



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Basic Digital Elektronik							
Course Code		ETO185		Couse Level		Short Cycle (Associate's Degree)			
ECTS Credit	2	Workload	50 (Hours)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		In this course; basic logic circuits, logic circuit simplification methods, logic circuits can be obtained, electrical equivalents can be obtained, making a solution to a given application problem, to gain the knowledge and skills to set up the necessary circuitry is aimed.							
Course Content		Boolean Mathematics, Karnough Mapping, Deriving and simplifying a logic function of a problem, Problems of a problem, Problems of logic circuits, Logic functions, creating a time diagram, establishing and operating a logic circuit of a problem.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), 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	Number Systems
2	Theoretical	Number Systems
3	Theoretical	Logic Gate Circuits
4	Theoretical	Family of Integrated Circuits and Specifications
5	Theoretical	Circuit drawing from Logic Functions
6	Theoretical	Finding a drawn Circuit Logic Functions
7	Theoretical	With Logic Electrical Circuits Between Conversions
8	Theoretical	Boolean Algebra
9	Theoretical	Midterm
10	Theoretical	Karnaugh map
11	Theoretical	Karnaugh map
12	Theoretical	Removing and to simplify a problem of logic functions
13	Theoretical	Removing and to simplify a problem of logic functions
14	Theoretical	Create a Problem Time Charts
15	Theoretical	Semester final exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Assignment	10	0	1	10
Individual Work	10	0	1	10
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	Recognize number systems.
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2	Knows the logic door circuits.
3	Establish basic logic circuits
4	Simplify logic circuits
5	Solving logic problems and setting up and running circuits

