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	C	H	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	
EEE1005	Fundamentals of Electrical Engineering	5	4,0	3	0	2	
EEE1001	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	C	H	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	EEE1005
EEE1XXX	Materials in Electrical Engineering	2	2,0	2	0	0	
EEE1006	Digital Design	5	3,5	3	0	1	EEE1001
EEE1XXX	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	C	H	A	L	Prerequisite
EEE2XXX	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	
EEE2XXX	Electromagnetic Fields	4	3,0	3	0	0	
EEE2XXY	Circuits - I	4	3,0	3	0	0	EEE1005
TURK2XXX	Turkish Language - I	2	0,0	2	0	0	
HIST2XXX	Ataturk's Principles and History of Revolution- I	2	0,0	2	0	0	
Total Credit		**30**	**19,5**	**23**	**0**	**1**	

Spring Term - 4th Semester

Code	Course Name	ECTS	C	H	A	L	Prerequisite
EEE2XXX	Engineering Mathematics	4	4,0	4	0	0	
EEE2008	Electronics - I	5	4,0	3	0	2	EEE1005
EEE2XXZ	Power Systems	4	3,0	3	0	0	
EEE2006	Circuits - II	5	4,0	3	0	2	EEE2XXY
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 Semester

Code	Course Name	ECTS	C	H	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 Term - 6th Semester

Code	Course Name	ECTS	C	H	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	H	A	L	Prerequisite
EEE4017	Professional Training - I	3	0,0	0	2	0	
EEE4019	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	C	H	A	L	Prerequisite
EEE4010	Professional Training - II	3	0,0	0	2	0	
EEE4XXX	Graduation Project	8	3,0	2	2	0	EEE4019
	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**	

DEPARTMENT OF ELECTRICAL-ELECTRONICS ENGINEERING
UNDERGRADUATE COURSE PLAN (100% English) (ELECTIVE COURSE PLAN)

5th Semester - TECHNICAL ELECTIVE GROUP T51

1 course must be selected from this group.

Code	Course Name	ECTS	C	H	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	C	H	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	C	H	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	C	H	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.

Code	Course Name	ECTS	C	H	A	L	Prerequisite
EEE4008	Power System Analysis	5	2	2	0	0	
EEE4004	Drive Systems	5	2	2	0	0	
EEE4034	Electrical machines - II	5	2	2	0	0	
EEE4014	Power System Design	5	2	2	0	0	
EEE4016	Electrical Vehicles	5	2	2	0	0	
EEE4028	Electromagnetic Compatibility	5	2	2	0	0	
EEE4024	Fiberoptic Communication	5	2	2	0	0	
EEE4026	Communication Systems	5	2	2	0	0	
EEE4020	Digital Control Systems	5	2	2	0	0	
EEE4022	Intelligent Control Systems	5	2	2	0	0	
EEE4030	Mobile Communications	5	2	2	0	0	
EEE4046	Medical Imaging Techniques	5	2	2	0	0	
EEE4036	Electrochemical Biosensors	5	2	2	0	0	
EEE4044	Mechatronics	5	2	2	0	0	

7th Semester - TECHNICAL ELECTIVE GROUP T72

2 courses must be selected from this group.

Code	Course Name	ECTS	C	H	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	C	H	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	EEE1001 Introduction to Computers
EEE2XXY Circuits - I	EEE1005 Fundamentals of Electrical Engineering
EEE1002 Measurements in Electrical Engineering	EEE1005 Fundamentals of Electrical Engineering
EEE2008 Electronics- I	EEE1005 Fundamentals of Electrical Engineering
EEE2006 Circuits - II	EEE2XXY Circuits - I
EEE3009 Electronics- II	EEE2008 Electronics- I
EEE3XXX Power Distribution Systems	EEE2XXZ Power Systems
EEE4XXX Graduation Project	EEE4019 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