



PEN205
MODERN PHYSICS

Student Presentations

Some of the presentation subjects are given below.

Students are asked to select one of them and prepare a 10 min.s ppt show at the end of the term

Working principles and usage areas of Michelson Interferometer
Scanning Tunnelling Microscope
X-Rays and applications
Lasers and their applications
Electromagnetic Radiation: definition, how each region interacts with matter,
Semiconductors: working principles and their applications
Superconductors: working principles and their applications
Working Principles and types of nuclear reactors
Radioactivity
Particle Accelerators and Detectors
Experimental and theoretical methods in material characterization
Medical Applications of Modern Physics
Devices/applications whose working principle is based on Heisenberg Uncertainty Principle
Devices/applications whose working principle is based on Photoelectric Effect