FACULTY OF ENGINEERING, ARCHITECTURE AND DESIGN

ELECTRICAL AND ELECTRONICAL ENGINEERING

2. YARIYIL

D. Kodu	Dersin Adı	Türü	T	U	L	K	AKTS
EEE 101	Introduction to Electrical and Electronics Engineering and Engineering Ethics	C	2	0	0	2	2
MATH 121	Calculus I	C	4	0	0	4	6
PHYS 121	Physics I	C	3	0	2	4	6
CHEM 121	General Chemistry	C	3	0	0	3	5
MATH 123	Engineering Mathematics	C	2	2	0	3	5
TRD 101	Turkish Language I	C	2	0	0	2	2
ENG 101	English for Academic Purposes I	C	3	0	0	3	3
CAP 002	Career Planning and Meeting with the Sector	C	1	0	0	1	2
TOTAL			**20**	**2**	**2**	**22**	**31**

D. Kodu	Dersin Adı	Türü	T	U	L	K	AKTS
MATH 122	Calculus II	C	4	0	0	4	6
PHYS 122	Physics II	C	3	0	2	4	6
MATH 124	Linear Algebra	C	3	0	0	3	5
ENGR 102	Computer Aided Design	C	2	0	2	3	5
CENG 152	Computer Programming	C	2	0	2	3	5
TRD 102	Turkish Language II	C	2	0	0	2	2
ENG 102	English for Academic Purposes II	C	3	0	0	3	3
TOTAL			**19**	**0**	**6**	**22**	**32**

3. SEMESTER

C. Code	Course Name	Type	T	A	L	C	ECTS
EEE 201	Circuit Analysis I	C	3	0	2	4	6
EEE 203	Electronic I	C	3	0	2	4	6
MATH 221	Differential Equations	C	4	0	0	4	6
ATA101	Ataturk's Principles and History of Turkish Revolution I	C	2	0	0	2	2
OHS 201	Occupational Health and Safety I	C	2	0	0	2	2
MATH 225	Probability and Statistics	C	3	0	0	3	5
	University Elective	E	2	0	0	2	3
TOTAL			**22**	**0**	**6**	**25**	**30**

4. SEMESTER

C. Code	Course Name	Type	T	A	L	C	ECTS
EEE 202	Circuit Analysis II	C	2	0	2	3	5
EEE 204	Electronic II	C	2	0	2	3	5
EEE 206	Electromagnetic Field Theory	C	4	0	0	4	6
EEE 208	Digital Electronics	C	3	0	2	4	5
ATA 102	Ataturk's Principles and History of Turkish Revolution I	C	2	0	0	2	2
OHS 202	Occupational Health and Safety II	C	2	0	0	2	2
	Departmental/Non-departmental Elective	E	3	0	0	3	5
TOTAL			**20**	**0**	**8**	**24**	**30**

5. SEMESTER

C. Code	Course Name	Type	T	A	L	C	ECTS
EEE 301	Signals and Systems	C	3	0	0	3	4
EEE 303	Control Systems	C	2	2	0	3	5
EEE 305	Embedded Systems	C	2	2	0	3	5
	Departmental Elective	E	3	0	0	3	5
	Departmental/Non-departmental Elective	E	3	0	0	3	5
	University Elective	E	2	0	0	2	3
	University Elective	E	2	0	0	2	3
TOTAL			**17**	**4**	**0**	**19**	**30**

6. SEMESTER

C. Code	Course Name	Type	T	A	L	C	ECTS
EEE 302	Digital Signal Processing	C	3	0	0	3	5
EEE 304	Introduction to Communication Systems	C	2	2	0	3	5
	Departmental Elective	E	3	0	0	3	5
	Departmental/Non-departmental Elective	E	3	0	0	3	5
	Departmental/Non-departmental Elective	E	3	0	0	3	5
EEE 300	Practicum	C	0	0	0	0	**5**
TOTAL			**14**	**2**	**0**	**15**	**30**

7. SEMESTER

C. Code	Course Name	Type	T	A	L	C	ECTS
EEE 401	Graduation Seminar	C	2	4	0	4	5
	Departmental Elective	E	3	0	0	3	5
	Departmental Elective	E	3	0	0	3	5
	Departmental Elective	E	3	0	0	3	5
	Departmental/Non-departmental Elective	E	3	0	0	3	5
	Departmental/Non-departmental Elective	E	3	0	0	3	5
TOTAL			**17**	**4**	**0**	**19**	**30**

8. SEMESTER

C. Code	Course Name	Type	T	A	L	C	ECTS
EEE 402	Graduation Project	C	2	4	0	4	10
	Business Experience*	C	0	24	0	12	15
	Departmental/Non-departmental Elective	E	3	0	0	3	5
TOTAL			**5**	**28**	**0**	**19**	**30**

***INTERNSHIP APPLIED COURSES**

C. Code	Course Name	Type	T	A	L	C	ECTS
EEE 404	Vocational Training in Business	C	0	24	0	12	15
EEE 406	Electrical and Electronics Engineering Applications	C	0	24	0	12	15

* Alternatively, one of the two courses will be taken

CREDIT / ECTS TOTAL	**243**
ELECTIVE COURSE CREDIT / ECTS TOTAL	**69,00**
ELECTIVE COURSE RATIO (%)	**0,283950617**

Practicum: Practicum is mandatory for graduation. The earliest it begin is the summer after the fourth semester. However, to take the sixth semester EEE Practicum course at the end of the fourth semester, a GPA of 3.00 or higher is required. The total credit is 5 ECTS, and the Practicum duration is 30 days.

To take EEE 401 Graduation Seminar and Business Experience* courses, GPA must be at least 2.00.
To take the EEE 402 Graduation Project course, it is necessary to pass the EEE 401 Graduation Seminar course.

DEPARTMENTAL ELECTIVE COURSES

C. Code	Course Name	Type	T	A	L	C	ECTS
EEE 350	Electrical Machines	E	3	0	0	3	5
EEE 352	Magnetism and Magnetic Materials	E	3	0	0	3	5
EEE 353	Sensors and Converters	E	3	0	0	3	5
EEE 354	Energy Distribution Systems (EMO)	E	3	0	0	3	5
EEE 355	Energy Distribution Project	E	3	0	0	3	5
EEE 356	Lighting Technique	E	3	0	0	3	5
EEE 357	Lighting Project	E	3	0	0	3	5
EEE 358	Dynamic Systems and Simulations	E	3	0	0	3	5
EEE 360	Power Electronics	E	3	0	0	3	5
EEE 450	Digital Control Systems	E	3	0	0	3	5
EEE 451	Control System Design	E	3	0	0	3	5
EEE 452	Industrial Automation	E	3	0	0	3	5
EEE 453	Robotics	E	3	0	0	3	5
EEE 454	Nonlineer Control Systems	E	3	0	0	3	5
EEE 455	Image Processing	E	3	0	0	3	5
EEE 456	Remote Sensing	E	3	0	0	3	5

C. Code	Course Name	Type	T	A	L	C	ECTS
EEE 457	Introduction to Artificial Intelligence	E	3	0	0	3	5
EEE 458	Optimization	E	3	0	0	3	5
EEE 459	Mobile System Applications	E	3	0	0	3	5
EEE 460	Programming Techniques	E	3	0	0	3	5
EEE 461	Smart System Applications with Internet of Things	E	3	0	0	3	5
EEE 462	Antennas and Propagation	E	3	0	0	3	5
EEE 463	Solar Energy and Its Applications	E	3	0	0	3	5
EEE 464	Optoelectronic	E	3	0	0	3	5
EEE 465	Lasers	E	3	0	0	3	5
EEE 466	Physics III	E	3	0	0	3	5
EEE 467	Transformer Design	E	3	0	0	3	5
EEE 468	Power System Analysis (EMO)	E	3	0	0	3	5
EEE 469	High Voltage Technique(EMO)	E	3	0	0	3	5
EEE 470	Renewable Energy Systems	E	3	0	0	3	5
EEE 471	Energy Transport Systems	E	3	0	0	3	5
EEE 472	Electrical Protection and Grounding (EMO)	E	3	0	0	3	5
EEE 473	Electrical Measurement Technique	E	3	0	0	3	5
EEE 474	Communication Electronics	E	3	0	0	3	5