

Global Learning Semesters

Course Syllabus

Course: EENG-250 Electronics II

Department: Engineering

Host Institution: Intercollege, Nicosia, Cyprus



Course Summary		
Course Code	Course Title	Recommended Credit Hours
EENG-250	Electronics II	3
Semester Offered	Contact Hours	Prerequisites
Fall, Spring	42	EENG-240 Electronics I. An introduction to the fundamental concepts of electronic devices and Circuits from a dc viewpoint.
Department	Level of Course	Language of Instruction
Engineering	Lower Division	English

Course Description

Fundamental concepts of electronic devices and circuits from an ac viewpoint. Use of electronic devices as system building blocks. Topics include small signal amplifiers, multistage amplifiers, low and high frequency response, differential and operational amplifiers, current mirrors, comparators, oscillators. Utilization of the computer as a design tool.

Instructor

Ms. Maria Vraka

Course Aims and Objectives

To develop the ability to analyze and design analog electronic circuits.

Teaching Methods

The course is delivered through lectures.

Course Teaching Hours

The course is 42 hours long and is delivered in 14 weeks (3 hours/week).

Evaluation and Grading

Homework/Attendance: 10%
Test I: 25%
Test II: 25%
Final Exam: 40%

Readings and Resources

Required Textbook

Theodore F. Bogart, Jr., Jeffrey S. Beasley and Guillermo Rico, Electronic Devices and Circuits, Fifth Edition, Prentice Hall, 2001

Recommended Readings

- Adel S. Sedra and Kenneth C. Smith, Microelectronic Circuits, Fourth Edition, Oxford University Press, 1998
- Donald L. Schilling and Charles Belove, Electronic Circuits, Third Edition, McGraw Hill, 1989