

Minor in Physics

The theories in physics are all-pervading and their applications are found in varied branches of engineering and sciences. The minor in Physics aims to introduce the student to fundamental theories in physics. The core courses cover the basics and by choosing from the large pool of electives, the student will be able to pursue to a deeper level the areas of her/his interest. This minor would equip the students with the skill and knowledge which will help them in gaining insights in their own primary area of study.

Courses and Units

Required

5 courses (min)

15 units (min)

Core

Course No. Course Title L P U

PHY F212 Electromagnetic Theory - I 3 0 3

PHY F242 Quantum Mechanics - I 3 0 3

PHY F312 Statistical Mechanics 3 0 3

Electives

(minimum

of 2 courses

and 6 units)

PHY F213 Optics 3 0 3

PHY F215 Introduction to Astronomy and
Astrophysics 3 0 3

PHY F241 Electromagnetic Theory - II 3 1 4

PHY F243 Mathematical Methods of Physics 3 0 3

PHY F211 Classical Mechanics 3 1 4

PHY F311 Quantum Mechanics - II 3 0 3

PHY F313 Computational Physics 3 0 3

PHY F315 Theory of Relativity 3 0 3

PHY F341 Solid State Physics 3 0 3

PHY F342 Atomic and Molecular Physics 3 0 3

PHY F343 Nuclear and Particle Physics 3 0 3

PHY F418 Lasers and Applications 3 1 4

BITS F386 Quantum Information and Computing 3 0 3

BITS F316 Nonlinear Dynamics and Chaos 3 0 3

PHY F426 Physics of Semiconductors Devices 3 1 4

PHY F427 Atmospheric Physics 3 0 3

PHY F214 Electricity Magnetism and Optics Lab 0 2 2

PHY F244 Modern Physics Lab 0 2 2