

Bachelor of Science (B.Sc.) – Physics, Chemistry & Biology (PCB)

Duration: 3 Years (6 Semesters)

Program Type: Undergraduate Degree Program

Total Credits: Approximately 140–150 Credits (varies by university)

Year 1 – Semester I

Subject Code	Subject Name
PHY101	Mechanics and Properties of Matter
PHY102P	Physics Practical-I
CHE101	Inorganic Chemistry-I
CHE102P	Chemistry Practical-I
BIO101	Cell Biology and Diversity of Life
BIO102P	Biology Practical-I
ENG101	English Communication Skills
AECC101	Environmental Studies

Year 1 – Semester II

Subject Code	Subject Name
PHY201	Electricity and Magnetism
PHY202P	Physics Practical-II
CHE201	Organic Chemistry-I
CHE202P	Chemistry Practical-II
BIO201	Genetics and Evolution
BIO202P	Biology Practical-II
ENG201	Technical Communication
SEC201	Computer Applications

Year 2 – Semester III

Subject Code	Subject Name
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Subject Code	Subject Name
PHY301	Thermodynamics and Statistical Physics
PHY302P	Physics Practical-III
CHE301	Physical Chemistry-I
CHE302P	Chemistry Practical-III
BIO301	Plant Physiology
BIO302P	Biology Practical-III
SEC301	Analytical Techniques
VAC301	Value Added Course

Year 2 – Semester IV

Subject Code	Subject Name
PHY401	Optics
PHY402P	Physics Practical-IV
CHE401	Organic Chemistry-II
CHE402P	Chemistry Practical-IV
BIO401	Animal Physiology
BIO402P	Biology Practical-IV
SEC401	Scientific Computing
VAC401	Research Ethics

Year 3 – Semester V

Subject Code	Subject Name
PHY501	Quantum Mechanics
PHY502P	Physics Practical-V
CHE501	Inorganic Chemistry-II
CHE502P	Chemistry Practical-V
BIO501	Molecular Biology
BIO502P	Biology Practical-V
DSE501	Biostatistics
DSE502	Instrumentation Techniques

Year 3 – Semester VI

Subject Code	Subject Name
PHY601	Nuclear and Atomic Physics
PHY602P	Physics Practical-VI
CHE601	Physical Chemistry-II
CHE602P	Chemistry Practical-VI
BIO601	Biotechnology and Microbiology
BIO602P	Biology Practical-VI
PROJ601	Project Work / Dissertation
VIVA601	Viva Voce