

# SEMESTER –II

## Physical Science

MLD - Electronics in Everyday Life  
45 hours)

(3 credits -

This course aims to introduce a non-specialist student to the world of digital and smart devices thenanoscience and nanotechnology behind it, all covering the following topics (45 Lectures Total).

- Binary system of numbers.
- Difference between analog and digital systems of electronics.
- Concepts of memory (bits, bytes, speed).
- Different digital devices: desktops, tablets, laptops, flash drives, printers, scanners(components operation and communication).
- Introduction to sensors.
- Smart devices: Touch and voice-enabled devices (such as phones, tablets, ATMs, etc.).
- Technologies of inter-device communication.
- Innovative applications, societal impact, and barriers to implementation.
- Future electronic devices.
- Introduction to nanoscience and nanotechnology