

Global Learning Semesters

Course Syllabus

Course: EENG-131A Electric Circuits II Lab

Department: Engineering

Host Institution: Intercollege, Nicosia, Cyprus



Course Summary		
Course Code	Course Title	Recommended Credit Hours
EENG-131A	Electric Circuits II Lab	1.5
Semester Offered	Contact Hours	Prerequisites
Fall, Spring	42	EENG-121A Electric Circuits I Lab. Introduction to instrumentation and measurement techniques.
Department	Level of Course	Language of Instruction
Engineering	Lower Division	English

Course Description

The course complements the lecture course EENG-130A. It seeks to further elaborate on electronic measurement techniques and instrumentation, and help the future engineer develop an understanding of test equipment while stressing its use, application and maintenance. Furthermore, the course improves students' ability to present experimental results and findings in a proper format of a scientific report. Topic areas include instrumentation, circuit designing on prototype boards, measuring methods, error detection and analysis, safety precautions, experimental analysis of the associated theoretical course. In addition, computer simulation and methods are introduced for the student to become familiar with the application of computer techniques to the analysis of the experimental data.

Instructor

Mr. Andreas Serghiou

Course Aims and Objectives

The course aims to allow the student to perform experiments for the understanding of analysis techniques used in ac networks.

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: 20%

Lab Performance:	20%
Project	20%
Final Exam:	40%

Readings and Resources

Required Textbook

Boylestad and Kousourou, Experiments in Circuit Analysis to Accompany Introductory Circuit Analysis, Ninth Edition, Prentice Hall, 2000

Recommended Reading

Stanley Wolf, Guide to Electronic Measurements and Laboratory Practice, Prentice Hall, 1983