



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 (*Office Management and Executive Assistantship*)

1	The ability of using information and communication tools and the other vocational tools and techniques.
2	The ability of planning and applying vocational process.
3	The ability of communicating in foreign language.
4	The ability of vocational self-confidence.
5	The ability of entrepreneurship.
6	The ability of using theoretical field information at the practice.
7	The ability of managing a process that provides the needs.
8	The ability of working in groups including interdisciplinary.
9	The ability of defining problems and solving them in vocational practice.
10	The awareness of vocational ethic and responsibility.
11	The awareness of necessity of life-long learning and the ability to make come true this.
12	The ability of having information about sectoral problems.
13	The ability of understanding vocational legal regulation and applying.
14	The ability of having an effective communication.
15	Social, cultural and social responsibilities of the grip, and the ability to apply to adopt.

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

	L1	L2	L3	L4	L5
P1	4				4
P6		4	4	4	

