

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title	Electrical Installation Plans						
Course Code	ELE272	Couse Leve	evel Short Cycle (Associate's Degree)				
ECTS Credit 6	Workload 150 (Hours)	Theory	3	Practice	1	Laboratory	0
Objectives of the Course	es of the Course In the basement of the boiler room and ground floor shops, which is at least 3 times different from the storey apartment building a different electrical installation project in accordance with regulations and course to ensure that each student to draw and make all the calculations related to the project.					m the 5- and	
Course Content	1/50 scale electrical interior installation project. Electrical interior installation. Regulation of Electrical Internal Facilities. Switch and socket types. Electrical interior installation materials. High current and low current single line and open diagrams. Strong current column diagram. Table loading ruler. Calculation of voltage drop. Insurance and section selection.						
Work Placement	N/A						
Planned Learning Activities and Teaching Methods		Explanation	(Presentat	ion), Demonst	tration, Projec	t Based Study	
Name of Lecturer(s)							

Assessment Methods and Criteria

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

Recommended or Required Reading

1	Lighting Technique - Prof.Dr.Muzaffer ÖZKAYA.
2	Electricity Network and Facilities, Mahmut NACAR.

Week	Weekly Detailed Course Contents				
1	Theoretical	The characteristics of the 1/50 scale architectural practice project which should be provided, information on the materials to be purchased			
2	Theoretical	Classification of electrical internal installation, realization of electrical internal installation in the construction of a building			
3	Theoretical	Switch and socket types and working principles, drawing of single line and open schematics			
4	Theoretical	Introduction of electrical interior installation materials			
5	Theoretical	Important articles of the Electrical Internal Facilities Regulation			
6	Theoretical	Drawing of the electrical interior installation project of the ground floor of an example apartment building			
7	Theoretical	Drawing of the electrical floor installation project of the normal floor of an example apartment			
8	Theoretical	Drawing of the electrical internal installation project of the basement of an example apartment			
9	Theoretical	Project control			
10	Practice	Drawing of strong current and weak current column diagrams			
11	Theoretical	Project control			
12	Theoretical	Drawing of strong flow column diagram, preparation of table loading table			
13	Theoretical	Insurance selection, selection of wire section, calculation of voltage drop			
14	Theoretical	Voltage drop problems			

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	1	3	56
Lecture - Practice	14	1	2	42
Assignment	7	2	2	28
Midterm Examination	1	10	2	12



-		
		Form

Final Examination	1		10	2	12
	Total Workload (Hours)				
	[Total Workload (Hours) / 25*] = ECTS				6
*25 hour workload is accepted as 1 ECTS					

Learning	Outcomes
_oung	o atoomoo

Learn	ing Outcomes
1	To provide a 1/50 scale architectural practice project
2	To know how to install electrical installation in a building
3	To draw the electrical internal installation project of a building
4	To recognize electrical installation materials
5	To be able to draw single line diagrams of high current and weak current
6	Preparing table loading table
7	Calculation of voltage drop

Programme Outcomes (Electrics)

-	
1	ABILITY TO MAKE APPLICATIONS OF MEASUREMENT AND CALCULATION
2	ABILITY TO MAKE CONNECTIONS OF A DC CIRCUIT
3	ABILITY TO MAKE BASIC ELECTRONIC CIRCUIT AND APPLICATIONS
4	ABILITY TO MAKE ELECTRIC INSTALLMENT APPLICATIONS
5	ADAPTING VOCATIONAL ETHICAL VALUES
6	ABILITY TO MAKE COMMUNICATION
7	ABILITY TO MAKE CONNECTIONS OF AC CIRCUIT
8	ABILITY TO MAKE NUMERICAL CIRCUITS
9	ABILITY TO MAKE INSTALLATIONS OF TRANSFORMER AND DC ELECTRIC MACHINES
10	ABILITY TO MAKE COMPUTER AIDED DESIGN
11	ABILITY TO APPLY VOCATIONAL TECHNICAL METHODS
12	ABILITY TO MAKE INSTALLATIONS OF AC ELECTRIC MACHINES
13	ABILITY TO MAKE SPECIAL ELECTRIC INSTALLMENTS
14	ABILITY TO MAKE INSTALLMENTS OF COMMAND SYSTEMS
15	ABILITY TO DRAW COMPUTER AIDED ELECTRIC SCHEME
16	ABILITY TO MAKE POWER ELECTRONICS CIRCUITS
17	ABILITY TO MAKE SYSTEM ANALYSIS AND PRODUCT DESIGN
18	ABILITY TO IMPROVE ONESELF UTILIZING INFORMATION OPPORTUNITIES
19	ABILITY TO DRAW COMPUTER AIDED ELECTRIC INSTALLMENT PROJECT
20	ABILITY TO MAKE ANALYSIS AND MAINTENANCE OF ELECTRICAL ENERGY PRODUCTION SYSTEMS
21	ABILITY TO MAKE THE WINDING OF ACCURATE AND ALTERNATIVE CURRENT ENGINES
22	ABILITY TO RECOGNIZE SYSTEMS USED IN ELECTRICAL ENERGY TRANSMISSION AND DISTRIBUTION AND TROUBLESHOOTING
23	Ability to use the methods and techniques of career planning and discussing the effects of character traits on career preferences.
24	Ability to plan a career in their own profession.
25	To provide them with knowledge about substance use and addiction problem and prevention methods.

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

	L1	L2	L3	L4	L5	L6	L7
P1		2		3		4	5
P4	4	3		3		4	4
P11		4		4			
P13			3	2	5		
P15	4	5	3	4	5	4	
P19			4	4	4		

