PSG College of Arts & Science, Coimbatore – 14.

Scheme of Learning and Evaluation

Programme: B Sc Computer Science with Data Analytics (SF)

Course Code	Course Title	Course Category	Course Type	Part Type	Semester	Credits
22LAT101N	Tamil-I	ELECTIVE	THEORY	1	1	3
22LAH101N	Hindi-I	ELECTIVE	THEORY	1	1	3
22LAF101N	French-I	ELECTIVE	THEORY	1	1	3
	Communicative English I					
22EU101N	Interpersonal Communication	CORE	THEORY	2	1	3
	Major Course - Structured					
22DAU101N	Programming using C	CORE	THEORY	3	1	3
	Major Course Fundamentals					
22DAU102N	of Digital Computers	CORE	THEORY	3	1	2
	Mathematical Foundation for					
22DAU103N	Data Science (MA)	CORE	THEORY	3	1	3
	Practical -I (C Programming					
22DAU104N	Lab) [Skill Based]	CORE	PRACTICAL	3	1	2
	Major Course Practical -II					
	(Data Analysis using Excel					
22DAU105N	Lab) [Skill Based]	CORE	PRACTICAL	3	1	2
22LAT202N	TAMIL-II	ELECTIVE	THEORY	1	2	3
22LAH202N	HINDI-II	ELECTIVE	THEORY	1	2	3
	FRENCH - II - FRENCH					
	LANGUAGE & CULTURE -				_	_
22LAF202N	II	ELECTIVE	THEORY	1	2	3
	Communicative English II-	G055				
22EU202N	Academic Communication	CORE	THEORY	2	2	3
22DAU206N	Python for Data Analysis	CORE	THEORY	3	2	2
225 4 1120531	Fundamentals of Data	GODE	THE COLUMN	2		
22DAU207N	Structures	CORE	THEORY	3	2	2
22D A LI200NI	Discrete Structures and Graph	CODE	THEODY	2	2	2
22DAU208N	Theory	CORE	THEORY	3	2	3
22DAU209N	Statistical Data Analysis	CORE	THEORY	3	2	3
22D A LI210N	Practical -III (Python for Data	CODE	DD A CTIC A I	2	2	1
22DAU210N	Analysis Lab) [Skill Based]	CORE	PRACTICAL	3	2	1
	Practical -IV (Data Structures					
22DAU211N	using Python Lab) [Skill Based]	CORE	PRACTICAL	3	2	1
ZZDAUZIIN	Ability Enhancement	CORE	PRACTICAL	3		1
	Compulsory Course I -					
	Values and Ethics for Human					
23AECU201	Excellence	CORE	THEORY	4	2	2
231120201	Professional Skill					
23PSEU201	Enhanement-I	CORE	THEORY	4	2	2
23LAT303N	Tamil-III	ELECTIVE	THEORY	1	3	3

Hindi-III	ELECTIVE	THEORY	1	3	3
					3
	ELECTIVE	THEORY	1	3	3
	CORE	THEORY	2	3	3
	CORE	THEORY			
1	CORE	THEORY	3	3	4
	COLL	IIIZORI			
	CORE	THEORY	3	3	3
1 2	CORE	THEORY	3	3	3
		+			4
	CORE	THEORY	3	3	
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	CORE	PRACTICAL	3	3	1
	CORE	THETETIE	3	3	
•	CORE	PRACTICAL	3	3	1
,	CORE	THETETIE	3	3	
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Goals	CORE	THEORY	4	3	2
TAMIL-IV	ELECTIVE	THEORY	1	4	3
			1	4	3
				· -	
	ELECTIVE	THEORY	1	4	3
					_
	CORE	THEORY	2	4	3
	CORE	THEORY	3	4	3
	CORE	THEORY	3		3
	CORE	THEORY	3	4	4
S					4
	CORE	THEORY	3	•	•
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	CORE	PRACTICAL	3	4	1
Practical -VIII (Modern			<i>3</i>	т	1
1 14040041 1111 (111040111					
Database Systems Lab) [Skill					
Database Systems Lab) [Skill Based]	CORE	PRACTICAI	3	4	1
Based]	CORE	PRACTICAL	3	4	1
Based] Skill Enhancement Course I -					
Based]	CORE	PRACTICAL THEORY	3 4	4	2
	TAMIL-IV HINDI-IV FRENCH - IV FRENCH LITERATURE & GRAMMAR - II Communicative English IV- English for Career R Programming for Data Analysis Modern Database Systems Data Communication and Networking Applied Statistics Practical -VII (R Programming for Data Analysis Lab) [Skill Based]	French-III ELECTIVE Communicative English III Developing English Language Skills Through Literature CORE Major Course Object Oriented Programming using Java CORE Major Course Relational Database Management Systems CORE Major Course Operating Systems CORE Linear Algebra (MA) CORE Major Course Practical -V (Object Oriented Programming using Java Lab) [Skill Based] CORE Major Course Practical -VI (RDBMS Lab) [Skill Based] CORE Ability Enhancement Compulsory Course II - Environmental Studies &Sustainable Development Goals CORE TAMIL-IV ELECTIVE FRENCH - IV FRENCH LITERATURE & GRAMMAR - II ELECTIVE FRENCH - IV FRENCH LITERATURE & GRAMMAR - II ELECTIVE R Programming for Data Analysis CORE Applied Statistics Practical -VII (R Programming for Data Analysis Lab) [Skill Based] CORE	French-III ELECTIVE THEORY Communicative English III Developing English Language Skills Through Literature CORE THEORY Major Course Object Oriented Programming using Java CORE THEORY Major Course Relational Database Management Systems CORE THEORY Major Course Operating Systems CORE THEORY Major Course Operating Systems CORE THEORY Linear Algebra (MA) CORE THEORY Major Course Practical -V (Object Oriented Programming using Java Lab) [Skill Based] CORE PRACTICAL Major Course Practical -VI (RDBMS Lab) [Skill Based] CORE PRACTICAL Ability Enhancement Compulsory Course II - Environmental Studies &Sustainable Development Goals CORE THEORY TAMIL-IV ELECTIVE THEORY HINDI-IV ELECTIVE THEORY FRENCH - IV FRENCH LITERATURE & GRAMMAR - II ELECTIVE THEORY FRENCH - IV FRENCH LITERATURE & GRAMMAR - II ELECTIVE THEORY R Programming for Data Analysis CORE THEORY Modern Database Systems Data Communication and Networking CORE THEORY Applied Statistics CORE THEORY Practical -VII (R Programming for Data Analysis Lab) [Skill Based] CORE PRACTICAL	French-III ELECTIVE THEORY 1 Communicative English III Developing English Language Skills Through Literature CORE THEORY 2 Major Course Object Oriented Programming using Java CORE THEORY 3 Major Course Relational Database Management Systems CORE THEORY 3 Major Course Operating Systems CORE THEORY 3 Linear Algebra (MA) CORE THEORY 3 Major Course Practical -V (Object Oriented Programming using Java Lab) [Skill Based] CORE PRACTICAL 3 Major Course Practical -VI (RDBMS Lab) [Skill Based] CORE PRACTICAL 3 Ability Enhancement Compulsory Course II - Environmental Studies & Sustainable Development Goals CORE THEORY 1 FRENCH - IV FRENCH LITERATURE & GRAMMAR - II ELECTIVE THEORY 1 Communicative English IV-English for Career CORE THEORY 2 R Programming for Data Analysis CORE THEORY 3 Applied Statistics CORE THEORY 3 Practical -VII (R Programming for Data Analysis Lab) [Skill Based] CORE THEORY 3 Practical -VII (R Programming for Data Analysis Lab) [Skill Based] CORE PRACTICAL 3	French-III ELECTIVE THEORY 1 3 Communicative English III Developing English Language Skills Through Literature CORE THEORY 2 3 Major Course Object Oriented Programming using Java CORE THEORY 3 3 Major Course Relational Database Management Systems CORE THEORY 3 3 Major Course Operating Systems CORE THEORY 3 3 Linear Algebra (MA) CORE THEORY 3 3 Major Course Practical -V (Object Oriented Programming using Java Lab) [Skill Based] CORE PRACTICAL 3 3 Major Course Practical -VI (RDBMS Lab) [Skill Based] CORE PRACTICAL 3 3 Ability Enhancement Compulsory Course II - Environmental Studies & Sustainable Development Goals CORE THEORY 4 3 TAMIL-IV ELECTIVE THEORY 1 4 HINDI-IV PRENCH - IV FRENCH LITERATURE & GRAMMAR - II ELECTIVE THEORY 1 4 PRENCH - IV FRENCH LITERATURE & GRAMMAR - II ELECTIVE THEORY 1 4 COmmunicative English IV- English for Career CORE THEORY 2 4 R Programming for Data Analysis CORE THEORY 3 4 Modern Database Systems CORE THEORY 3 4 Applied Statistics CORE THEORY 3 4 Applied Statistics CORE THEORY 3 4 Practical -VII (R Practical -VII (R Programming for Data Analysis Lab) [Skill Based] CORE PRACTICAL 3 4 Practical -VII (R Programming for Data Analysis Lab) [Skill Based] CORE PRACTICAL 3 4

	Discipline Specific Elective					
23CMU523A	Course - I: Cyber Security	ELECTIVE	THEORY	3	5	4
23CIVIO32311	Discipline Specific Elective	LLLCTIVE	THEORY	3	3	7
	Course - I: Mobile					
23ITU523	Computing	ELECTIVE	THEORY	3	5	4
2311 0323	Discipline Specific Elective	LLLCTIVE	THEORY	3	3	7
	Course - I: Business					
23CTU522	Intelligence	ELECTIVE	THEORY	3	5	4
23010322	Discipline Specific Elective	LLLCTIVE	THEORY	3	3	7
	Course - I: Natural Language					
23CAU523	Processing	ELECTIVE	THEORY	3	5	4
23CR0323	Discipline Specific Elective	LLLCTIVL	THEORY	3	3	
	Course - I: Software Project					
23DAU524	Management	ELECTIVE	THEORY	3	5	4
23DAU324	Discipline Specific Elective	ELECTIVE	THEORT	3	3	4
	Course - I:TCP/IP Protocol					
23NMB530	Suite	ELECTIVE	THEORY	3	5	4
23111111330	Major Course Mobile	ELECTIVE	THEORT	3	3	7
23DAU525	Application Development	CORE	THEORY	3	5	3
23DAU323	Major Course Machine	CORE	THEORT	3	<u> </u>	3
23DAU526	Learning	CORE	THEORY	3	5	3
23DAU320	Major Course PHP and	COKE	THEORT	3	3	3
23DAU527	MySQL Programming	CORE	THEORY	3	5	3
23DAU321	Major Course Predictive	CORE	THEORI	3	3	3
23DAU528	Analytics	CORE	THEORY	3	5	4
23DAU328	Major Course Practical -X	COKE	THEORT	3	3	4
	(Mobile Application					
	Development Lab) [Skill					
23DAU529	Based]	CORE	PRACTICAL	3	5	1
ZSDAOSZ	Major Course Practical -XI	CORL	TRACTICAL	3	3	1
	(Machine Learning Lab)					
23DAU530	[Skill Based]	CORE	PRACTICAL	3	5	1
23DA0330	Major Course Practical XII	CORL	TRACTICAL	3	3	1
	(PHP and MySQL					
	Programming Lab) [Skill					
23DAU531	Based]	CORE	PRACTICAL	3	5	1
23DAU532	Major Course Internship	CORE	TRAINING	3	5	3
23DAU332	Major Elective Course-II -	CORE	TRAINING	3	<u> </u>	3
23DAU634	Social Media Analytics	ELECTIVE	THEORY	3	6	4
23DAU034	Major Elective Course-II -	ELECTIVE	TILONI	3	U	+
23CMU633A	Healthcare Data Analytics	ELECTIVE	THEORY	3	6	4
23CM10033A	Major Elective Course-II -	ELECTIVE	TILUNI	3	U	4
23CTU634	Block Chain Technology	ELECTIVE	THEORY	3	6	4
23010034		ELECTIVE	TILUNI	3	U	4
221T11622	Major Elective Course-II -	ELECTIVE	THEODY	2	<i>c</i>	1
23ITU633	Network and System Security	ELECTIVE	THEORY	3	6	4
22CA11622	Major Elective Course-II - Robotics		THEODY	3	<i>c</i>	1
23CAU633		ELECTIVE	THEORY	3	6	4
22NIMD 620	Major Elective Course-II -		THEODY	2	<i>c</i>	1
23NMB639	Social Network Analysis	ELECTIVE	THEORY	3	6	4

23DAU635	Artificial Intelligence	CORE	THEORY	3	6	4
23DAU636	Mining of Massive Data	CORE	THEORY	3	6	4
23DAU637	Internet of Things	CORE	THEORY	3	6	4
	Practical-XII (Artificial					
23DAU638	Intelligence Lab)	CORE	PRACTICAL	3	6	2
	Practical-XIII (Mining of					
23DAU639	Massive Data Lab)	CORE	PRACTICAL	3	6	1
	Practical-XIV (Data Analysis					
23DAU640	and Visualization Lab)	CORE	PRACTICAL	3	6	1
23DAU641	Project	CORE	PROJECT	3	6	6