

ELECTRICAL-ELECTRONICS ENGINEERING DEPARTMENT MINOR EDUCATION PROGRAM
(It is valid for other departments of the Faculty of Engineering, the Department of Physics of the Faculty of Science and the Department of Energy Engineering of the Faculty of Technology.)

3 rd SEMESTER							
Code	Course Name	ECTS	C	H	A	L	Prerequisite
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	EEE1007
Total Credit		13	9,5	9	0	1	

4 th SEMESTER							
Code	Course Name	ECTS	C	H	A	L	Prerequisite
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	EEE2XXY
Total Credit		14	11,0	9	0	4	

5 th 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	
Total Credit		18	14,0	12	0	4	

6 th SEMESTER							
Code	Course Name	ECTS	C	H	A	L	Prerequisite
EEE3XXX	High Voltage Techniques	4	3,0	3	0	0	
EEE3XXX	Communication Techniques	5	4,0	4	0	0	
	Technical Elective - T61	5	4,0	3	0	2	
Total Credit		14	11,0	10	0	2	

7 th SEMESTER							
Code	Course Name	ECTS	C	H	A	L	Prerequisite
	Technical Elective - T71	6	3,0	2	0	2	
	Technical Elective - T71	6	3,0	2	0	2	
Total Credit		10	5,0	4	0	2	

8 th SEMESTER							
Code	Course Name	ECTS	C	H	A	L	Prerequisite
	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	
Total Credit		15	6	6	0	0	
Grand Total Credit		84	56,5	151	0	13	

DESCRIPTIONS:

1. Students who are accepted to the minor program can choose courses to complete a minimum of 21 credits, provided that they take at least one course from the above program in each semester.
2. Students cannot take courses with the same content as the courses they take in their departments.

**DEPARTMENT OF ELECTRICAL-ELECTRONICS ENGINEERING
(MINOR EDUCATION ELECTIVE COURSES)**

6th SEMESTER - Technical Elective Group T61

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	

7th SEMESTER - Technical Elective Group T71

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	

7th SEMESTER - Technical Elective Group T72

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 - Technical Elective Group T81

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	