

Bachelor of Science (B.Sc.) in Physics, Chemistry & Mathematics (PCM)

Duration: 3 Years (6 Semesters)

Program Type: Undergraduate Degree Program

Credits: 140–150 (Varies by University)

Note: Subject codes may vary by university. The following is a standard university-style syllabus with sample subject codes.

Semester I

Subject Code	Subject Name
PHY101	Mechanics and Properties of Matter
PHY102P	Physics Practical-I
CHE101	Inorganic Chemistry-I
CHE102P	Chemistry Practical-I
MAT101	Differential Calculus
MAT102	Algebra
AECC101	English Communication Skills

Semester II

Subject Code	Subject Name
PHY201	Electricity and Magnetism
PHY202P	Physics Practical-II
CHE201	Organic Chemistry-I
CHE202P	Chemistry Practical-II
MAT201	Integral Calculus
MAT202	Differential Equations
AECC102	Environmental Studies

Semester III

Subject Code	Subject Name
PHY301	Waves and Optics
PHY302P	Physics Practical-III
CHE301	Physical Chemistry-I
CHE302P	Chemistry Practical-III
MAT301	Vector Calculus
MAT302	Linear Algebra
SEC301	Computer Applications

Semester IV

Subject Code	Subject Name
PHY401	Thermal Physics
PHY402P	Physics Practical-IV
CHE401	Organic Chemistry-II
CHE402P	Chemistry Practical-IV
MAT401	Real Analysis
MAT402	Numerical Methods
SEC401	Scientific Computing

Semester V

Subject Code	Subject Name
PHY501	Quantum Mechanics
PHY502P	Physics Practical-V
CHE501	Inorganic Chemistry-II
CHE502P	Chemistry Practical-V
MAT501	Complex Analysis
MAT502	Abstract Algebra
DSE501	Research Methodology

Semester VI

Subject Code	Subject Name
PHY601	Nuclear and Particle Physics
PHY602P	Physics Practical-VI
CHE601	Physical Chemistry-II
CHE602P	Chemistry Practical-VI
MAT601	Mathematical Physics
MAT602	Probability and Statistics
DSE601	Project Work / Dissertation