



UP201 Aug 2:1

Introductory Physics III

Instructor

VBShenoy

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Teaching Assistant

Email:

Department: Physics

Course Time: MW 11:00AM to 12:00noon

Lecture venue: F12

Detailed Course Page: <https://piazza.com/iisc.ernet.in/fall2017/up201/home>

Announcements

Brief description of the course

This is the final course in the series of introductory physics (core) courses for undergraduates at IISc. The course covers a variety of topics usually called "modern physics"

Prerequisites

UP101, UP102

Syllabus

Introductory discussions of Thermodynamics, Quantum Mechanics, Atomic Physics, Solids, Special Relativity, Nuclear and Particle Physics and Astrophysics.

Course outcomes

The aim of the course is to survey topics that are usually covered under the title "modern physics". Topics selected include thermal physics, special theory of relativity, introductory quantum physics, molecular/solid state physics, nuclear/particle physics, and cosmology. These topics will be treated in a way so as to give a flavor of open problems and challenges in physics to a newcomer.

Grading policy

65% Theory, 35% Lab

Assignments

Assignments will be posted on the course website

Resources

Servey and Jewett