UNIT - 1

- MOSFET
- CMOS
- Full wave
- Half wave
- IV characteristics of diode
- Common Emitter, Common Base Configuration (Input and Output Characteristics)
- Zenor diode as a voltage regulator
- BJT as a switch
- CE-RC coupled amplifier.

Problems on full wave, half wave, Alpha Beta ic, ib related problems, Zener current.

UNIT -2

•Inverting and Non Inverting Amplifier

•Comparator any one out of 4

•integrator, voltage follower

•RC phase shift oscillator

•Negative voltage series feedback

•IC 555

Problems on Colpit ,Hartly, Voltage Adder, IC Ocillator, IC 555, Non inverting, Inverting.

UNIT - 3

- Elements of embedded systems
- Frequency reuse, capacity of cluster
- Modulation
- Difference microprocessor microcontroller
- Basic elements of communication system
- Communication channel-wired and wireless
- Noise
- Sensor and actuator, Optocoupler