Global Learning Semesters
Course Syllabus
Course: EENG-240 Electronics I
Department: Engineering
Host Institution: Intercollege, Nicosia, Cyprus

Course Summary		
Course Code	**Course Title**	**Recommended Credit Hours**
EENG-240	Electronics I	3
Semester Offered	**Contact Hours**	**Prerequisites**
Fall, Spring	42	EENG-120 Network Analysis I. Fundamentals of electrical laws, theorems and methods of analysis.
Department	**Level of Course**	**Language of Instruction**
Engineering	Lower Division	English

Course Description

An introduction to the fundamental concepts of electronic devices and circuits mainly from a dc viewpoint. Topics include semiconductor theory, diodes, rectifiers, bipolar junction transistors, field effect transistors, basic transistor configurations (CE, CB, CC, CS, CD, CG). Utilization of the computer as a design tool.

Instructor

Ms. Maria Vraka

Course Aims and Objectives

To develop an understanding of the physical mechanisms governing the operation of electronic devices such as the diode and the transistor.

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