

Bachelor of Science (B.Sc.) – PCB

Duration: 3 Years (6 Semesters)

Eligibility: 10+2 (PCB)

Semester – I

Subject
Physics – I (Mechanics & Properties of Matter)
Chemistry – I (Inorganic Chemistry)
Botany – I (Plant Diversity)
Physics Practical – I
Chemistry Practical – I
Botany Practical – I

Course Details:

This semester introduces basic concepts of mechanics, atomic structure, chemical bonding, and plant diversity along with elementary laboratory skills.

Semester – II

Subject
Physics – II (Electricity & Magnetism)
Chemistry – II (Organic Chemistry – I)
Zoology – I (Animal Diversity)
Physics Practical – II
Chemistry Practical – II
Zoology Practical – I

Course Details:

Students study electricity, magnetism, organic compounds, and animal classification with practical exposure to laboratory experiments.

Semester – III

Subject
Physics – III (Thermodynamics & Waves)
Chemistry – III (Physical Chemistry – I)
Botany – II (Plant Anatomy & Physiology)
Physics Practical – III
Chemistry Practical – III
Botany Practical – II

Course Details:

Focus on heat, thermodynamics, chemical kinetics, and plant physiological processes supported by detailed practical work.

Semester – IV

Subject
Physics – IV (Optics & Modern Physics)
Chemistry – IV (Organic Chemistry – II)
Zoology – II (Cell Biology & Genetics)
Physics Practical – IV
Chemistry Practical – IV
Zoology Practical – II

Course Details:

Covers optics, atomic physics, genetics, and molecular biology, forming a strong base for advanced biological sciences.

Semester – V

Subject
Physics – V (Quantum Mechanics)
Chemistry – V (Inorganic Chemistry – II)

Subject
Botany – III (Ecology & Plant Biotechnology)
Physics Practical – V
Chemistry Practical – V
Botany Practical – III

Course Details:

Advanced topics include quantum theory, coordination chemistry, ecology, and biotechnology preparing students for research and applied fields.

Semester – VI

Subject
Physics – VI (Solid State / Nuclear Physics)
Chemistry – VI (Physical Chemistry – II)
Zoology – III (Evolution, Biotechnology & Environmental Biology)
Physics Practical – VI
Chemistry Practical – VI
Zoology Practical – III

Course Details:

Final semester emphasizes applied and interdisciplinary subjects with strong laboratory training for professional readiness.

Scheme of Examination

- **Theory:** 70 Marks
- **Practical:** 30 Marks