

Alanya Alaaddin Keykubat University | Rafet Kayış Faculty of Engineering
Electrical-Electronics Engineering Department
 2023-2024 Fall Semester

Syllabus

Code/Name	EEE 206 / Electronic Circuits Laboratory
Type	Required
Credit/ECTS	4/4
Hour per Week	4
Level/Year	Undergraduate/2
Semester	spring
Classroom	A103
Content	BJT and Mosfet characterisation. Dc characteristics of operational amplifier. Ac characteristic of transistor circuits. Operation of Rectifiers and Regulators.
Prerequisites	None
Textbooks	<i>Primary</i> J. David Irwin, Basic Engineering Circuit Analysis, 10th ed. John Wiley <i>Supplementary</i> J.W. Nilsson, S.A. Riedel, Electric Circuits, 9th. Ed., Prentice Hall.
Objectives	<ul style="list-style-type: none"> • To get hand on experience on electronic components. • To be able to lay out, wire and troubleshoot electronic circuits • To be able to carry out basic measurements
Course Outcomes	In this course you will be able to: CO1 Use ammeter, voltmeter and oscilloscope CO2 Carry out the experiments by following the instructions given in laboratory manual CO3 Analyze and comment on the experimental data CO4 Prepare reports including the measurement results, their analysis and comments

Weekly Schedule of Topics

W	Topic
1	Introducing the laboratory
2	Oscilloscop usage
3-5	Characterisation of BJT and MOSFET.
6-8	Transistor Amplifier Circuits
9-10	Linear Applications of OPAMPS
11-12	Non-linear Applications of OPAMPS
13	Logic Gates and Binary Circuits:
14	PSPICE presentation.

Contribution to Program Outcomes*

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO1	5	5	1	5	0	5	1	3	1	3	0
CO2	5	5	1	4	0	5	4	3	4	3	0
CO3	5	5	3	5	2	5	1	3	1	3	0
CO4	5	4	3	5	0	5	2	3	1	4	0

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* Contribution Level | 0: None | 1: Very Low | 2: Low | 3: Medium | 4: High | 5: Very High

Requirements	Basic knowledge of Electromagnetic Field Theory		
Course Policy	<ul style="list-style-type: none">• Be in the class on time.• English should always be used to communicate with one another.• At least 70% attendance is required, otherwise a grade of DZ will be assigned.		
Cheating & Plagiarism	<ul style="list-style-type: none">• Copying or letting someone copy your work on exams, assignments, or reports is cheating.• Cutting and pasting text, figures and tables from web sources or any other electronic source is plagiarism.• The consequence of academic dishonesty is to receive a grade of FF for the course.		
Evaluation	Midterm		40%
	Final Exam		60%
	Total		100%

Instructor

Name/Surname	Fikri Serdar Gökhan	Email	serdar.gokhan@alanya.edu.tr
Room	209	Office Hours	W 11.30-12.30 F 13.30-14.30

Prepared by Akın Uslu on June 10th, 2024.