

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
22EU101N	Communicative English I Interpersonal Communication	CORE	THEORY	2	1	3
22DAU101N	Major Course - Structured Programming using C	CORE	THEORY	3	1	3
22DAU102N	Major Course Fundamentals of Digital Computers	CORE	THEORY	3	1	2
22DAU103N	Mathematical Foundation for Data Science (MA)	CORE	THEORY	3	1	3
22DAU104N	Practical -I (C Programming Lab) [Skill Based]	CORE	PRACTICAL	3	1	2
22DAU105N	Major Course Practical -II (Data Analysis using Excel Lab) [Skill Based]	CORE	PRACTICAL	3	1	2
22LAT202N	TAMIL-II	ELECTIVE	THEORY	1	2	3
22LAH202N	HINDI-II	ELECTIVE	THEORY	1	2	3
22LAF202N	FRENCH - II - FRENCH LANGUAGE & CULTURE - II	ELECTIVE	THEORY	1	2	3
22EU202N	Communicative English II- Academic Communication	CORE	THEORY	2	2	3
22DAU206N	Python for Data Analysis	CORE	THEORY	3	2	2
22DAU207N	Fundamentals of Data Structures	CORE	THEORY	3	2	2
22DAU208N	Discrete Structures and Graph Theory	CORE	THEORY	3	2	3
22DAU209N	Statistical Data Analysis	CORE	THEORY	3	2	3
22DAU210N	Practical -III (Python for Data Analysis Lab) [Skill Based]	CORE	PRACTICAL	3	2	1
22DAU211N	Practical -IV (Data Structures using Python Lab) [Skill Based]	CORE	PRACTICAL	3	2	1
23AECU201	Ability Enhancement Compulsory Course I - Values and Ethics for Human Excellence	CORE	THEORY	4	2	2
23PSEU201	Professional Skill Enhancement-I	CORE	THEORY	4	2	2
23LAT303N	Tamil-III	ELECTIVE	THEORY	1	3	3

23LAH303N	Hindi-III	ELECTIVE	THEORY	1	3	3
23LAF303N	French-III	ELECTIVE	THEORY	1	3	3
23EU303N	Communicative English III Developing English Language Skills Through Literature	CORE	THEORY	2	3	3
23DAU312N	Major Course Object Oriented Programming using Java	CORE	THEORY	3	3	4
23DAU313N	Major Course Relational Database Management Systems	CORE	THEORY	3	3	3
23DAU314N	Major Course Operating Systems	CORE	THEORY	3	3	3
23DAU315N	Linear Algebra (MA)	CORE	THEORY	3	3	4
23DAU316N	Major Course Practical -V (Object Oriented Programming using Java Lab) [Skill Based]	CORE	PRACTICAL	3	3	1
23DAU317N	Major Course Practical -VI (RDBMS Lab) [Skill Based]	CORE	PRACTICAL	3	3	1
22AECU302	Ability Enhancement Compulsory Course II - Environmental Studies & Sustainable Development Goals	CORE	THEORY	4	3	2
23LAT404N	TAMIL-IV	ELECTIVE	THEORY	1	4	3
23LAH404N	HINDI-IV	ELECTIVE	THEORY	1	4	3
23LAF404N	FRENCH - IV FRENCH LITERATURE & GRAMMAR - II	ELECTIVE	THEORY	1	4	3
23EU404N	Communicative English IV- English for Career	CORE	THEORY	2	4	3
23DAU418N	R Programming for Data Analysis	CORE	THEORY	3	4	3
23DAU419N	Modern Database Systems	CORE	THEORY	3	4	3
23DAU420	Data Communication and Networking	CORE	THEORY	3	4	4
23DAU421N	Applied Statistics	CORE	THEORY	3	4	4
23DAU422N	Practical -VII (R Programming for Data Analysis Lab) [Skill Based]	CORE	PRACTICAL	3	4	1
23DAU423N	Practical -VIII (Modern Database Systems Lab) [Skill Based]	CORE	PRACTICAL	3	4	1
22SECU401	Skill Enhancement Course I - Information Security	CORE	THEORY	4	4	2
22PSECU401	Professional Skill Enhancement-II	CORE	THEORY	4	4	2

23CMU523A	Discipline Specific Elective Course - I: Cyber Security	ELECTIVE	THEORY	3	5	4
23ITU523	Discipline Specific Elective Course - I: Mobile Computing	ELECTIVE	THEORY	3	5	4
23CTU522	Discipline Specific Elective Course - I: Business Intelligence	ELECTIVE	THEORY	3	5	4
23CAU523	Discipline Specific Elective Course - I: Natural Language Processing	ELECTIVE	THEORY	3	5	4
23DAU524	Discipline Specific Elective Course - I: Software Project Management	ELECTIVE	THEORY	3	5	4
23NMB530	Discipline Specific Elective Course - I: TCP/IP Protocol Suite	ELECTIVE	THEORY	3	5	4
23DAU525	Major Course Mobile Application Development	CORE	THEORY	3	5	3
23DAU526	Major Course Machine Learning	CORE	THEORY	3	5	3
23DAU527	Major Course PHP and MySQL Programming	CORE	THEORY	3	5	3
23DAU528	Major Course Predictive Analytics	CORE	THEORY	3	5	4
23DAU529	Major Course Practical -X (Mobile Application Development Lab) [Skill Based]	CORE	PRACTICAL	3	5	1
23DAU530	Major Course Practical -XI (Machine Learning Lab) [Skill Based]	CORE	PRACTICAL	3	5	1
23DAU531	Major Course Practical XII (PHP and MySQL Programming Lab) [Skill Based]	CORE	PRACTICAL	3	5	1
23DAU532	Major Course Internship	CORE	TRAINING	3	5	3
23DAU634	Major Elective Course-II - Social Media Analytics	ELECTIVE	THEORY	3	6	4
23CMU633A	Major Elective Course-II - Healthcare Data Analytics	ELECTIVE	THEORY	3	6	4
23CTU634	Major Elective Course-II - Block Chain Technology	ELECTIVE	THEORY	3	6	4
23ITU633	Major Elective Course-II - Network and System Security	ELECTIVE	THEORY	3	6	4
23CAU633	Major Elective Course-II - Robotics	ELECTIVE	THEORY	3	6	4
23NMB639	Major Elective Course-II - 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
23DAU638	Practical-XII (Artificial Intelligence Lab)	CORE	PRACTICAL	3	6	2
23DAU639	Practical-XIII (Mining of Massive Data Lab)	CORE	PRACTICAL	3	6	1
23DAU640	Practical-XIV (Data Analysis and Visualization Lab)	CORE	PRACTICAL	3	6	1
23DAU641	Project	CORE	PROJECT	3	6	6