

**B.SC BIOCHEMISTRY 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
<b>SEMESTER - I</b>											
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
25BCU101	SUBCELLULAR BIOCHEMISTRY	CORE	THEORY	3	4	1	0	4	25	75	100
25BCU102	STRUCTURAL BIOCHEMISTRY	CORE	THEORY	3	4	1	0	5	25	75	100
25BCU103	GENERAL BIOLOGY	CORE	THEORY	3	3	1	0	4	25	75	100
25BCU104	BIOCHEMISTRY PRACTICAL-I (SKILL BASED)	CORE	PRACTICAL	3	0	0	2	1	40	60	100
25BCU105	BIOLOGY PRACTICAL (SKILL BASED)	CORE	PRACTICAL	3	0	0	2	1	40	60	100
<b>SEMESTER - II</b>											
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
25BCU206	Microbiology	CORE	THEORY	3	5	1	0	4	25	75	100
25BCU207	Enzymology	CORE	THEORY	3	5	1	0	5	25	75	100
25BCU208	Mathematics	CORE	THEORY	3	3	1	0	3	25	75	100
25BCU209	Biochemistry Practical II (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	0	2	0	2	100	0	100
25PSEU201	PROFESSIONAL SKILL ENHANCEMENT-I	CORE	THEORY	4	2	0	0	2	100	0	100
<b>SEMESTER - III</b>											
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
25BCU310	MOLECULAR BIOLOGY	CORE	THEORY	3	3	1	0	4	25	75	100
25BCU311	BIOCHEMICAL TECHNIQUES	CORE	THEORY	3	3	1	0	4	25	75	100
25BCU312	PHYSICS-I	CORE	THEORY	3	3	1	0	3	25	75	100
25COU416	BIOCHEMISTRY PRACTICAL-III (Skill Based)	CORE	PRACTICAL	3	0	0	2	0	0	0	0
25COU417	PHYSICS PRACTICAL (Skill Based)	CORE	PRACTICAL	3	0	0	2	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
<b>SEMESTER - IV</b>											
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
25BCU413	BASICS OF IMMUNOLOGY	CORE	THEORY	3	3	1	0	4	25	75	100
25BCU414	RECOMBINANT DNA TECHNOLOGY	CORE	THEORY	3	3	1	0	4	25	75	100
25BCU415	PHYSICS II	CORE	THEORY	3	3	1	0	3	25	75	100
25BCU416	BIOCHEMISTRY PRACTICAL-III (Skill Based)	CORE	PRACTICAL	3	0	0	2	1	40	60	100
25BCU417	PHYSICS 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	ELECTIVE	THEORY	4	2	0	0	2	100	0	100
<b>SEMESTER - V</b>											
25BCU518	Internship: ON JOB TRAINING	CORE	TRAINING	3	0	0	0	2	40	60	100
25BCU519	NANO BIOLOGY	CORE	THEORY	3	4	1	0	4	25	75	100
25BCU520	TISSUE CULTURE AND BIOTECHNOLOGY	CORE	THEORY	3	3	1	0	3	25	75	100
25BCU521	INTERMEDIARY METABOLISM	CORE	THEORY	3	4	1	0	4	25	75	100
25BCU522	COMPUTATIONAL TECHNIQUES IN BIOINFORMATICS	CORE	THEORY	3	3	1	0	3	25	75	100
25BCU523	BIOCHEMISTRY PRACTICAL - IV (Skill Based)	CORE	PRACTICAL	3	0	0	3	1	40	60	100
25BCU524	BIOCHEMISTRY PRACTICAL - V (Skill Based)	CORE	PRACTICAL	3	0	0	2	1	40	60	100
25BCU525A	MAJOR ELECTIVE COURSE I PHYSIOLOGY AND ENDOCRINOLOGY	ELECTIVE	THEORY	3	4	1	0	4	25	75	100
25BCU525B	MAJOR ELECTIVE COURSE I ENVIRONMENTAL BIOCHEMISTRY AND BEST PRACTICES	ELECTIVE	THEORY	3	4	1	0	4	25	75	100
25BCU526	TRANS DISCIPLINARY COURSE	ELECTIVE	THEORY	3	2	0	0	2	100	0	100
25SECU502	SKILL ENHANCEMENT COURSE-II: INDIAN KNOWLEDGE SYSTEM [COMPUTER BASED TEST]	CORE	THEORY	4	0	0	0	2	0	100	100
<b>SEMESTER - VI</b>											
25BCU627	PLANT BIOCHEMISTRY	CORE	THEORY	3	5	1	0	4	25	75	100
25BCU628	CLINICAL BIOCHEMISTRY	CORE	THEORY	3	5	1	0	4	25	75	100
25BCU629	CELL - A MOLECULAR APPROACH	CORE	THEORY	3	5	1	0	4	25	75	100
25BCU630	BIOCHEMISTRY PRACTICAL VI (SKILL BASED)	CORE	PRACTICAL	3	0	0	6	3	40	60	100
25BCU631A	MAJOR ELECTIVE COURSE - II PHARMACOKINETICS AND CLINICAL TRIALS	ELECTIVE	THEORY	3	3	1	0	4	25	75	100
25BCU631B	MAJOR ELECTIVE COURSE - II NEUROCHEMISTRY	ELECTIVE	THEORY	3	3	1	0	4	25	75	100
25BCU632	PROJECT/INNOVATION/START-UP	CORE	PROJECT	3	0	0	0	4	40	60	100
25PCSUBCU	PROFESSIONAL COMPETENCY SKILL - PROFICIENCY IN BIORESEARCH AND EMPLOYABILITY	CORE	THEORY	4	2	0	0	2	100	0	100