using computational methods and techniques
CO-2	Potential to use R to solve statistical problems
CO-3	Design a program using R Objects for an application
CO-4	Implementing regression model application
CO-5	Ability to comprehend the dataset using various plots in R

Course Title	Discipline Specific Elective – III ARTIFICIAL INTELLIGENCE
Code	19CAP35A
	On completion of the course, students would be able to
CO-1	Identify appropriate AI methods to solve a given problem
CO-2	Formalize a given problem in the framework of different AI methods
CO-3	Find out solutions for undesirable end
CO-4	Get an insight in designing prototype for real life problems
CO-5	Develop an insight in development a simple robot model

Course Title	Discipline Specific Elective – III AUTOMATA THEORY
Code	19CAP35B
	On completion of the course, students would be able to
CO-1	Acquire a fundamental understanding of the core concepts in automata theory and formal languages
CO-2	Design grammars and automata (recognizers) for different language classes
CO-3	Identify formal language classes and prove language membership properties
CO-4	Prove and disprove theorems in pushdown automata
CO-5	Acquire a fundamental understanding of core concepts relating to the Turing machines and context free languages

Course Title	Core LAB-X (MACHINE LEARNING LAB)
Code	19CAP36
	On completion of the course, students would be able to
CO-1	Understand the implementation procedures for the machine learning algorithms
CO-2	Design R/ Java/Python programs for various Learning algorithms
CO-3	Apply appropriate datasets using Machine Learning algorithms
CO-4	Identify and apply Machine Learning algorithms to solve real world problems
CO-5	Demonstrate the use of various ML algorithms using Different test case scenarios

Course Title	Core LAB-XI (DATA SCIENCE & VISUALIZATION LAB)
Code	19CAP37
	On completion of the course, students would be able to
CO-1	Explore the fundamental concepts of data science
CO-2	Understand data analysis techniques for applications handling large data
CO-3	Apply the necessary algorithms to solve the problems
CO-4	Understand the Concept of plots
CO-5	Apply appropriate data sets to get the proper visualization

Course Title	Generic Elective Course – Cluster – VI CLOUD COMPUTING
Code	
	On completion of the course, students would be able to
CO-1	Ability to Understand the Cloud Computing Services
CO-2	Recognize the Cloud computing Communication
CO-3	Aware of Online sharing of Information
CO-4	Appreciate the Online storing tools
CO-5	Be Familiar with Blogs and Wikis



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Programme: PGDBM

Programme Outcomes

	On completion of the programme, the student will be able to
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

	On completion of the programme, the student will be able to
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

Course Title	Core Elective MANAGEMENT PRINCIPLES AND PRACTICES
Code	18DBM01
	On completion of the course, students would be able to
CO-1	Have greater insight into fundamental management concepts
CO-2	Understand the importance of planning and decision making processes
CO-3	Assess different jobs and assign to people in organization
CO-4	Identify and articulate facets of people management
CO-5	Understand the fundamentals of control process and techniques

Course Title	Core Elective CONTEMPORARY MARKETING PRACTICES
Code	18DBM02
	On completion of the course, students would be able to
CO-1	Evaluate the impact of changing global, political, economic, competitive, environmental, cultural and social systems on marketing strategy development
CO-2	Examine the role of consumers as purchasers and users of goods and services using various theories and models of consumer behavior
CO-3	Develop plan to retain product in its life cycle in the market with its pricing strategies
CO-4	Execute appropriate channel management strategy for a execute appropriate channel management strategy for a product
CO-5	Become more comfortable with services marketing

Course Title	Core MANAGING HUMAN RESOURCES
Code	18DBM03
	On completion of the course, students would be able to
CO-1	Identify effective Human Resources practices
CO-2	Gain knowledge on various facets, the policies and practices of HRM
CO-3	Develop competency in HRD
CO-4	Demonstrate a good understanding of compensation policies
CO-5	Acquire the skills to build loyal and committed work force

Course Title	Core ENTREPRENEURSHIP DEVELOPMENT
Code	18DBM04
	On completion of the course, students would be able to
CO-1	Build knowledge on the basic concept of Entrepreneurship
CO-2	Be 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 effective business model and have a fair understanding on Project Management
CO-5	Support in-depth learning in managing family business owned units and rehabilitation of sick units

Course Title	Core OPERATIONS MANAGEMENT
Code	18DBM05
	On completion of the course, students would be able to
CO-1	Get exposed to various production and operations management system
CO-2	Identify suitable product design, process selection in the manufacturing process
CO-3	Identify the material requirement and control material flow
CO-4	Get exposed to material handling techniques and maintain optimal stock level of material required for daily production process
CO-5	Get insight about various quality control process and real time application of various quality control process in the industry

Course Title	Core FINANCIAL ANALYSIS FOR MANAGERS
Code	18DBM07
	On completion of the course, students would be able to
CO-1	Gain knowledge on basic accounting principles and practices
CO-2	Assess the profit/loss account of the company and to frame financial strategies according to it
CO-3	Adoption of cost accounting for the proper implementation of manufacturing process
CO-4	Learn the adoption of appropriate method of Financial Statement Analysis
CO-5	Assess the Budget of the company and to frame financial strategies according to it

Course Title	Core STRATEGIC MANAGEMENT
Code	18DBM08
	On completion of the course, students would be able to
CO-1	Acquire knowledge on the basic concept of Strategic Management
CO-2	Be familiar with components of Business environment and can understand strategic analysis
CO-3	Enrich their understanding on Strategy formulation and Strategic Choices
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

Course Title	Core SUPPLY CHAIN MANAGEMENT
Code	18DBM09
	On completion of the course, students would be able to
CO-1	Acquire skills required to manage supply chain activities
CO-2	Apply appropriate distribution design for a business
CO-3	Execute appropriate inventory management techniques for the business
CO-4	Implement required IT in Supply chain management operations
CO-5	Adopt business with the dynamics of supply chain management

Course Title	Core GLOBAL BUSINESS MANAGEMENT
Code	18DBM10
	On completion of the course, students would be able to
CO-1	Conduct an environmental scan to evaluate the impact of world issues on an organization's international business opportunities
CO-2	Have understanding the foreign economic, social, political, cultural and legal environment
CO-3	Enhance their knowledge of global issues
CO-4	Prepare documents and the application of export procedures to support the movement of products and services in the organization's global supply chain
CO-5	Understand the procedure of import documentation

Course Title	Generic Elective Course MANAGEMENT INFORMATION SYSTEM
Code	18DBM11
	On completion of the course, students would be able to
CO-1	Understand the basic concepts of information and decision making information systems
CO-2	Differentiate database systems from file systems by enumerating the features provided by database systems
CO-3	Gained the knowledge in the system analysis and its tools
CO-4	Acquired the knowledge about the TPS, AI, EIS and ERP
CO-5	Be imparted with the knowledge about information security and awareness about internet frauds



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PSG College of Arts & Science Coimbatore – 641 014

Programme: PGDHRM

Programme Outcomes

	On completion of the programme, the student will be able to
PO-1	Identify oneself as a Human Resource Personnel by imbibing the knowledge, values and ethics of the profession
PO-2	Ensure equity in practice with diverse populations by applying strategies of Advocacy
PO-3	Engage in research, evaluate research studies and apply the findings to develop new intervention strategies for micro, mezzo and macro levels of practices

Programme Specific Outcomes

	On completion of the programme, the student will be able to
PSO-1	Provide practical exposure to apply theoretical knowledge in practice through field work, Special visits
PSO-2	Build competencies in Personnel Management & Industrial Relations

Course Outcomes

Course Title	Core Elective LABOUR WELFARE
Code	18HRM01
	On completion of the course, students would be able to
CO-1	Understand a perspective of labour problems and remedial measures in the country

Course Title	Core Elective HUMAN RESOURCE MANAGEMENT - I
Code	18HRM02
	On completion of the course, students would be able to
CO-1	Be sensitized with various aspects to deal with People Resourcing and talent management

Course Title	Core INDUSTRIAL RELATIONS
Code	18HRM03
	On completion of the course, students would be able to
CO-1	Understand the nature of IR, Evolution of Trade union, current trends and practices for efficient management decisions and to ensure industrial peace

Course Title	Core ORGANIZATIONAL BEHAVIOUR & ORGANIZATIONAL DEVELOPMENT
Code	18HRM05
	On completion of the course, students would be able to
CO-1	Enhance students' managerial and organizational skills by developing a sound understanding of organizational behavior (OB)
CO-2	Effectively build and lead groups, and to use interpersonal interactions to communicate purpose and vision, inspire commitment, and motivate others

Course Title	Core LABOUR LEGISLATIONS
Code	18HRM06
	On completion of the course, students would be able to
CO-1	Understand the legal provisions relating to labour welfare in different industries
CO-2	Acquire the skills of working with the organized sector
CO-3	After going through various labour laws, students will be conversant regarding conflict management in legal perspective and judicial system pertaining to labour management relations

Course Title	Core HUMAN RESOURCE MANAGEMENT - II
Code	18HRM07
	On completion of the course, students would be able to
CO-1	Have complete knowledge about the various facets of managing people and understanding of the various specialized operational areas of HRM



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Programme: PGDIS

Course Outcomes

Course Title	Core INDUSTRIAL SAFETY & MANAGEMENT
Code	18PGDIS01
	On completion of the course, students would be able to
CO-1	Know type and the source of occupational hazards
CO-2	Understand and design various control measures in industries or their work environment
CO-3	Know how to train themselves among various odds/ accident and also provide training to subordinates
CO-4	Make their industry / work environment a fully secured and safety place, which strictly adhere/ confine to various HSE compliance
CO-5	Have thorough knowledge regarding policies governing HSE

Course Title	Core SAFETY IN INDUSTRIES
Code	18PGDIS02
	On completion of the course, students would be able to
CO-1	Design and usage of various Personal protective devices in work environment
CO-2	Learn to handle various safety instruments/ apparatus
CO-3	Gain Knowledge about personal medical check-up and provide training regarding various safety apparatus
CO-4	Understand Role of EPP and DMP in case of emergencies
CO-5	Create a work permit system and its significance

Course Title	Core LEGISLATION ON ENVIRONMENT, HEALTH & SAFETY
Code	18PGDIS03
	On completion of the course, students would be able to
CO-1	Formulate various EHS measures in work environment
CO-2	Create awareness of various EHS acts and strict amendments wherever necessary
CO-3	Care for safety of dock workers and construction works
CO-4	Control/ optimized resource utilization
CO-5	Practice EPP and DMP during chemical accidents

Course Title	Core ACCIDENT AND LOSS PREVENTION TECHNIQUES
Code	18PGDIS04
	On completion of the course, students would be able to
CO-1	Inculcate good activity procedure for loss prevention
CO-2	Create safe and secured working environment with safety standards
CO-3	Control the accidentals/ loss and giving training regarding various era procedures
CO-4	Frame frequent planning of safety audits for LP and CI
CO-5	Schedule continuous quality assessment through TQM principle

Course Title	Core INDUSTRIAL HYGIENE & OCCUPATIONAL
Code	18PGDIS05
	On completion of the course, students would be able to
CO-1	Educate people regarding industrial hygiene and occupational health
CO-2	Make their work environment fully aware of physical and chemical hazards and adoption of control strategies
CO-3	Perform various toxicological analysis of potential chemical, their effects and preventive measures
CO-4	Adopt the Physiological tests for assessment of occupational health and role of first aid and antidotes