

FIRST YEAR

Electronic Physics II	COE107
Prerequisite : COE104	(2-2-1-0)

Diode Circuit Applications: Rectifiers, zener diodes voltage regulators, clipping circuits, clamping circuits and waveform generation. Other Types of Semiconductor Diodes: Varactor diode, tunnel diode, photodiode and photovoltaic (solar) cell, Light Emitting diode, principle and operation of semiconductor laser, semiconductor diode. Transistor biasing: junction transistors (PNP, NPN), current profiles across the junctions, transistor biasing, Field Effect Transistors (FET).