



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Distribution and Transmission Electrical Energy							
Course Code		ELE206		Course Level		Short Cycle (Associate's Degree)			
ECTS Credit	4	Workload	100 (<i>Hours</i>)	Theory	3	Practice	1	Laboratory	0
Objectives of the Course		In this course, it is aimed to introduce the students all kinds of materials of high voltage networks and have the students gain the abilities of installing these materials.							
Course Content		The definition, operation and calculations of energy transfer systems							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Case Study, Project Based Study, Problem Solving					
Name of Lecturer(s)		Ins. Baybars DAL, Ins. Serkan ARTAN							

Assessment Methods and Criteria

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

Recommended or Required Reading

1	Electrical Energy Transfer and Distribution(Öğr.Gör.Erdal Turgut Öğr.Gör.Korkmaz Selçuk)
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Week	Weekly Detailed Course Contents	
1	Theoretical	Mounting a Pole
2	Theoretical	Mounting Traverse and Cantilever on the Poles
3	Theoretical	Placing the Overhead Line Conductors and Making the Connections
4	Theoretical	Maintenance of Poles, Hardwares and Lines
5	Theoretical	Maintenance of Poles, Hardwares and Lines
6	Theoretical	Resolving the ENH Malfunctions
7	Theoretical	Mounting of the Power Transformer
8	Theoretical	Mounting of Measurement Transformer
9	Theoretical	Mounting of Bus Bar System
10	Theoretical	Mounting of Separator
11	Theoretical	Mounting of Cutter
12	Theoretical	Resolving the Malfunctions in Switchyard
13	Theoretical	Maintenance of Panels and Measurement Systems
14	Theoretical	Maintenance of Panels and Measurement Systems

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	1	3	56
Lecture - Practice	14	0	1	14
Project	4	2	0	8
Midterm Examination	1	10	1	11
Final Examination	1	10	1	11
Total Workload (Hours)				100
[Total Workload (Hours) / 25*] = ECTS				4

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	Mounting a Pole
2	Mounting Traverse and Cantilever on the Poles
3	Mountilang of Insutor and Other Elements Placing the Overhead Line Conductors and Making the Connections



4	Mounting of the Power Transformer Mounting of Measurement Transformer
5	Mounting of Bus Bar System Mounting of Separator
6	Mounting of Cutter . Resolving the Malfunctions in Switchyard Maintenance of Panels and Measurement Systems

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
P1	3	3	3		3	4
P4			4	4	4	4
P11	3	4	4	4		
P20	5	5	5	5	4	5
P22	5	5	5	5	5	4

