

Programmes

Bachelor of Science (General) in Physics, Chemistry, and Mathematics (PCM)

Course Intensity: Full Time Programme

Duration: 3 years

About the programme:

Program overview B. Sc. in Physics, Chemistry and Mathematics (PCM) program is designed to inculcate students in learning about fundamental laws and principles of Physics, Chemistry and Mathematics. This program offers variety of courses of Physics, Chemistry and Mathematics. Along with that, interdisciplinary courses like AI and its applications, communication skill, computer programming like C++ and Python, etc. are the part of curriculum. Some extracurricular courses like Vocational Courses, 'First Aid and Health', 'Physical Education and Yoga' are also the part of curriculum to provide additional skills to the students. Also, some advanced laboratories of physics, chemistry and computational methods enable students to get the better practical training. Some electives are offered to students which will help them to choose a field of specialization for higher study to become more competent and confident in their professional career.

Eligibility: XIIth with Science with minimum 50% marks with Mathematics as one of the subjects.

Tuition fee per annum: 50000

Exam fee per annum: 15000

Programme Objectives (POs):

1. PO1: Demonstrate the comprehensive knowledge of Physics, chemistry and Mathematics.
2. PO2: Develop the ability to evaluate theories, methods, principles and applications of physical sciences.
3. PO3: Identify, formulate and resolve the emerging challenges based on design experiment, data interpretation and analysis of results.
4. PO4: Design a system, component, or methods to meet desired needs within realistic constraints such as environmental, health, safety, manufacturability, and sustainability.
5. PO5: Develop the skills in using modern tools for design and analysis of scientific and societal problems.
6. PO6: Work in teams on multi-disciplinary projects in research organizations and industries and present the report in a full scientific approach with professional ethics.
7. PO7: Build up communication skills, both written and oral, to specialized and non-specialized audiences.
8. PO8: Develop the ability to critically evaluate theories, methods, principles, and applications of pure and applied science in multidisciplinary domain with the lifelong learning approach.

Programme Specific Outcomes (PSOs):

PSO1: Acquire industrial exposure and scientific knowledge through industry internship and research-based learning.

Programme Educational Objectives (PEOs):

1. PEO1: Be successful professionals in Academia, Industry, Government and Entrepreneurship.
2. PEO2: Graduates shall pursue higher education/research at institute of national and international repute.
3. PEO3: Effectively address the challenges of the society and undertake the projects for bridging the gap between industry and societal needs.

Program Structure:

<https://drive.google.com/drive/u/1/folders/1cmdYynl7HMH2wzrapvzF4rJNfhDo-Bn1>