

Department of Nanoscience and Advanced Materials

Saurashtra University, Rajkot

Programme Outcome

B.Sc. / M.Sc. (Applied Physics) programme started in June 2016 in Department of Nanoscience and Advanced Materials, Saurashtra University, Rajkot, is a unique FIVE years programme having dual degree (B. Sc. / M. Sc.) opportunity for the benefit of students. This programme is designed to fulfil the requirement of manpower development needed for teaching Physics and Applied Physics at various levels of study and also for the creation of new trained manpower required for ceramic, composite and materials related industries of the Saurashtra and Gujarat state. In addition, the programme will benefit the students of Saurashtra and Gujarat state, to undertake Applied Physics, Nanoscience and Nanotechnology as the way of life.

Course Outcome

Under the B.Sc. / M.Sc. (Applied Physics) programme, the students have to undergo various courses during TEN semester duration.

Applied Physics – I and II courses at semesters- I and II level are helpful for understanding the basic concepts in Physics for applications.

Modern Physics – I and II courses at semesters- II and III are highly useful for students to gain knowledge about the latest development in Modern Physics of 20th Century.

Also, courses, such as, Plasma Physics and Electrodynamics and Applied Nuclear Physics at semesters III and IV are useful for the latest knowledge in the field of Nuclear energy generation and Fusion technology.

Courses on Nanoscience and Nanotechnology, Material Science are useful for the students to know about the industrial and medical applications of various materials.

At M.Sc. (Applied Physics) semesters VII and VIII level, students are exposed to Applied Materials and Application course and course on Mathematical Methods in Physics, which are very useful for shaping their career as good physics researcher.

In addition, students undertake experimental projects at semester V and VI (i.e. B.Sc. III year) on various aspects of Applied Physics. This helps them in getting trained in practical understanding of the subject.