EE206 – Electronics-I

Syllabus:

BJT operation; Biasing techniques for stabilizing Q-point, in BJTs; BJT equivalent circuits: h–Parameter model, π- model and Ebers-Moll model; FET operation; Biasing techniques for stabilizing Q-point, in FETS; FET equivalent circuits; Constant current source and level shifter; Single and multi-stage amplifiers; Power amplifier: class A, class B and class C amplifier; Tuned amplifier; SCR & UJT; Logic gates design; IC fabrication.

References

1. *"Microelectronics" By: Jacob Millman*
2. *"Microelectronics" By: Jacob Millman & Grebal*
3. *"Microelectronic Circuits" By: A. S. Sedra & K. C. Smith*
4. *"Electronic Circuits-design and integrated" By: D. Schilling and C. Belove*
5. *"Microelectronics: Circuit Analysis and Design" By: Donald A. Neamen*