AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title	Building Electrical Installation								
Course Code	ELT183		Couse Level	Short Cycle (Associate's Degree)					
ECTS Credit	2	Workload	50 *(Hours)*	Theory	2	Practice	0	Laboratory	0
Objectives of the Course	The aim of this lesson is to gain knowledge and skills to apply low current, lighting and high current installation circuits.								
Course Content	1. Conductors and Insulators 2. Cable installating materials 3. Low current materials 4. Electric circuit and types 5. Low current system application circuits 6. Lighting and power outlet circuit elements 7. Making high current installations 8. To make heat shrink termination fitting 9. Attracting underground power cable								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Project Based Study								
Name of Lecturer(s)	Lec. Taner AKBAŞ								

Assessment Methods and Criteria		
Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	70

Recommended or Required Reading	
1	Aydınlatma Tekniği - Prof.Dr.Muzaffer ÖZKAYA.
2	Elektrik Şebeke ve Tesisleri, Mahmut NACAR.

Week	Weekly Detailed Course Contents	
1	Theoretical	Conductors and Insulators
2	Theoretical	Cable Installating Materials
3	Theoretical	Low Current Materials
4	Theoretical	Electric Circuit and Types
5	Theoretical	Low Current System Application Circuits
6	Theoretical	Low Current System Application Circuits
7	Theoretical	Lighting and Power Outlet Circuit Elements
8	Theoretical	Lighting and Power Outlet Circuit Elements
9	Intermediate Exam	Midterm Examination
10	Theoretical	Lighting and Power Outlet Circuit Elements
11	Theoretical	Making High Current Installations
12	Theoretical	Making High Current Installations
13	Theoretical	Making High Current Installations
14	Theoretical	To Make Heat Shrink Termination Fitting

15	Theoretical	Attracting Underground Power Cable
16	Final Exam	Final Examination

Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Assignment	10	0	2	20
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	Select low current installation materials
2	Apply low current circuits
3	Select lighting installation materials
4	Apply lighting installation circuits
5	Select high current installation materials and apply circuits

Programme Outcomes *(Machinery)*	
1	To be able to know general properties and usage areas of industrial materials and make selection.
2	Design of machine elements.
3	To be able to make production using machining and welding machines without machining.
4	To be able to make measurement and quality control processes with machine tools for measuring and control equipment.
5	To be able to make necessary corrections in order to determine the mistakes by using the necessary non-destructive test methods in welded parts and to eliminate these mistakes.
6	Preventive measures to prevent the occurrence of these faults by preliminarily determining the faults that will occur in the machines as statistical data and to make necessary interventions in case of breakdown.
7	They can make drawings of work pieces on CAD station and apply them on CNC looms. Ability to operate and use CAD / CAM and AUTOCAD package programs.
8	To be able to transfer engineering science and technology to practice by making calculations in the direction of scientific principles.
9	It can repair the elements in pneumatic and hydraulic systems which are indispensable elements of automatic control systems and can regulate their work.
10	The student who is trained as a machine technician during the whole program knows that industrial task definition in the field of work is error finding, problem solving, decision making, planning of functions and activities and they can be achieved by aiming to acquire these characteristics.

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

	L1	L2	L3	L4	L5
P10	1	1	1	1	1