

TOROS ÜNİVERSİTESİ

Faculty Of Engineering
Computer And Software Engineering

Course Information

FUNDAMENTALS OF ELECTRONICS					
Code	Semester	Theoretical	Practice	National Credit	ECTS Credit
		Hour / Week			
CSE255	Fall	2	2	3	3

Prerequisites and co-requisites	None
Language of instruction	English
Type	Required
Level of Course	Bachelor's
Lecturer	Asst. Prof. Ziya Gökalp ALTUN
Mode of Delivery	Face to Face
Suggested Subject	None
Professional practise (internship)	None
Objectives of the Course	With this course, students will be able to draw electronic circuits by the program and make operations of process of printed circuits.
Contents of the Course	Structure and Types of Diodes, Rectifier Circuits Definition and Types of filters, Definition and Types of Regülelerin ,Definition of the transistor, Structure and Types Using the switching element as Transistörün Using the element as a transistor amplifier Using the element as a transistor amplifier JFET'in Definition, Structure and Types. Using the amplifier as the switching element MOSFET Definition, Structure and Types. Using the amplifier as the switching element As the Use of Operational Amplifiers and Amplifier Eviren Using the amplifier as inverting Operational Amplifier Audience and Use of Voltage Operational Amplifier as a Differential Amplifier Using Operational Amplifier as a Collector Using Operational Amplifier as a Comparator

Learning Outcomes of Course

#	Learning Outcomes
1	
2	
3	
4	
5	

Course Syllabus

#	Subjects	Teaching Methods and Technics
1	Structure and Types of Diodes, Rectifier Circuits	Lecture, discussion
2	Definition and Types of filters	Lecture, discussion
3	Definition and Types of Regülelerin	Lecture, discussion
4	Definition of the transistor, Structure and Types	Lecture, discussion
5	Use of transistor as the switching element	Lecture, discussion
6	Using the element as a transistor amplifier	Lecture, discussion
7	Midterm Exam	Exam

8	As the Use of Operational Amplifiers and Amplifier Eviren	Lecture, discussion
9	Using the amplifier as inverting Operational Amplifier	Lecture, discussion
10	Audience and Use of Voltage Operational Amplifier as a Differential Amplifier	Lecture, discussion
11	Using Operational Amplifier as a Collector	Lecture, discussion
12	Using Operational Amplifier as a Comparator	Lecture, discussion
13	Using Operational Amplifier as a Comparator	Lecture, discussion
14		
15		
16	Final Exam	Exam

Course Syllabus

#	Material / Resources	Information About Resources	Reference / Recommended Resources
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Method of Assessment

#	Weight	Work Type	Work Title
1	40%	Mid-Term Exam	Mid-Term Exam
2	60%	Final Exam	Final Exam

Relationship between Learning Outcomes of Course and Program Outcomes

#	Learning Outcomes	Program Outcomes	Method of Assessment
1		2,3	1,2
2		2,3	1,2
3		2,3	1,2
4		2,3	1,2
5		2,3	1,2

PS. The numbers, which are shown in the column Method of Assessment, presents the methods shown in the previous table, titled as Method of Assessment.

Work Load Details

#	Type of Work	Quantity	Time (Hour)	Work Load
1	Course Duration	14	4	56
2	Course Duration Except Class (Preliminary Study, Enhancement)	14	2	28
3	Presentation and Seminar Preparation	0	0	0
4	Web Research, Library and Archival Work	0	0	0
5	Document/Information Listing	0	0	0
6	Workshop	0	0	0
7	Preparation for Midterm Exam	1	1	1
8	Midterm Exam	1	1	1
9	Quiz	0	0	0
10	Homework	0	0	0
11	Midterm Project	0	0	0
12	Midterm Exercise	0	0	0
13	Final Project	0	0	0
14	Final Exercise	0	0	0
15	Preparation for Final Exam	1	3	3

16	Final Exam	1	1	1
				90