

B.SC BIOTECHNOLOGY 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
25BTU101	Cell Biology	CORE	THEORY	3	4	0	0	3	25	75	100
25BTU102	Analytical Techniques	CORE	THEORY	3	4	0	0	3	25	75	100
25BTU103	Chemistry of Biomolecules	CORE	THEORY	3	3	1	0	4	25	75	100
25BTU104	Practical - I Cell Biology & Analytical Techniques (Skill Based)	CORE	PRACTICAL	3	0	0	4	2	40	60	100
25BTU105	Biochemistry Practical (Skill Based)	CORE	PRACTICAL	3	0	0	2	1	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
25BTU206	Fundamentals of Microbiology	CORE	THEORY	3	3	1	0	3	25	75	100
25BTU207	Genetics	CORE	THEORY	3	4	0	0	3	25	75	100
25BTU208	Diagnostic Techniques	CORE	THEORY	3	3	0	0	3	100	0	100
25BTU209	Practical-II - Introduction to Microbiology and Genetics (Skill Based)	CORE	PRACTICAL	3	0	0	4	2	40	60	100
25BTU210	Diagnostic Techniques Practical (Skill Based)	CORE	PRACTICAL	3	0	0	3	2	100	0	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											
25LAT303	Tamil-III	ELECTIVE	THEORY	1	6	0	0	3	25	75	100
25LAH303	Hindi-III	ELECTIVE	THEORY	1	6	0	0	3	25	75	100
25LAF303	French-III	ELECTIVE	THEORY	1	6	0	0	3	25	75	100
25EU303	Communicative English-III: Developing English Language Skills through Literature	CORE	THEORY	2	6	0	0	3	25	75	100
25BTU311	Major Course- Metabolism	CORE	THEORY	3	4	0	0	3	25	75	100
25BTU312	Major Course- Molecular Biology	CORE	THEORY	3	4	0	0	3	25	75	100
25BTU313	Minor Course- Computer Applications in Biotechnology (CT)	CORE	THEORY/ PR	3	2	0	2	4	100	0	100
25BTU314	Practical III (Molecular Biology) (Skill Based)	CORE	PRACTICAL	3	0	0	4	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

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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
25BTU415	Immunology	CORE	THEORY	3	4	0	0	4	25	75	100
25BTU416	Recombinant DNA Technology	CORE	THEORY	3	4	0	0	4	25	75	100
25BTU417	Biostatistics	CORE	THEORY	3	3	1	0	4	25	75	100
25BTU418	Practical- IV (Immunology and rDNA) (Skill Based)	CORE	PRACTICAL	3	0	0	4	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											
25BTU519A	Major Elective Course- I-Industrial and Microbial Technology	ELECTIVE	THEORY	3	4	0	0	4	25	75	100
25BTU519B	Major Elective Course- I-Clinical Trial Management	ELECTIVE	THEORY	3	4	0	0	4	25	75	100
25BTU520	Enzyme Biotechnology	CORE	THEORY	3	4	0	0	3	25	75	100
25BTU521	Genomics and Proteomics	CORE	THEORY	3	5	0	0	3	25	75	100
25BTU522	Introduction to Practical Bioinformatics	CORE	THEORY	3	2	0	2	3	100	0	100
25BTU523	Environmental Biotechnology	CORE	THEORY	3	4	1	0	3	25	75	100
25BTU524	Practical- V (Environmental and Industrial Biotechnology Practical) (Skill based)	CORE	PRACTICAL	3	0	0	6	3	40	60	100
25BTU525	Internship	CORE	TRAINING	3	0	0	0	2	40	60	100
25BTU526	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											
25BTU627A	Major Elective Course- II-Plant Tissue Culture and Transgenic Technology	ELECTIVE	THEORY	3	4	0	0	4	25	75	100
25BTU627B	Major Elective Course- II-Allied Agro Technology	ELECTIVE	THEORY	3	4	0	0	4	25	75	100
25BTU628	Animal Biotechnology	CORE	THEORY	3	4	1	0	4	25	75	100
25BTU629	Biopharmaceuticals	CORE	THEORY	3	5	0	0	4	25	75	100
25BTU630	Applied Biotechnology, IPR and Bioethics	CORE	THEORY	3	4	0	0	3	25	75	100
25BTU631	Business Biotechnology	CORE	THEORY	3	3	1	0	3	25	75	100
25BTU632	Practical- VI (Plant and Animal Biotechnology Practical) (Skill Based)	CORE	PRACTICAL	3	0	0	6	3	40	60	100
25BTU633	Project /Innovation/ Startup	CORE	PROJECT	3	0	0	0	4	40	60	100
25PCSUBTU	PROFESSIONAL COMPETENCY SKILL- Clinical Data Management & Regulatory Compliance in the Pharmaceutical Industry	CORE	THEORY	4	2	0	0	2	100	0	100