

Global Learning Semesters

Course Syllabus

Course: EENG-121A Electric Circuits I Lab

Department: Engineering

Host Institution: Intercollege, Nicosia, Cyprus



| Course Summary | | |
|------------------|-------------------------|--------------------------|
| Course Code | Course Title | Recommended Credit Hours |
| EENG-121A | Electric Circuits I Lab | 1.5 |
| Semester Offered | Contact Hours | Prerequisites |
| Fall, Spring | 42 | None |
| Department | Level of Course | Language of Instruction |
| Engineering | Lower Division | English |

Course Description

The course complements the lecture course EENG-120A. It seeks to bridge the gap between the idealized situations presented in the class and the real world of the laboratory and introduce the student to the fundamentals of electronic measurement techniques and instrumentation. In addition, it helps the future engineer develop an understanding of test equipment while stressing its use, application, and maintenance. Finally, it teaches the student how to present experimental results and findings in a proper format of scientific report. Topic areas include instrumentation, measuring methods, error detection and analysis, safety precautions, and experimental analysis of the associated theoretical course

Instructor

Mr. Andreas Serghiou

Course Aims and Objectives

To allow students to experiment on the basic electrical concepts, theorems, and techniques and introducing the student to the fundamentals of electronic measurement techniques and instrumentation.

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: 30%
Lab Performance: 30%
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