

B.SC PHYSICS 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
25PHU101	Astrophysics and Indian Space Science	CORE	THEORY	3	5	0	0	4	25	75	100
25PHU102	Properties of Matter and Sound	CORE	THEORY	3	4	0	0	4	25	75	100
25PHU103	Mathematics I for physics	CORE	THEORY	3	6	0	0	5	25	75	100
25PHU207	Physics Practical – I (Skill Based)	CORE	PRACTICAL	3	0	0	3	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
25PHU204	Thermal and Statistical Physics	CORE	THEORY	3	4	1	0	4	25	75	100
25PHU205	Mechanics and fluid dynamics	CORE	THEORY	3	4	0	0	4	25	75	100
25PHU206	Mathematics II for Physics	CORE	THEORY	3	6	0	0	4	25	75	100
25PHU207	Physics Practical – I (Skill Based)	CORE	PRACTICAL	3	0	0	3	2	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
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
25PHU308	Electricity and Magnetism	CORE	THEORY	3	4	0	0	3	25	75	100
25PHU309	Atomic and Molecular Physics	CORE	THEORY	3	3	0	0	3	25	75	100
25PHU310	Chemistry- I	CORE	THEORY	3	4	0	0	4	25	75	100
25PHU415	Chemistry 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
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

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
25EU404	COMMUNICATIVE ENGLISH-IV: ENGLISH FOR CAREER	CORE	THEORY	2	4	0	0	3	25	75	100
25PHU411	Optics	CORE	THEORY	3	4	0	0	3	25	75	100
25PHU412	Electronic Instrumentation	CORE	THEORY	3	3	0	0	3	25	75	100
25PHU413	Chemistry - II	CORE	THEORY	3	4	0	0	3	25	75	100
25PHU414	Physics Practical – II (Skill Based)	CORE	PRACTICAL	3	0	0	3	2	40	60	100
25PHU415	Chemistry 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											
25PHU516	Quantum Mechanics & Relativity	CORE	THEORY	3	5	0	0	4	25	75	100
25PHU517	Mathematical Physics	CORE	THEORY	3	6	0	0	5	25	75	100
25PHU518	Principles of Digital Electronics	CORE	THEORY	3	5	0	0	4	25	75	100
25PHU519A	MAJOR ELECTIVE COURSE - I Semiconductor Electronics	ELECTIVE	THEORY	3	6	0	0	4	25	75	100
25PHU519B	MAJOR ELECTIVE COURSE - I BIOMEDICAL INSTRUMENTATION	ELECTIVE	THEORY	3	6	0	0	4	25	75	100
25PHU520	Project Work(Group)/innovation/Start up	CORE	PROJECT	3	0	0	0	4	40	60	100
25PHU626	Physics Practical - III (Skill Based)	CORE	PRACTICAL	3	0	0	3	0	0	0	0
25PHU627	Physics Practical - IV (Skill Based)	CORE	PRACTICAL	3	0	0	3	0	0	0	0
25PHU521	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
SEMESTER - VI											
25PHU622	Nuclear Physics	CORE	THEORY	3	6	0	0	5	25	75	100
25PHU623	Materials Science	CORE	THEORY	3	5	0	0	5	25	75	100
25PHU624	Microprocessor Architecture and Programming	CORE	THEORY	3	5	0	0	5	25	75	100
25PHU625A	Major Elective Course - II OPTOELECTRONICS	ELECTIVE	THEORY	3	6	0	0	4	25	75	100
25PHU625B	Major Elective Course - II BIO NANO PHYSICS	ELECTIVE	THEORY	3	6	0	0	4	25	75	100
25PHU626	Physics Practical - III (Skill Based)	CORE	PRACTICAL	3	0	0	3	4	40	60	100
25PHU627	Physics Practical - IV (Skill Based)	CORE	PRACTICAL	3	0	0	3	4	40	60	100
25PCSUPHU	Professional Competency Skill - Photo Voltaic Systems - Installation & Maintenance	CORE	THEORY	4	2	0	0	2	100	0	100