



## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Basic Electrical Knowledge							
Course Code		ELT182		Course Level		Short Cycle (Associate's Degree)			
ECTS Credit	2	Workload	50 (Hours)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		To gain proficiency in basic electrical knowledge.							
Course Content		Definitions of electricity, direct current, alternating current, definitions of electrical circuit, basic electrical measurements, electrical installation information and description of electrical materials, basic electrical connections,							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Demonstration, Individual Study, 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	M.E.B. Devlet Kitapları Elektrik Bilgisi ( Ali Özdemir )
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Week	Weekly Detailed Course Contents	
1	Theoretical	Definitions of electricity
2	Theoretical	Definition of direct current and alternating current
3	Theoretical	Definition of current, voltage, power
4	Theoretical	Definition of ohmic, inductive and capacitive loads
5	Theoretical	Series, parallel and complex circuits
6	Theoretical	Series, parallel and complex circuits
7	Theoretical	Basic electrical measurements
8	Theoretical	Phase, neutral, protection, earth and zeroing conductors
9	Intermediate Exam	Midterm Examination
10	Theoretical	Conductors and cables used in electrical installation
11	Theoretical	Materials used in electrical installations
12	Theoretical	Lighting devices and types
13	Theoretical	Plugs and types
14	Theoretical	Basic electrical connections
15	Theoretical	Basic electrical failures and elimination
16	Final Exam	Final Examination

### Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Assignment	2	0	5	10
Midterm Examination	1	5	1	6
Final Examination	1	5	1	6
Total Workload (Hours)				50
[Total Workload (Hours) / 25*] = ECTS				2

\*25 hour workload is accepted as 1 ECTS



**Learning Outcomes**

1	Learning electrical information
2	To measure electrical measurement
3	To recognize the electrical equipment materials
4	Making basic electrical connections
5	

**Programme Outcomes (Construction Technology)**

1	Being able to have professional knowledge and skills as a result of being supported by the application on vocational qualifications gained in secondary education
2	To choose and use building materials
3	Building installations can be done
4	Applying concrete technology
5	Construction of roads
6	To be able to make professional computer applications
7	Technical drawings
8	Making professional drawing
9	Bidding and contracting
10	To be able to organize the site
11	Control and documentation of manufacturing
12	Can make application of building repair and strengthening works
13	To be able to determine soil types and make soil tests
14	Can control water supply and transmission activities
15	Making waste treatment facilities for polluting resources
16	Projecting of construction elements
17	Being able to make a professional project
18	Make land measurements
19	To be able to make professional practices

**Contribution of Learning Outcomes to Programme Outcomes** 1:Very Low, 2:Low, 3:Medium, 4:High, 5:Very High

	L1
P1	4
P2	4
P3	4
P4	4
P5	4
P6	4
P7	4
P8	4
P9	4
P10	4
P11	4
P12	4
P13	4
P14	4
P15	4
P16	4
P17	4
P18	4
P19	4

