

B.SC MICROBIOLOGY 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
25MBU101	FUNDAMENTALS OF MICROBIOLOGY	CORE	THEORY	3	4	0	0	3	25	75	100
25MBU102	PRINCIPLES OF MICROBIOLOGICAL METHODS	CORE	THEORY	3	4	0	0	3	25	75	100
25MBU103	INTRODUCTION TO WEB DESIGNING	CORE	THEORY	3	4	0	0	4	25	75	100
25MBU104	Introduction to Web Designing Practical (Skill Based)	CORE	PRACTICAL	3	0	0	2	2	40	60	100
25MBU208	Microbiology Practical-I (Skill Based)	CORE	PRACTICAL	3	0	0	4	0	0	0	0
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
25MBU205	MICROBIAL DIVERSITY AND TAXONOMY	CORE	THEORY	3	4	0	0	3	25	75	100
25MBU206	CELL BIOLOGY AND MICROBIAL GENETICS	CORE	THEORY	3	4	0	0	3	25	75	100
25MBU207	FUNDAMENTALS OF BIOCHEMISTRY	CORE	THEORY	3	4	0	0	4	25	75	100
25MBU208	Microbiology Practical-I (Skill Based)	CORE	PRACTICAL	3	0	0	4	3	40	60	100
25MBU209	Biochemistry Practical (Skill Based)	CORE	PRACTICAL	3	0	0	2	2	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											
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
25MBU310	Microbial Physiology and Metabolism	CORE	THEORY	3	4	0	0	4	25	75	100
25MBU311	Molecular Biology	CORE	THEORY	3	4	0	0	4	25	75	100
25MBU312	Chemistry for Microbiology (CH)	CORE	THEORY	3	4	0	0	3	25	75	100
25MBU416	Microbiology Practicals - II [Skill Based]	CORE	PRACTICAL	3	0	0	4	0	0	0	0
25AECU302	Ability Enhancement Compulsory Course-II: Environmental Studies & Sustainable Development Goals	CORE	THEORY	4	2	0	0	2	100	0	100
SEMESTER - IV											
25LAT404	TAMIL-IV	ELECTIVE	THEORY	1	6	0	0	3	25	75	100

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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
25MBU413	Bioinstrumentation	CORE	THEORY	3	4	0	0	3	25	75	100
25MBU414	Soil and Agricultural Microbiology	CORE	THEORY	3	4	0	0	3	25	75	100
25MBU415	Mathematics for Life Sciences (MA)	CORE	THEORY	3	4	0	0	3	25	75	100
25MBU416	Microbiology Practicals - II [Skill Based]	CORE	PRACTICAL	3	0	0	4	3	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											
25MBU517A	MAJOR ELECTIVE COURES - I Pharmaceutical Microbiology	CORE	THEORY	3	4	0	0	4	25	75	100
25MBU517B	MAJOR ELECTIVE COURES - I Principles of Good Laboratory practices	CORE	THEORY	3	4	0	0	4	25	75	100
25MBU518	Principles of Genetic Engineering and Recombinant DNA Technology	CORE	THEORY	3	4	0	0	4	25	75	100
25MBU519	Immunology and Immunotechnology	CORE	THEORY	3	4	0	0	4	25	75	100
25MBU520	Medical Microbiology	CORE	THEORY	3	5	0	0	4	25	75	100
25MBU521	Food and Dairy Microbiology	CORE	THEORY	3	4	0	0	3	25	75	100
25MBU629	Microbiology Practicals -III [Skill Based]	CORE	PRACTICAL	3	0	0	7	0	0	0	0
25MBU522	Internship	CORE	TRAINING	3	0	0	0	3	40	60	100
25MBU523	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											
25MBU624A	Biostatistics and Research Methodology	CORE	THEORY	3	4	0	0	4	25	75	100
25MBU624B	Quality Control in Clinical and Industrial Microbiology Laboratories	CORE	THEORY	3	4	0	0	4	25	75	100
25MBU625	Applied Biotechnology	CORE	THEORY	3	5	0	0	4	25	75	100
25MBU626	Industrial Microbiology	CORE	THEORY	3	4	0	0	3	25	75	100
25MBU627	Microbial Ecology	CORE	THEORY	3	4	0	0	3	25	75	100
25MBU628	Virology	CORE	THEORY	3	4	0	0	3	25	75	100
25MBU629	Microbiology Practicals -III [Skill Based]	CORE	PRACTICAL	3	0	0	7	5	40	60	100
25MBU630	Project /Innovation/ Startup	CORE	PROJECT	3	0	0	0	4	40	60	100
25PCSUMBU	PROFESSIONAL COMPETENCY SKILL- Organic Farming and Waste Management	CORE	THEORY	4	2	0	0	2	100	0	100