AYDIN ADNAN MENDERES UNIVERSITY
SÖKE VOCATIONAL SCHOOL
ELECTRICAL AND ENERGY
ALTERNATIVE ENERGY SOURCES TECHNOLOGY
COURSE INFORMATION FORM

Course Title	Distribution and Transmission Electrical Energy								
Course Code	ELE206		Couse Level		Short Cycle (Associate's Degree)				
ECTS Credit	4	Workload	100 *(Hours)*	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	60

Recommended or Required Reading	
1	Electrical Energy Transfer and Distribution(Ögr.Gör.Erdal Turgut Ögr.Gör.Korkmaz Selçuk)

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 *(Alternative Energy Sources Technology)*	
1	Carry out installing work
2	Do mechanical drawing
3	Do pipe welding
4	Do basic electricity works
5	Do Computer assisted design
6	Install solar energy hot water preparation system.
7	Do measurement and calculations practices.
8	Do basic practices of geothermal energy.
9	Install control and automation system.
10	Install domestic water heating system with solar energy.
11	Generate electricity with solar energy
12	Generate electricity with wind power
13	Do geothermal energy practices
14	Install domestic cooling system
15	Do heating pump practices
16	Manage a business
17	SET UP A WORKPLACE/ BUSINESS (pre-requisite)
18	OBEY VOCATIONAL ETHICAL VALUES
19	RESEARCH AND EVALUA0TION/OBSERVATION
20	SELFIMPROVEMENT WITH USING INFORMATION FACILITIES
21	Knows the effects of all energy sources on the environment.
22	Can communicate in a foreign language

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
P11	4	4	4	4	4	4
P12	4	4	4	4	4	4