

B.SC COMPUTER SCIENCE WITH DATA ANALYTICS PROGRAMME
SCHEME OF LEARNING AND EVALUATION
 (For the students admitted in the academic year 2025 – 2026 & onwards)
 Outcome Based Curriculum Framework with CBCS

Course Code	Course Title	Course Category	Course Type	Part Type	Lecture Hours	Tutorial Hours	Practical Hours	Course Credits	Max CA Marks	Max CE Marks	Total Marks
SEMESTER - I											
25LAT101	Tamil-I	ELECTIVE	THEORY	1	6	0	0	3	25	75	100
25LAH101	Hindi-I	ELECTIVE	THEORY	1	6	0	0	3	25	75	100
25LAF101	French-I: French Culture & Communication-I	ELECTIVE	THEORY	1	5	1	0	3	25	75	100
25EU101	Communicative English-I: Interpersonal Communication	CORE	THEORY	2	6	0	0	3	25	75	100
25DAU101	Programming and Problem Solving using C	CORE	THEORY	3	4	0	0	3	25	75	100
25DAU102	Digital Fundamentals and Computer Architecture	CORE	THEORY	3	4	0	0	3	25	75	100
25DAU103	Mathematical Foundation for Data Science	CORE	THEORY	3	4	0	0	3	25	75	100
25DAU104	Practical -I (C Programming Lab) [Skill Based]	CORE	PRACTICAL	3	0	0	3	2	40	60	100
25DAU105	Practical -II (Data Analysis & Visualization Lab) [Skill Based]	CORE	PRACTICAL	3	0	0	3	2	40	60	100
SEMESTER - II											
25LAT202	Tamil-II	ELECTIVE	THEORY	1	6	0	0	3	25	75	100
25LAH202	Hindi-II	ELECTIVE	THEORY	1	6	0	0	3	25	75	100
25LAF202	French-II: French Culture & Communication-II	ELECTIVE	THEORY	1	5	1	0	3	25	75	100
25EU202	Communicative English-II: Academic Communication	CORE	THEORY	2	4	0	0	3	25	75	100
25DAU206	Python Programming	CORE	THEORY	3	3	0	0	3	25	75	100
25DAU207	Data Structures and Algorithms	CORE	THEORY	3	3	0	0	3	100	0	100
25DAU208	Discrete Structures and Graph Theory	CORE	THEORY	3	4	0	0	3	25	75	100
25DAU209	Statistical Data Analysis	CORE	THEORY	3	3	1	0	3	25	75	100
25DAU210	Practical -III (Python Programming Lab) [Skill Based]	CORE	PRACTICAL	3	0	0	2	1	40	60	100
25DAU211	Practical -IV (Data Structures Lab) [Skill Based]	CORE	PRACTICAL	3	0	0	2	1	40	60	100
25AECU201	Ability Enhancement Compulsory Course-I: Values, Ethics, Health & Wellness for Human Excellence	CORE	THEORY	4	2	0	0	2	100	0	100
25PSEU201	Professional Skill Enhancement-I	CORE	THEORY	4	2	0	0	2	100	0	100
SEMESTER - III											
25LAT303A	Tamil III	ELECTIVE	THEORY	1	4	0	0	3	25	75	100
25LAH303A	Hindi-III	ELECTIVE	THEORY	1	4	0	0	3	25	75	100
25LAF303A	French-III	ELECTIVE	THEORY	1	4	0	0	3	25	75	100
25EU303A	Communicative English-III: Developing English Language Skills through Literature	CORE	THEORY	2	4	0	0	3	25	75	100
25DAU312	.Net Programming	CORE	THEORY	3	4	0	0	3	25	75	100
25DAU313	Relational Database Management Systems	CORE	THEORY	3	4	0	0	3	25	75	100
25DAU314	Operating Systems	CORE	THEORY	3	4	0	0	3	25	75	100
25DAU315	Applied Linear Algebra	CORE	THEORY	3	4	0	0	3	25	75	100
25DAU316	Practical -V (.Net Programming Lab) [Skill Based]	CORE	PRACTICAL	3	0	0	2	1	40	60	100
25DAU317	Practical -VI (RDBMS Lab) [Skill Based]	CORE	PRACTICAL	3	0	0	2	1	40	60	100
25AECU302	Ability Enhancement Compulsory Course-II: Environmental Studies & Sustainable Development Goals	CORE	THEORY	4	2	0	0	2	100	0	100

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SEMESTER - IV											
25LAT404A	Tamil - IV	ELECTIVE	THEORY	1	4	0	0	3	25	75	100
25LAH404A	Hindi-IV	ELECTIVE	THEORY	1	4	0	0	3	25	75	100
25LAF404A	French-IV	ELECTIVE	THEORY	1	4	0	0	3	25	75	100
25EU404	Communicative English-IV: English for Career	CORE	THEORY	2	4	0	0	3	25	75	100
25DAU418	Java Programming	CORE	THEORY	3	4	0	0	2	25	75	100
25DAU419	PHP Programming	CORE	THEORY	3	4	0	0	3	25	75	100
25DAU420	Applied Statistics	CORE	THEORY	3	3	1	0	4	25	75	100
25DAU421	Practical -VII (Java Programming Lab) [Skill Based]	CORE	PRACTICAL	3	0	0	3	2	40	60	100
25DAU422	Practical -VIII(PHP Programming Lab) [Skill Based]	CORE	PRACTICAL	3	0	0	3	1	40	60	100
25SECU401	Skill Enhancement Course-I: Information Security	CORE	THEORY	4	2	0	0	2	100	0	100
25PSEU402	Professional Skill Enhancement -II	CORE	THEORY	4	2	0	0	2	100	0	100
SEMESTER - V											
25CMU522A	Soft Computing	ELECTIVE	THEORY	3	4	0	0	4	25	75	100
25CMU522B	Client Server Technologies	ELECTIVE	THEORY	3	4	0	0	4	25	75	100
25ITU522	Mobile Computing	ELECTIVE	THEORY	3	4	0	0	4	25	75	100
25CTU524	Business Intelligence	ELECTIVE	THEORY	3	4	0	0	4	25	75	100
25CAU525	Natural Language Processing	ELECTIVE	THEORY	3	4	0	0	4	25	75	100
25AIU523	Generative Artificial Intelligence	ELECTIVE	THEORY	3	4	0	0	4	25	75	100
25NMB530/ 25NMU522	TCP / IP Protocol Suite	ELECTIVE	THEORY	3	4	0	0	4	25	75	100
25DAU523	Major Elective Course I - Predictive Analytics	ELECTIVE	THEORY	3	4	0	0	4	25	75	100
25DAU524	Web Technology	CORE	THEORY	3	3	1	0	2	25	75	100
25DAU525	Big Data Analytics	CORE	THEORY	3	4	0	0	3	25	75	100
25DAU526	Computer Networks	CORE	THEORY	3	4	0	0	3	25	75	100
25DAU527	Applied Cryptography	CORE	THEORY	3	4	0	0	3	100	0	100
25DAU528	Software Engineering and Software Project Management	CORE	THEORY	3	4	0	0	3	25	75	100
25DAU529	Practical -IX (Web Technology Lab) [Skill Based]	CORE	PRACTICAL	3	0	0	2	1	40	60	100
25DAU530	Practical - X (Big Data Analytics Lab) [Skill Based]	CORE	PRACTICAL	3	0	0	2	1	40	60	100
25DAU531	Internship	CORE	TRAINING	3	0	0	0	2	40	60	100
25DAU532	Trans Disciplinary Course	ELECTIVE	THEORY	3	2	0	0	2	100	0	100
SEMESTER - VI											
25CMU632A	Bioinformatics	ELECTIVE	THEORY	3	4	0	0	4	25	75	100
25CMU632B	Mining of Massive Data	ELECTIVE	THEORY	3	4	0	0	4	25	75	100
25ITU633	Network and System Security	ELECTIVE	THEORY	3	4	0	0	4	25	75	100
25CTU634	Block Chain Technology	ELECTIVE	THEORY	3	4	0	0	4	25	75	100
25CAU635	Digital Marketing	ELECTIVE	THEORY	3	4	0	0	4	25	75	100
25AIU633	Reinforcement Learning	ELECTIVE	THEORY	3	4	0	0	4	25	75	100
25NMB639 / 25NMU632	Social Network Analysis	ELECTIVE	THEORY	3	4	0	0	4	25	75	100

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25DAU633	Major Elective Course II - Multimedia Analytics	ELECTIVE	THEORY	3	4	0	0	4	25	75	100
25DAU634	Artificial Intelligence and Machine Learning	CORE	THEORY	3	5	0	0	3	25	75	100
25DAU635	Data Science	CORE	THEORY	3	4	0	0	4	25	75	100
25DAU636	Modern Database Systems	CORE	THEORY	3	4	0	0	4	25	75	100
25DAU637	Practical – XI – (Artificial Intelligence and Machine Learning Lab [Skill based])	CORE	PRACTICAL	3	0	0	3	2	40	60	100
25DAU638	Practical -XII (Data Science Lab) [Skill Based]	CORE	PRACTICAL	3	0	0	2	1	40	60	100
25DAU639	Practical - XIII (Modern Database Systems Lab) [Skill Based]	CORE	PRACTICAL	3	0	0	2	1	40	60	100
25DAU640	Project/Innovation/Start-up *	CORE	PROJECT	3	0	0	0	4	40	60	100
25PCSUDAU	Professional Competency Skill Research and Entrepreneurship Essentials	CORE	THEORY	4	2	0	0	2	100	0	100