

## **Learning outcome of B.Sc programme curriculum in Physics**

The objective of framing this course is to bridge the gap between the plus two and post graduate levels of Physics by providing a more complete and logical framework in almost all fields of Physics.

The purpose of teaching this syllabus is to empower the students to acquire engineering skills and practical knowledge which will be of great help to students in their day today life. Since electricity and electrodynamics play a key role in the development of modern technological world.

This course will provide a theoretical basis for performing experiments in related areas and cater the basic requirements for their higher studies. The main objective of this course is to provide students with mathematical skills which will be of great help to them in solving various problems in respective fields of Physics.

Goal of framing the syllabus is to make students aware of the physical world and understanding connectivity of Physics with other disciplines and to develop experimental, computational and mathematical skills of students. Our aim is to provide an intellectually stimulating environment to develop skills and enhance the capabilities of the students to the best of their potential.

By the end of B.Sc. programme, the students would be expected to achieve a common level in basic mechanics, electricity, magnetism and a secure foundation in vector algebra along with various related Theorems. Students are also expected to become proficient in Thermodynamics, Basics Electronics, Mathematical Physics and Statistical physics with related laws.

Moreover, Students are also supposed to acquire great deal of knowledge about Waves and Quantum Optics with related laws and Practicals. In the final year of their course students are expected to acquire profound knowledge about Quantum Mechanics, Atomic and Nuclear Physics along with Electronics and Solid State Physics.

Students will be able to read, understand and interpret physical information – verbal, mathematical and graphical. They must have developed their experimental and data analysis skills through experiments at Laboratories. They will be able to perform experiments and interpret the results of observation, including making an assessment of experimental uncertainties. They would be in a position to use information communication technology to gather knowledge at will.