

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Transformer and Direct Current Machines							
Course Code		ELE104		Couse Level		Short Cycle (Associate's Degree)			
ECTS Credit	4	Workload	78 (Hours)	Theory	3	Practice	1	Laboratory	0
Objectives of the Course		In this course, it is aimed to have the students gain the abilities about finding the ends of any kind of transformers and DC motors, connecting them to the circuit and operating							
Course Content		Installing DC r calculations.	motors and ge	enerators, the	ir charcter	istics, specialti	es and install	ing transformers	and their
Work Placement		N/A							
Planned Learning Activities and Teaching Methods			Explanation	(Presenta	tion), Experime	ent, Demonst	ration, Problem S	olving	
Name of Lecturer(s)									

Assessment Methods and Criteria						
Method	Quantity	Percentage (%)				
Midterm Examination	1	40				
Final Examination	1	60				

Recommended or Required Reading 1 Electrical Machines 1 (A.Altunsaçlı) 2 Direct Current Machines (M.Alacacı)

Week	Weekly Detailed Course Contents					
1	Theoretical	Installing and Operating DC Motors				
2	Theoretical	Installing and Operating DC Motors				
3	Theoretical	Installing and Operating DC Motors				
4	Theoretical	Installing and Operating DC Motors				
5	Theoretical	Installing and Operating DC Motors				
6	Theoretical	Installing and Operating DC Generators				
7	Theoretical	Installing and Operating DC Generators				
8	Theoretical	Installing and Operating DC Generators				
9	Theoretical	Installing and Operating DC Generators				
10	Theoretical	Installing and Operating Transformers				
11	Theoretical	Installing and Operating Transformers				
12	Theoretical	Installing and Operating Transformers				
13	Theoretical	Installing and Operating Transformers				
14	Theoretical	Installing and Operating Transformers				

Workload Calculation						
Activity	Quantity	Preparation	Duration	Total Workload		
Lecture - Theory	14	1	3	56		
Lecture - Practice	14	0	1	14		
Midterm Examination	1	3	1	4		
Final Examination	1	3	1	4		
	78					
[Total Workload (Hours) / 25*] = ECTS						
*25 hour workload is accepted as 1 ECTS						

Learning Outcomes					
1	Operating the DC shunt, serial and compound motors				
2	Operating the DC shunt, serial and compound motors				
3	Operating a monophase transformer				



- Operating a triphase transformer
 Making DC machine connections.
- **Programme Outcomes** (Electrics) ABILITY TO MAKE APPLICATIONS OF MEASUREMENT AND CALCULATION 2 ABILITY TO MAKE CONNECTIONS OF A DC CIRCUIT ABILITY TO MAKE BASIC ELECTRONIC CIRCUIT AND APPLICATIONS 3 ABILITY TO MAKE ELECTRIC INSTALLMENT APPLICATIONS 4 5 ADAPTING VOCATIONAL ETHICAL VALUES 6 ABILITY TO MAKE COMMUNICATION 7 ABILITY TO MAKE CONNECTIONS OF AC CIRCUIT ABILITY TO MAKE NUMERICAL CIRCUITS 8 ABILITY TO MAKE INSTALLATIONS OF TRANSFORMER AND DC ELECTRIC MACHINES 9 ABILITY TO MAKE COMPUTER AIDED DESIGN 10 ABILITY TO APPLY VOCATIONAL TECHNICAL METHODS 11 ABILITY TO MAKE INSTALLATIONS OF AC ELECTRIC MACHINES 12 ABILITY TO MAKE SPECIAL ELECTRIC INSTALLMENTS 13 14 ABILITY TO MAKE INSTALLMENTS OF COMMAND SYSTEMS ABILITY TO DRAW COMPUTER AIDED ELECTRIC SCHEME 15 ABILITY TO MAKE POWER ELECTRONICS CIRCUITS 16 ABILITY TO MAKE SYSTEM ANALYSIS AND PRODUCT DESIGN 17 ABILITY TO IMPROVE ONESELF UTILIZING INFORMATION OPPORTUNITIES 18 ABILITY TO DRAW COMPUTER AIDED ELECTRIC INSTALLMENT PROJECT 19 ABILITY TO MAKE ANALYSIS AND MAINTENANCE OF ELECTRICAL ENERGY PRODUCTION SYSTEMS 20 ABILITY TO MAKE THE WINDING OF ACCURATE AND ALTERNATIVE CURRENT ENGINES 21 ABILITY TO RECOGNIZE SYSTEMS USED IN ELECTRICAL ENERGY TRANSMISSION AND DISTRIBUTION AND 22 TROUBLESHOOTING Ability to use the methods and techniques of career planning and discussing the effects of character traits on career 23 preferences. 24 Ability to plan a career in their own profession. 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
P1	3	3			3
P2	4	4			4
P3					2
P7	2	2			2
P9	5	5	5	5	4
P11	3	3			3
P12	1	1			
P13	1	1			
P14	2	2			
P15	2	2			
P16	2	2			
P17					3
P18					3
P20		4			3

