

Approval: OTA in 2nd Convocation Meeting

Course No.: EE-677

Course Name : Analog Circuit Design

Credits: 3

Course Outline:

- Review of integrated circuit device characteristics & models
- Review of elementary 1 transistor amplifiers
- Two transistor amplifiers
- Current Mirrors, active loads
- Output Stages
- Operational Amplifiers
- Frequency Response of Integrated Circuits
- Feedback techniques for Integrated Circuits
- Frequency Response & Stability of Feedback Amplifiers
- Differential Operational Amplifiers
- Voltage and Current References (optional)
- Review of the practical application of an OPAMP in e.g. filter
- Other Topics: Noise, non-linearity, mismatch, MOS vs Bipolar