DEPARTMENT OF ELECTRICAL-ELECTRONICS ENGINEERING UNDERGRADUATE COURSE PLAN (100% English) (It will be implemented starting from the 2023-2024 Academic Year.)

	Fall Term - 1st Semester									
Code	Course Name	ECTS	С	Н	A	L	Prerequisite			
YDI1001	English - I	3	3,0	3	0	0				
MATH1001	Mathematics - I	5	4,0	4	0	0				
PHYS1001	Physics - I	5	3,5	3	0	1				
CHM1001	Basic Chemistry	5	3,5	3	0	1				
EEE1003	Introduction to Electrical and Electronics Engineering	2	2,0	2	0	0				
EEE1007	Fundamentals of Electrical Engineering	5	4,0	3	0	2				
EEE1009	Introduction to Computers	3	3,0	3	0	0				
EEE1011	Occupational Health and Safety - I	2	2,0	2	0	0				
	Total Credit	30	25,0	23	0	4				

	Spring Term - 2nd Semester										
Code	Course Name	ECTS	С	Н	A	L	Prerequisite				
YDI1002	English - II	3	3,0	3	0	0					
MATH1000	Mathematics - II	5	4,0	4	0	0					
PHYS1000	Physics - II	5	3,5	3	0	1					
EEE1000	Computer Programming	4	3,5	3	0	1					
EEE1002	Measurements in Electrical Engineering	4	3,0	2	0	2	EEE1007				
EEE1008	Materials in Electrical Engineering	2	2,0	2	0	0					
EEE1006	Digital Design	5	3,5	3	0	1	EEE1009				
EEE1010	Occupational Health and Safety - II	2	2,0	2	0	0					
	Total Credit	30	24,5	22	0	5					

	Fall Term - 3rd Semester									
Code	Course Name	ECTS	С	Н	A	L	Prerequisite			
EEE2025	English in Engineering	4	3,0	3	0	0				
MATH2001	Differential Equations	5	4,0	4	0	0				
EEE2011	Probability and Random Processes	4	3,0	3	0	0				
EEE2019	Microprocessors	5	3,5	3	0	1				
EEE2027	Electromagnetic Fields	4	3,0	3	0	0				
EEE2029	Circuits - I	4	3,0	3	0	0	EEE1007			
TURK2003	Turkish Language - I	2	0,0	2	0	0				
HIST2003	Ataturk's Principles and History of Revolution- I	2	0,0	2	0	0				
	Total Credit	30	19,5	23	0	1				

	Spring Ter	m - 4th	Semest	er			
Code	Course Name	ECTS	С	Н	A	L	Prerequisite
EEE2XXX	Engineering Mathematics	4	4,0	4	0	0	
EEE2008	Electronics - I	5	4,0	3	0	2	EEE1007
EEE2XXZ	Power Systems	4	3,0	3	0	0	
EEE2006	Circuits - II	5	4,0	3	0	2	EEE2029
EEE2XXX	Electromagnetic Waves	4	3,0	3	0	0	
EEE2XXX	Numerical Analysis	4	3,0	3	0	0	
TURK2XXX	Turkish Language - II	2	0,0	2	0	0	
HIST2XXX	Ataturk's Principles and History of Revolution- II	2	0,0	2	0	0	
	Total Credit	30	21,0	23	0	4	

	Fall Term - 5th	Semes	ter				
Code	Course Name	ECTS	С	Н	A	L	Prerequisite
EEE3003	System Dynamics and Control	4	3,0	3	0	0	
EEE3013	Signals and Systems	4	3,0	3	0	0	
EEE3009	Electronics - II	5	4,0	3	0	2	EEE2008
EEE3019	Electrical Machines- I	5	4,0	3	0	2	
EEE3021	Power Electronic Circuits	5	4,0	3	0	2	
EEE3029	Entrepreneurship	3	2,0	2	0	0	
	Technical Elective - T51	4	3,0	3	0	0	
	Total Credit	30	23,0	20	0	6	

	Spring Ter	m - 6th	Semest	er			
Code	Course Name	ECTS	C	Н	A	L	Prerequisite
EEE3XXX	Power Distribution Systems	5	4,0	3	0	2	EEE2XXZ
EEE3XXX	High Voltage Techniques	4	3,0	3	0	0	
EEE3XXX	Digital Signal Processing	5	4,0	3	0	2	
EEE3XXX	Communication Techniques	5	4,0	4	0	0	
EEE3034	Project Management	2	2,0	2	0	0	
	Technical Elective - T61	5	4,0	3	0	2	
	Social Elective - S61	4	2,0	2	0	0	
	Total Credit	30	23,0	20	0	6	

Fall Term - 7th Semester										
Code	Course Name	ECTS	C	Н	A	L	Prerequisite			
EEE4017	Professional Training - I	3	0,0	0	2	0				
EEE4xxx	Engineering Design	5	3,0	2	2	0				
ENG4XXX	Multidisciplinary Engineering Applications	2	1,0	0	2	0				
	Technical Elective - T71	6	3,0	2	0	2				
	Technical Elective - T71	6	3,0	2	0	2				
	Technical Elective - T72	4	2,0	2	0	0				
	Technical Elective - T72	4	2,0	2	0	0				
	Total Credit	30	14,0	10	4	4				

	Spring Term - 8th Semester									
Code	Course Name	ECTS	С	Н	A	L	Prerequisite			
EEE4010	Professional Training - II	3	0,0	0	2	0				
EEE4012	Graduation Project	8	3,0	2	2	0	EEE4xxx			
	Technical Elective - T81	5	2,0	2	0	0				
	Technical Elective - T81	5	2,0	2	0	0				
	Technical Elective - T81	5	2,0	2	0	0				
	Social Elective - S81	4	2,0	2	0	0				
	Total Credit	30	11,0	10	2	0				
	GRAND TOTAL CREDIT	240	161,0	151,0	6,0	30,0				

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	5th Semester - TECHNICAL ELECTIVE GROUP T51										
1 course must be selected from this group.											
Code	Course Name	ECTS	С	Н	A	L	Prerequisite				
EEE3015	Computer Communication	4	3	3	0	0					
EEE3017	Network Synthesis	4	3	3	0	0					
EEE3027	Embedded Systems	4	3	3	0	0					
EEE3XXX	Python Programming	4	3	3	0	0					

6th Semester - TECHNICAL ELECTIVE GROUP T61									
1 course must be selected from this group.									
Code	Course Name	ECTS	С	Н	A	L	Prerequisite		
EEE3010	Automatic Control Systems	5	4,0	3	0	2			
EEE3020	Microwave Techniques	5	4,0	3	0	2			

6th Semester - SOCIAL ELECTIVE GROUP S61										
1 course must be selected from this group.										
Code	Course Name	ECTS	С	Н	A	L	Prerequisite			
EEE3XXX	Technological Developments	4	2	2	0	0				
USEC0003	Professional Ethics	4	2	2	0	0				
USEC0012	Career Planning	4	2	2	0	0				
EEE3XXX	Engineering Economics	4	2	2	0	0				
USEC0007	Protection of Personal data	4	2	2	0	0				

	7th Semester - TECHNICAL ELECTIVE GROUP T71										
	2 courses must be selected from this group.										
Code	Course Name	ECTS	С	Н	A	L	Prerequisite				
EEE4XXX	Renewable Energy Systems	6	3	2	0	2					
EEE4XXX	Power System Protection	6	3	2	0	2					
EEE4XXX	Process Control	6	3	2	0	2					
EEE4XXX	Power Electronic Applications	6	3	2	0	2					
EEE4XXX	Antennas and Propagation	6	3	2	0	2					
EEE4XXX	Medical Electronics	6	3	2	0	2					
EEE4XXX	Digital Communication	6	3	2	0	2					
EEE4XXX	Industrial Electronics	6	3	2	0	2					

8th Semester – TECHNICAL ELECTIVE GROUP T81 3 courses must be selected from this group.							
EEE4xxx	Power System Analysis	5	2	2	0	0	
EEE4xxx	Drive Systems	5	2	2	0	0	
EEE4xxx	Electrical machines - II	5	2	2	0	0	
EEE4xxx	Power System Design	5	2	2	0	0	
EEE4xxx	Electrical Vehicles	5	2	2	0	0	
EEE4xxx	Electromagnetic Compatibility	5	2	2	0	0	
EEE4xxx	Fiberoptic Communication	5	2	2	0	0	
EEE4xxx	Communication Systems	5	2	2	0	0	
EEE4xxx	Digital Control Systems	5	2	2	0	0	
EEE4xxx	Intelligent Control Systems	5	2	2	0	0	
EEE4xxx	Mobile Communications	5	2	2	0	0	
EEE4xxx	Medical Imaging Techniques	5	2	2	0	0	
EEE4xxx	Electrochemical Biosensors	5	2	2	0	0	
EEE4xxx	Mechatronics	5	2	2	0	0	

7th Semester - TECHNICAL ELECTIVE GROUP T72							
2 courses must be selected from this group.							
Code	Course Name	ECTS	С	Н	A	L	Prerequisite
EEE4025	Lighting Techniques	4	2	2	0	0	
EEE4027	Special Electric Machines	4	2	2	0	0	
EEE4029	Distributed Generation Systems	4	2	2	0	0	
EEE4031	Communication Electronics	4	2	2	0	0	
EEE4033	Image Processing	4	2	2	0	0	
ELK4037	Microwave Systems	4	2	2	0	0	
EEE4039	Electronic Device Techniques	4	2	2	0	0	
EEE4041	Introduction to Biomedical Optics	4	2	2	0	0	

8th Semester - SOCIAL ELECTIVE GROUP S81							
	1 course must be selected from this group.						
Code	Course Name	ECTS	С	Н	A	L	Prerequisite
EEE4038	Business Law	4	2	2	0	0	
OPE4032	Management and Organization	4	2	2	0	0	
EEE4040	Information Crime Law	4	2	2	0	0	
EEE4042	Expertise Law and its Application	4	2	2	0	0	

PREREQUISITE COURSES

Course Name	Prerequisite Course
EEE1006 Digital Design	EEE1009 Introduction to Computers
EEE2029 Circuits - I	EEE1007 Fundamentals of Electrical Engineering
EEE1002 Measurements in Electrical Engineering	EEE1007 Fundamentals of Electrical Engineering
EEE2008 Electronics- I	EEE1007 Fundamentals of Electrical Engineering
EEE2006 Circuits - II	EEE2029 Circuits - I
EEE3009 Electronics- II	EEE2008 Electronics- I
EEE3XXX Power Distribution Systems	EEE2XXZ Power Systems
EEE4012Graduation Project	EEE4xxx Engineering Design

ADDITIONAL TERMS:

- (1). In order to take courses in the 5th semester, the GPA must be at least 1.8 at the end of the 4th semester.(2). There is a 70% attendance requirement for theoretical courses and 80% attendance at laboratories.

In order to enroll in a continuation course, it is necessary to get at least a DC grade from the prerequisite course.

09/08/2023