



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Basic Electronics							
Course Code		ETO183		Course Level		Short Cycle (Associate's Degree)			
ECTS Credit	2	Workload	50 (<i>Hours</i>)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		With this course, the student will be able to recognize the basic elements of electronic circuits and can make circuits and compare the input and output signals.							
Course Content		1-phase rectification with diodes, 3-phase rectification with diodes, Setting up filter circuits, Using transit as a switching element, Establishing regulated circuits, Transistor amplified circuits, Operational amplified circuits.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Experiment, Demonstration, Problem Solving					
Name of Lecturer(s)									

Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	70

Recommended or Required Reading

1	Course notes
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Week	Weekly Detailed Course Contents	
1	Theoretical	1 Phase Rectifier Diode
2	Theoretical	1 Phase Rectifier Diode
3	Theoretical	3-Phase Rectifier Diode
4	Theoretical	3-Phase Rectifier Diode
5	Theoretical	Filter Circuits
6	Theoretical	Filter Circuits
7	Theoretical	Filter Circuits
8	Theoretical	Use of Transit as Switching Component
9	Theoretical	Midterm
10	Theoretical	Use of Transit as Switching Component
11	Theoretical	Establishing regulated Circuits
12	Theoretical	Establishing regulated Circuits
13	Theoretical	Transistor Amplifier Circuits
14	Theoretical	Transistor Amplifier Circuits
15	Theoretical	Semester final exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Lecture - Practice	10	0	1	10
Assignment	1	0	2	2
Individual Work	1	0	8	8
Midterm Examination	1	0	1	1
Final Examination	1	0	1	1
Total Workload (Hours)				50
[Total Workload (Hours) / 25*] = ECTS				2

*25 hour workload is accepted as 1 ECTS



Learning Outcomes

1	To establish a 1-phase rectifier circuit with diode
2	To establish a 3-phase rectifier circuit with diode
3	Diode filter circuits can be installed
4	Transistörlü anahtarlama ve regüle devreleri kurabilmek
5	Yükselteç devreleri kurmak

