

B.SC MATHEMATICS WITH COMPUTER APPLICATION 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
25MCU101	Calculus	CORE	THEORY	3	5	0	0	3	25	75	100
25MCU102	Ordinary Differential Equations and Laplace Transforms	CORE	THEORY	3	5	0	0	3	25	75	100
25MCU103	Accountancy - I	CORE	THEORY	3	6	0	0	5	25	75	100
25MCU103A	Physics - I	CORE	THEORY	3	4	0	0	4	20	50	70
25MCU104	Practical - I (MS Office) (Skill Based)	CORE	PRACTICAL	3	0	0	2	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
25MCU205	Analytical Geometry of 3D and Vector Calculus	CORE	THEORY	3	5	1	0	3	25	75	100
25MCU206	Programming in C	CORE	THEORY	3	4	0	0	3	25	75	100
25MCU207	Accountancy - II	CORE	THEORY	3	6	0	0	5	25	75	100
25MCU207A	Physics - II	CORE	THEORY	3	4	0	0	4	20	50	70
25MCU208	Practical - II - C Programming Practical (Skill Based)	CORE	PRACTICAL	3	0	0	2	2	40	60	100
25MCU209	Physics Practical (Skill Based)	CORE	PRACTICAL	3	0	0	2	2	20	40	60
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
25MCU310	Partial Differential Equations and Fourier Series	CORE	THEORY	3	5	0	0	3	25	75	100
25MCU311	Database Management Systems	CORE	THEORY	3	4	0	0	3	25	75	100
25MCU312	Number Theory	CORE	THEORY	3	5	0	0	3	100	0	100
25MCU313	Advanced Mathematical Statistics-I	CORE	THEORY	3	3	1	0	4	25	75	100
25MCU314	Practical III: Database Management Systems Practical(Skill Based)	CORE	PRACTICAL	3	0	0	2	2	40	60	100
25AECU302	Ability Enhancement Compulsory Course-II: Environmental Studies & Sustainable Development Goals	CORE	THEORY	4	2	0	0	2	100	0	100

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 - IV											
25LAT404	TAMIL-IV	ELECTIVE	THEORY	1	6	0	0	3	25	75	100
25LAH404	Hindi-IV	ELECTIVE	THEORY	1	6	0	0	3	25	75	100
25LAF404	French-IV	ELECTIVE	THEORY	1	6	0	0	3	25	75	100
25EU404	Communicative English-IV: English for Career	CORE	THEORY	2	4	0	0	3	25	75	100
25MCU415	Sequence, Series and Trigonometry	CORE	THEORY	3	5	0	0	3	25	75	100
25MCU416	Data Analytics with Python	CORE	THEORY	3	3	0	0	2	25	75	100
25MCU417	Numerical Methods with Scilab	CORE	THEORY	3	4	0	0	3	100	0	100
25MCU418	Advanced Mathematical Statistics-II	CORE	THEORY	3	3	1	0	4	25	75	100
25MCU419	Practical IV: Python Programming Practical (Skill Based)	CORE	PRACTICAL	3	0	0	2	2	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											
25MCU520A	Major Elective Course I - Astronomy	ELECTIVE	THEORY	3	4	1	0	4	25	75	100
25MCU520B	Major Elective Course I - Discrete Mathematics	ELECTIVE	THEORY	3	4	1	0	4	25	75	100
25MCU521	Abstract Algebra	CORE	THEORY	3	6	0	0	4	25	75	100
25MCU522	Real Analysis	CORE	THEORY	3	6	0	0	4	25	75	100
25MCU523	Mechanics	CORE	THEORY	3	5	0	0	3	100	0	100
25MCU524	Data Structures and Algorithms	CORE	THEORY	3	3	0	0	2	25	75	100
25MCU525	Practical V: Data Structures Practical(Skill Based)	CORE	PRACTICAL	3	0	0	3	2	40	60	100
25MCU526	Trans Disciplinary Course	ELECTIVE	THEORY	3	2	0	0	2	100	0	100
25SECU502	Skill Enhanceme Course-II: Indian Knowledge system (Computer Based Test)	CORE	THEORY	4	0	0	0	2	0	100	100
SEMESTER - VI											
25MCU627A	Major Elective Course-II Graph Theory	ELECTIVE	THEORY	3	4	1	0	4	25	75	100
25MCU627B	Major Elective Course-II Artificial Intelligence and Machine Learning	ELECTIVE	THEORY	3	4	1	0	4	25	75	100
25MCU628	Linear Algebra	CORE	THEORY	3	6	0	0	4	25	75	100
25MCU629	Complex Analysis	CORE	THEORY	3	6	0	0	4	25	75	100
25MCU630	Operations Research	CORE	THEORY	3	6	0	0	4	25	75	100
25MCU631	Java Programming	CORE	THEORY	3	3	0	0	2	25	75	100
25MCU632	Java Programming Practical(Skill Based)	CORE	PRACTICAL	3	0	0	2	2	40	60	100
25MCU633	Project	CORE	THEORY	3	0	0	0	4	40	60	100
25PCSUMCU	Professional Competency Skill - R Programming	CORE	THEORY	4	2	0	0	2	100	0	100