

Global Learning Semesters

Course Syllabus

Course: EENG-241 Electronics I Lab

Department: Engineering

Host Institution: Intercollege, Nicosia, Cyprus



Course Summary		
Course Code	Course Title	Recommended Credit Hours
EENG-241	Electronics I Lab	1.5
Semester Offered	Contact Hours	Prerequisites
Fall, Spring	42	EENG-121 Network Analysis I Lab. Introduction to electrical measurement techniques and Instrumentation, experimental analysis of basic electrical circuits.
Department	Level of Course	Language of Instruction
Engineering	Lower Division	English

Course Description

A laboratory in basic electronics to accompany the Electronics I lecture course. Selected experiments dealing with electronic device theory and applications. Topic areas include diode characteristics, large and small signal diode circuits, clipping circuits, rectifiers, BJT transistor bias circuits (CE, CB, CC), JFET bias circuits.

Instructor

Ms. Maria Vraka

Course Aims and Objectives

Experiments on analysis and construction of basic electronic circuits at the diode and transistor levels. Emphasis is on analog electronics.

Teaching Methods

The course is delivered through laboratory experiments.

Course Teaching Hours

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

Evaluation and Grading

Lab reports: 35%
Lab performance: 25%
Final Exam: 40%

Readings and Resources

Recommended Readings

- Theodore F. Bogart, Jr. and James W. Brown, Sr., Experiments in Electronic Devices and Circuits, Fifth Edition, Prentice Hall, 2001
- Theodore F. Bogart, Jr., Jeffrey S. Beasley and Guillermo Rico, Electronic Devices and Circuits, Fifth Edition, Prentice Hall, 2001