

Global Learning Semesters

Course Syllabus

Course: EENG-251 Electronics II Lab

Department: Engineering

Host Institution: Intercollege, Nicosia, Cyprus



| Course Summary | | |
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| Course Code | Course Title | Recommended Credit Hours |
| EENG-251 | Electronics II Lab | 1.5 |
| Semester Offered | Contact Hours | Prerequisites |
| Fall, Spring | 42 | EENG-241 Electronics I Lab. A laboratory emphasizing on diode circuit applications as well as BJT/FET transistor bias circuits. |
| Department | Level of Course | Language of Instruction |
| Engineering | Lower Division | English |

Course Description

A laboratory in analog electronics to accompany the Electronics II lecture course. Selected experiments dealing with electronic device theory and applications. Students gain practical knowledge of small signal amplifiers, multistage amplifiers, differential and operational amplifiers, comparators, oscillators. Design of a multi-transistor circuit.

Instructor

Ms. Maria Vraka

Course Aims and Objectives

Experiments on analysis and construction of ac transistor circuits. Emphasis 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

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| Lab reports: | 35% |
| Lab performance: | 20% |
| Project: | 10% |
| Final Exam: | 35% |

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