

FDP in Physics

Programme Outcome

The department of Physics offers First Degree Programme in Physics with the latest re-structured Syllabus - 2018. Course outcome (CO) , program outcome (PO), and program specific outcome (PSO) with reference to the syllabus laid down by the University of Kerala is discussed and planned by the department. Realization of these intended learning outcomes is important to evaluate the academic progress and overall learning of the students.

The First Degree Programme in Physics has a number of specific, expected outcomes which include the fundamental and in-depth knowledge on the subject, promoting analytic and observational skills, developing aptitude for higher studies and research and setting a stage for employment . The programme aims to provide a solid foundation in all aspects of physics and to develop mathematical, experimental and computational skills of students.

Course Outcome

Connecting theoretical knowledge to practical life skills and the capability to manifest is an integral part of course outcome. The FDP programme includes a number of core courses with wide range of topics from almost all areas of physics including Mathematical Physics, Basic Mechanics, Quantum Physics, Solid State Physics, Nuclear and Particle Physics, Atomic and Molecular Spectroscopic Methods, Computational Physics, Basic and digital Electronics and also C-Programming Language. Moreover Practical courses with more than 60 experiments are also included to develop their experimental skills. By the end of all the courses, the student is expected to have understanding of core physics, independent laboratory skills and project skills. Assignments and seminars are also suggested in each course so as to motivate them to explore more knowledge and to present their knowledge in front of a group of audience.

Programme Specific Outcome

Programme specific outcomes are often assessed based on indicators such as analysis of progression of students to higher studies and employment which includes admission to prestigious institutes for higher education, performance in PG Entrance Exams of various Universities, JAM, Civil Services and other competitive examinations. The core courses are designed in such a way as to place the students in higher PG courses and hence to science research.

An orientation is conducted at the department level for the newly admitted students to introduce them about these programme specific outcome and the methods to attain it. Students are also made aware of various academic opportunities available for them after the successful completion of the course. Students are facilitated with reference text books, e-resources, supplementary study materials and other resources which enable them to achieve these outcomes.