

Mühendislik Fakültesi
Elektrik-Elektronik Mühendisliği (İngilizce)
Lisans

Genel Toplam Ders Adedi :52 T : 126 U : 36 Kredi : 260 ECTS : 260 T+U : 162

YABANCI DİL HAZIRLIK

No	Ders Kodu	Ders Adı	T	U	Kredi	ECTS
1	YDI0001	Yabancı Dil Yeterlik (İngilizce)	0	0	0	0

1. YARIYIL

No	Ders Kodu	Ders Adı	T	U	Kredi	ECTS
1	ATA121	Atatürk İlkeleri ve İnkılap Tarihi I	2	0	2	2
2	CHEM1007	Basic Chemistry	4	0	6	6
3	CSE1145	Introduction to Computer Programming	3	2	5	5
4	ENG1001	Academic Presentation Skills for Engineers	2	0	3	3
5	MATH1001	Calculus I	4	0	6	6
6	PHYS1101	Physics I	3	0	4	4
7	PHYS1103	Physics Lab I	0	2	2	2
8	TRD121	Türk Dili I	2	0	2	2
Toplam			20	4	30,00	30,00

2. YARIYIL

No	Ders Kodu	Ders Adı	T	U	Kredi	ECTS
1	ATA122	Atatürk İlkeleri ve İnkılap Tarihi II	2	0	2	2
2	CSE1146	Intermediate Programming	3	2	7	7
3	EE1100	Introduction to Electrical Engineering	2	0	3	3
4	MATH1002	Calculus II	4	0	6	6
5	MATH2056	Linear Algebra	3	0	4	4
6	PHYS1102	Physics II	3	0	4	4
7	PHYS1104	Physics Lab II	0	2	2	2
8	TRD122	Türk Dili II	2	0	2	2
Toplam			19	4	30,00	30,00

3. YARIYIL

No	Ders Kodu	Ders Adı	T	U	Kredi	ECTS
1	CSE2037	Introduction to Systems Programming	2	2	7	7
2	EE2001	Electrical Circuits I	3	2	7	7
3	EE2021	Computer Tools for Electrical Engineering	2	2	5	5
4	MATH2055	Differential Equations	3	0	4	4
5	MSE2072	Introduction to Materials Science	3	0	4	4
6	NTE_1	Non-Technical Elective - 1 (Ders 1) <small>[Bu ders NTE_1 ders grubundan alınacaktır, aşağıya bakınız]</small>	2	0	3	3
Toplam			15	6	30,00	30,00

4. YARIYIL

No	Ders Kodu	Ders Adı	T	U	Kredi	ECTS
1	CSE2062	Object-Oriented Programming	3	0	6	6
2	ECON2003	Introduction to Economics	3	0	4	4
3	EE2002	Electrical Circuits II	3	2	7	7
4	MATH2057	Discrete Mathematics	3	0	5	5
5	MATH2059	Numerical Methods	3	0	4	4
6	STAT2056	Probability and Random Variables	3	0	4	4
Toplam			18	2	30,00	30,00

5. YARIYIL

No	Ders Kodu	Ders Adı	T	U	Kredi	ECTS
1	CSE3017	Digital Design	3	2	6	6
2	ECON2004	Engineering Economy	2	0	4	4
3	EE3000	Summer Practice I	0	0	10	10
4	EE3011	Electronics I	3	2	7	7
5	EE3051	Fundamentals of Electromagnetics	3	0	6	6
6	EE3061	Signals and Systems	3	2	7	7
Toplam			14	6	40,00	40,00

6. YARIYIL

No	Ders Kodu	Ders Adı	T	U	Kredi	ECTS
1	EE3012	Electronics II	3	2	7	7
2	EE3042	Energy Conversion	3	0	6	6
3	EE3072	Dynamics System and Control	3	2	7	7
4	EE3082	Communication Engineering	3	2	7	7
5	NTE_2	Non-Technical Elective - 2 (Ders 1) <small>[Bu ders NTE_2 ders grubundan alınacaktır, aşağıya bakınız]</small>	2	0	3	3
Toplam			14	6	30,00	30,00

7. YARIYIL

No	Ders Kodu	Ders Adı	T	U	Kredi	ECTS
1	EE4000	Summer Practice II	0	0	10	10
2	EE4197	Engineering Project I	0	4	10	10
3	ISG121	İş Sağlığı ve Güvenliği I	2	0	2	2
4	NTE_3	Non-Technical Elective - 3 (Ders 1) <small>[Bu ders NTE_3 ders grubundan alınacaktır, aşağıya bakınız]</small>	2	0	3	3
5	TE-1,2,3	Technical Elective - 1-2-3 (Ders 1) <small>[Bu ders TE-1,2,3 ders grubundan alınacaktır, aşağıya bakınız]</small>	3	0	5	5
6	TE-1,2,3	Technical Elective - 1-2-3 (Ders 2) <small>[Bu ders TE-1,2,3 ders grubundan alınacaktır, aşağıya bakınız]</small>	3	0	5	5
7	TE-1,2,3	Technical Elective - 1-2-3 (Ders 3) <small>[Bu ders TE-1,2,3 ders grubundan alınacaktır, aşağıya bakınız]</small>	3	0	5	5
Toplam			13	4	40,00	40,00

8. YARIYIL

No	Ders Kodu	Ders Adı	T	U	Kredi	ECTS
1	EE4198	Engineering Project II	0	4	10	10
2	ENG-FTE	Faculty Technical Electives (Ders 1) <small>[Bu ders ENG-FTE ders grubundan alınacaktır, aşağıya bakınız]</small>	3	0	5	5
3	ENG-UE	University Elective (Ders 1) <small>[Bu ders ENG-UE ders grubundan alınacaktır, aşağıya bakınız]</small>	2	0	3	3
4	ISG122	İş Sağlığı ve Güvenliği II	2	0	2	2
5	TE-4,5	Technical Elective - 4-5 (Ders 1) <small>[Bu ders TE-4,5 ders grubundan alınacaktır, aşağıya bakınız]</small>	3	0	5	5
6	TE-4,5	Technical Elective - 4-5 (Ders 2) <small>[Bu ders TE-4,5 ders grubundan alınacaktır, aşağıya bakınız]</small>	3	0	5	5
Toplam			13	4	30,00	30,00

NTE_1

No	Ders Kodu	Ders Adı	T	U	Kredi	ECTS
1	BUS1003	Entrepreneurship and Innovation	2	0	3	3

NTE_2

No	Ders Kodu	Ders Adı	T	U	Kredi	ECTS
1	BUS1003	Entrepreneurship and Innovation	2	0	3	3

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2	BUS1004	Strategic Entrepreneurship	2	0	3	3
3	BUS2005	International Business	2	0	3	3
4	CAS1001	Self Management	2	0	3	3
5	CAS1010	Our Biosphere	2	0	3	3
6	CAS1061	Geometric Origami	2	0	3	3
7	CAS2001	Energy for Physical Activity	2	0	3	3
8	CAS2002	Human Performance and Nutrition	2	0	3	3
9	CAS2003	Cardiopulmonary Resuscitation and First Aid Basics	2	0	3	3
10	CAS2004	Interpersonal Relations and Communication	2	0	3	3
11	CAS2005	Trekking and Orienteering	2	0	3	3
12	CAS3001	Earthquake and Rescue Principles	2	0	3	3
13	CAS3044	Positive Thinking	2	0	3	3
14	COMM2060	Communication Models and Techniques	2	0	3	3
15	FNCE3003	Investment Planning	2	0	3	3
16	HR1013	Career Development	2	0	3	3
17	HR4001	Career Orientation	2	0	3	3
18	HSS3002	Ethics in Engineering and Science	2	0	3	3
19	IKT1054	Industrial and Economic Sociology	2	0	3	3
20	INF1001	Information Literacy in Engineering	2	0	3	3
21	LAW2004	Labor Law	2	0	3	3
22	MAN1001	Principles of Managerial Economics & Financial Management	2	0	3	3
23	MGT1021	Design, Innovation and Entrepreneurship	2	0	3	3
24	MGT3082	Creativity And Innovation Management	2	0	3	3
25	MRK3082	Integrated Marketing Communication	2	0	3	3
26	MRK3084	Brand Creation/Branding	2	0	3	3
27	NTE1002	Effects Of Human Behaviour On Environment	2	0	3	3
28	NTE1003	The Culture of Radiation Safety	2	0	3	3
29	OB2040	Industrial Psychology	2	0	3	3
30	OB2041	Behavioral Sciences for Engineers	2	0	3	3
31	OB3043	Organizational Behaviour	2	0	3	3
32	SOC3082	Environmental Sociology	2	0	3	3
33	YDA1001	German for Beginners	2	0	3	3
34	YDA1002	German	2	0	3	3
35	YDA1003	German Communication	2	0	3	3
36	YDA2001	Seminars in German	2	0	3	3
37	YDIS1001	Spanish For Beginners	2	0	3	3
38	YDIS1002	Spanish	2	0	3	3

2	BUS1004	Strategic Entrepreneurship	2	0	3	3
3	BUS2005	International Business	2	0	3	3
4	CAS1001	Self Management	2	0	3	3
5	CAS1010	Our Biosphere	2	0	3	3
6	CAS1061	Geometric Origami	2	0	3	3
7	CAS2001	Energy for Physical Activity	2	0	3	3
8	CAS2002	Human Performance and Nutrition	2	0	3	3
9	CAS2003	Cardiopulmonary Resuscitation and First Aid Basics	2	0	3	3
10	CAS2004	Interpersonal Relations and Communication	2	0	3	3
11	CAS2005	Trekking and Orienteering	2	0	3	3
12	CAS3001	Earthquake and Rescue Principles	2	0	3	3
13	CAS3044	Positive Thinking	2	0	3	3
14	COMM2060	Communication Models and Techniques	2	0	3	3
15	FNCE3003	Investment Planning	2	0	3	3
16	HR1013	Career Development	2	0	3	3
17	HR4001	Career Orientation	2	0	3	3
18	HSS3002	Ethics in Engineering and Science	2	0	3	3
19	IKT1054	Industrial and Economic Sociology	2	0	3	3
20	INF1001	Information Literacy in Engineering	2	0	3	3
21	LAW2004	Labor Law	2	0	3	3
22	MAN1001	Principles of Managerial Economics & Financial Management	2	0	3	3
23	MGT1021	Design, Innovation and Entrepreneurship	2	0	3	3
24	MGT3082	Creativity And Innovation Management	2	0	3	3
25	MRK3082	Integrated Marketing Communication	2	0	3	3
26	MRK3084	Brand Creation/Branding	2	0	3	3
27	NTE1002	Effects Of Human Behaviour On Environment	2	0	3	3
28	NTE1003	The Culture of Radiation Safety	2	0	3	3
29	OB2040	Industrial Psychology	2	0	3	3
30	OB2041	Behavioral Sciences for Engineers	2	0	3	3
31	OB3043	Organizational Behaviour	2	0	3	3
32	SOC3082	Environmental Sociology	2	0	3	3
33	YDA1001	German for Beginners	2	0	3	3
34	YDA1002	German	2	0	3	3
35	YDA1003	German Communication	2	0	3	3
36	YDA2001	Seminars in German	2	0	3	3
37	YDIS1001	Spanish For Beginners	2	0	3	3
38	YDIS1002	Spanish	2	0	3	3

NTE_3

No	Ders Kodu	Ders Adı	T	U	Kredi	ECTS
1	BUS1003	Entrepreneurship and Innovation	2	0	3	3
2	BUS1004	Strategic Entrepreneurship	2	0	3	3
3	BUS2005	International Business	2	0	3	3
4	CAS1001	Self Management	2	0	3	3
5	CAS1010	Our Biosphere	2	0	3	3
6	CAS1061	Geometric Origami	2	0	3	3
7	CAS2001	Energy for Physical Activity	2	0	3	3
8	CAS2002	Human Performance and Nutrition	2	0	3	3
9	CAS2003	Cardiopulmonary Resuscitation and First Aid Basics	2	0	3	3
10	CAS2004	Interpersonal Relations and Communication	2	0	3	3
11	CAS2005	Trekking and Orienteering	2	0	3	3
12	CAS3001	Earthquake and Rescue Principles	2	0	3	3
13	CAS3044	Positive Thinking	2	0	3	3

TE-1,2,3

No	Ders Kodu	Ders Adı	T	U	Kredi	ECTS
1	CSE4053	Information Systems: Analysis and Design	3	0	5	5
2	CSE4056	Management of Information Systems	3	0	5	5
3	CSE4057	Information Systems Security	3	0	5	5
4	CSE4066	Introduction to Cryptography	3	0	5	5
5	CSE4071	Fundamentals Principles of Programming Languages	3	0	5	5
6	CSE4072	Machine Learning	3	0	5	5
7	CSE4073	Introduction to Computer Networks	3	0	5	5
8	EE4010	VLSI Circuit Design	3	0	5	5
9	EE4011	Electronic Measurement and Instrumentation Techniques	3	0	5	5
10	EE4012	Digital Electronics	3	0	5	5
11	EE4013	Communication Electronics	3	0	5	5
12	EE4014	Industrial Electronics	3	0	5	5

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14	COMM2060	Communication Models and Techniques	2	0	3	3
15	FNCE3003	Investment Planning	2	0	3	3
16	HR1013	Career Development	2	0	3	3
17	HR4001	Career Orientation	2	0	3	3
18	HSS3002	Ethics in Engineering and Science	2	0	3	3
19	IKT1054	Industrial and Economic Sociology	2	0	3	3
20	INF1001	Information Literacy in Engineering	2	0	3	3
21	LAW2004	Labor Law	2	0	3	3
22	MAN1001	Principles of Managerial Economics & Financial Management	2	0	3	3
23	MGT1021	Design, Innovation and Entrepreneurship	2	0	3	3
24	MGT3082	Creativity And Innovation Management	2	0	3	3
25	MRK3082	Integrated Marketing Communication	2	0	3	3
26	MRK3084	Brand Creation/Branding	2	0	3	3
27	NTE1002	Effects Of Human Behaviour On Environment	2	0	3	3
28	NTE1003	The Culture of Radiation Safety	2	0	3	3
29	OB2040	Industrial Psychology	2	0	3	3
30	OB2041	Behavioral Sciences for Engineers	2	0	3	3
31	OB3043	Organizational Behaviour	2	0	3	3
32	SOC3082	Environmental Sociology	2	0	3	3
33	YDA1001	German for Beginners	2	0	3	3
34	YDA1002	German	2	0	3	3
35	YDA1003	German Communication	2	0	3	3
36	YDA2001	Seminars in German	2	0	3	3
37	YDIS1001	Spanish For Beginners	2	0	3	3
38	YDIS1002	Spanish	2	0	3	3

13	EE4015	Op-Amps and Applications	3	0	5	5
14	EE4016	Design with Integrated Circuits	3	0	5	5
15	EE4017	Electrical Equipment and Applications	3	0	5	5
16	EE4021	Introduction to Microelectromechanical Devices and Systems	3	0	5	5
17	EE4025	Introduction to BioMEMS	3	0	5	5
18	EE4037	Microcontroller Based System Design	3	0	5	5
19	EE4042	Utilization of Electrical Energy	3	0	5	5
20	EE4043	Static Power Conversion	3	0	5	5
21	EE4044	Power System Analysis I	3	0	5	5
22	EE4045	Power System Analysis II	3	0	5	5
23	EE4046	Electrical Distribution Systems	3	0	5	5
24	EE4047	High Voltage Techniques I	3	0	5	5
25	EE4048	High Voltage Techniques II	3	0	5	5
26	EE4049	Power System Protection	3	0	5	5
27	EE4051	Electromagnetic Waves	3	0	5	5
28	EE4052	Antennas and Propagation	3	0	5	5
29	EE4053	Microwaves	3	0	5	5
30	EE4061	Introduction to Digital Signal Processing	3	0	5	5
31	EE4062	Introduction to Image Processing	3	0	5	5
32	EE4071	Linear System Theory	3	0	5	5
33	EE4072	Control Technology and Design	3	0	5	5
34	EE4073	Introduction to Optimization Theory	3	0	5	5
35	EE4074	Discrete Time Systems	3	0	5	5
36	EE4075	Nonlinear Control Systems	3	0	5	5
37	EE4076	Process Control	3	0	5	5
38	EE4081	Introduction to Information Theory	3	0	5	5
39	EE4082	Digital Communication	3	0	5	5
40	EE4083	Mobile Communication	3	0	5	5
41	EE4091	Special Topics in Electrical and Electronics Engineering	3	0	5	5
42	EE4092	Selected Topics in Electrical and Electronics Engineering	3	0	5	5

ENG-FTE

No	Ders Kodu	Ders Adı	T	U	Kredi	ECTS
1	BIOE4072	Planning and Management of Research	3	0	5	5
2	CHE4060	Cost Management in Chemical Industries	3	0	5	5
3	CHE4080	Chemical Engineering for Sustainable Biosphere	3	0	5	5
4	CSE4044	Software Project Management	3	0	5	5
5	CSE4056	Management of Information Systems	3	0	5	5
6	CSE4057	Information Systems Security	3	0	5	5
7	CSE4084	Multimedia Systems	3	0	5	5
8	CSE4088	Introduction to Machine Learning	3	0	5	5
9	EE4062	Introduction to Image Processing	3	0	5	5
10	ENVE4062	Energy and the Environment	3	0	5	5
11	ENVE4063	Construction Materials for Environmental Engineering	3	0	5	5
12	IE4055	Design of Experiments	3	0	5	5
13	IE4087	Introduction to Total Quality Management	3	0	5	5
14	ME3004	Mathematical Modeling in Mechanical Engineering	3	0	5	5
15	ME4018	Introduction to Robotics	3	0	5	5
16	ME4022	Control Systems	3	0	5	5
17	ME4033	Designing Quality Products	3	0	5	5
18	ME4051	Automotive Engineering	3	0	5	5
19	MGT4082	Advanced innovative Design Management for Entrepreneurship	3	0	5	5
20	MSE4073	Materials Engineering Economics and Plant Design	3	0	5	5
21	MSE4074	Total Quality Management in Materials Engineering	3	0	5	5

ENG-UE

No	Ders Kodu	Ders Adı	T	U	Kredi	ECTS
1	BUS1003	Entrepreneurship and Innovation	2	0	3	3
2	BUS1004	Strategic Entrepreneurship	2	0	3	3
3	BUS2005	International Business	2	0	3	3
4	CAS1001	Self Management	2	0	3	3
5	CAS1010	Our Biosphere	2	0	3	3
6	CAS1061	Geometric Origami	2	0	3	3
7	CAS2001	Energy for Physical Activity	2	0	3	3
8	CAS2002	Human Performance and Nutrition	2	0	3	3
9	CAS2003	Cardiopulmonary Resuscitation and First Aid Basics	2	0	3	3
10	CAS2004	Interpersonal Relations and Communication	2	0	3	3
11	CAS2005	Trekking and Orienteering	2	0	3	3
12	CAS3001	Earthquake and Rescue Principles	2	0	3	3
13	CAS3044	Positive Thinking	2	0	3	3
14	COMM2060	Communication Models and Techniques	2	0	3	3
15	FNCE3003	Investment Planning	2	0	3	3
16	HR1013	Career Development	2	0	3	3
17	HR4001	Career Orientation	2	0	3	3
18	HSS3002	Ethics in Engineering and Science	2	0	3	3
19	IKT1054	Industrial and Economic Sociology	2	0	3	3
20	INF1001	Information Literacy in Engineering	2	0	3	3

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TE-4,5						
No	Ders Kodu	Ders Adı	T	U	Kredi	ECTS
1	CSE4053	Information Systems: Analysis and Design	3	0	5	5
2	CSE4056	Management of Information Systems	3	0	5	5
3	CSE4057	Information Systems Security	3	0	5	5
4	CSE4066	Introduction to Cryptography	3	0	5	5
5	CSE4071	Fundamentals Principles of Programming Languages	3	0	5	5
6	CSE4072	Machine Learning	3	0	5	5
7	CSE4073	Introduction to Computer Networks	3	0	5	5
8	EE4010	VLSI Circuit Design	3	0	5	5
9	EE4011	Electronic Measurement and Instrumentation Techniques	3	0	5	5
10	EE4012	Digital Electronics	3	0	5	5
11	EE4013	Communication Electronics	3	0	5	5
12	EE4014	Industrial Electronics	3	0	5	5
13	EE4015	Op-Amps and Applications	3	0	5	5
14	EE4016	Design with Integrated Circuits	3	0	5	5
15	EE4017	Electrical Equipment and Applications	3	0	5	5
16	EE4021	Introduction to Microelectromechanical Devices and Systems	3	0	5	5
17	EE4025	Introduction to BioMEMS	3	0	5	5
18	EE4037	Microcontroller Based System Design	3	0	5	5
19	EE4042	Utilization of Electrical Energy	3	0	5	5
20	EE4043	Static Power Conversion	3	0	5	5
21	EE4044	Power System Analysis I	3	0	5	5
22	EE4045	Power System Analysis II	3	0	5	5
23	EE4046	Electrical Distribution Systems	3	0	5	5
24	EE4047	High Voltage Techniques I	3	0	5	5
25	EE4048	High Voltage Techniques II	3	0	5	5
26	EE4049	Power System Protection	3	0	5	5
27	EE4051	Electromagnetic Waves	3	0	5	5
28	EE4052	Antennas and Propagation	3	0	5	5
29	EE4053	Microwaves	3	0	5	5
30	EE4061	Introduction to Digital Signal Processing	3	0	5	5
31	EE4062	Introduction to Image Processing	3	0	5	5
32	EE4071	Linear System Theory	3	0	5	5
33	EE4072	Control Technology and Design	3	0	5	5
34	EE4073	Introduction to Optimization Theory	3	0	5	5
35	EE4074	Discrete Time Systems	3	0	5	5
36	EE4075	Nonlinear Control Systems	3	0	5	5
37	EE4076	Process Control	3	0	5	5
38	EE4081	Introduction to Information Theory	3	0	5	5
39	EE4082	Digital Communication	3	0	5	5
40	EE4083	Mobile Communication	3	0	5	5
41	EE4091	Special Topics in Electrical and Electronics Engineering	3	0	5	5
42	EE4092	Selected Topics in Electrical and Electronics Engineering	3	0	5	5

21	LAW2004	Labor Law	2	0	3	3
22	MAN1001	Principles of Managerial Economics & Financial Management	2	0	3	3
23	MGT1021	Design, Innovation and Entrepreneurship	2	0	3	3
24	MGT3082	Creativity And Innovation Management	2	0	3	3
25	MRK3082	Integrated Marketing Communication	2	0	3	3
26	MRK3084	Brand Creation/Branding	2	0	3	3
27	NTE1002	Effects Of Human Behaviour On Environment	2	0	3	3
28	NTE1003	The Culture of Radiation Safety	2	0	3	3
29	OB2040	Industrial Psychology	2	0	3	3
30	OB2041	Behavioral Sciences for Engineers	2	0	3	3
31	OB3043	Organizational Behaviour	2	0	3	3
32	SOC3082	Environmental Sociology	2	0	3	3
33	YDA1001	German for Beginners	2	0	3	3
34	YDA1002	German	2	0	3	3
35	YDA1003	German Communication	2	0	3	3
36	YDA2001	Seminars in German	2	0	3	3
37	YDIS1001	Spanish For Beginners	2	0	3	3
38	YDIS1002	Spanish	2	0	3	3