

Course Syllabus

Course Code and Name	EE 26333 – Analog and Digital Electronic Circuits
Credit and contact hours	3 (2, 1, 1) (Lecture, Tutorial, Lab)
Required or Elective	Required
Level / Year	Level (6) / Year (3)
Course Prerequisite	EE 26222 Electric Circuits-1 EE 26231 Fundamental of Electronic Devices
Textbook	Sedra and K. Smith, Microelectronic Circuits, Oxford University Press, 2009.
Course Description	This course cover the following topics: Review of basic BJT amplifiers - Feedback Amplifiers - Multistage amplifiers - Operational Amplifiers (Op-Amps) - Analog building blocks using Op-Amps - Determination of type and order of the filter needed to meet the specifications - External characteristics of Op-Amps - Operation and design of linear analog circuits using Op-Amps - Nonlinear OP-AMP circuits - Digital-to-analog and analog-to-digital converters - Digital ICs - Digital Circuits
Brief List of Topics to be Covered	<ol style="list-style-type: none"> 1- Introduction to optical communication 2- Review of basic BJT amplifiers 3- Feedback Amplifiers 4- Multistage amplifiers 5- Operational Amplifiers (Op-Amps) 6- Analog building blocks using Op-Amps. 7- Determination of type and order of the filter needed to meet the specifications 8- External characteristics of Op-Amps 9- Operation and design of linear analog circuits using Op-Amps 10- Nonlinear OP-AMP circuits 11- Digital-to-analog and analog-to-digital converters 12- Digital ICs 13- Digital Circuits
Course is prerequisite for	-