

Mühendislik Fakültesi
Metalurji ve Malzeme Mühendisliği (İngilizce) - Anadal

Genel Toplam Ders Adedi :54 T : 130 U : 38 Kredi : 260 ECTS : 260 T+U : 168

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	CHEM1001	General Chemistry I	3	2	6	6
3	CSE1023	Introduction to Computing	3	2	6	6
4	MATH1001	Calculus I	4	0	6	6
5	MSE1001	Introduction to Materials Engineering	0	2	3	3
6	PHYS1001	Physics I	4	0	5	5
7	TRD121	Türk Dili I	2	0	2	2
Toplam			18	6	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	CHEM1002	General Chemistry II	3	2	6	6
3	MATH1002	Calculus II	4	0	6	6
4	ME1061	Engineering Drawing	2	2	6	6
5	NTE_1	Non-Technical Elective - 1 (Ders 1) <small>[Bu ders NTE_1 ders grubundan alınacaktır, a a iya bakınız]</small>	2	0	3	3
6	PHYS1002	Physics II	4	0	5	5
7	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	BSE_1	Basic Science Elective-1 (Ders 1) <small>[Bu ders BSE_1 ders grubundan alınacaktır, a a iya bakınız]</small>	3	0	4	4
2	LAW2003	Business Law and Ethics	3	0	4	4
3	MATH2055	Differential Equations	3	0	4	4
4	ME2075	Statics and Strength of Materials	3	0	4	4
5	MSE2001	Materials Science I	3	0	6	6
6	MSE2003	Metallurgical Thermodynamics	3	0	5	5
7	NTE_2	Non-Technical Elective - 2 (Ders 1) <small>[Bu ders NTE_2 ders grubundan alınacaktır, a a iya bakınız]</small>	2	0	3	3
Toplam			20	0	30,00	30,00

4. YARIYIL						
No	Ders Kodu	Ders Adı	T	U	Kredi	ECTS
1	BSE_2	Basic Science Elective-2 (Ders 1) <small>[Bu ders BSE_2 ders grubundan alınacaktır, a a iya bakınız]</small>	3	0	4	4
2	EE2034	Fundamentals of Electrical & Electronics Engineering	3	0	4	4
3	MSE2002	Materials Science II	3	0	6	6
4	MSE2004	Solution Thermodynamics	3	0	5	5
5	MSE2006	Materials Laboratory	1	4	5	5
6	MSE2008	Phase Equilibria	3	0	6	6
Toplam			16	4	30,00	30,00

5. YARIYIL						
No	Ders Kodu	Ders Adı	T	U	Kredi	ECTS
1	ECON2003	Introduction to Economics	3	0	4	4
2	MSE3000	Summer Practice I	0	0	10	10
3	MSE3001	Mechanical Behavior of Materials	3	0	5	5
4	MSE3003	Transport Phenomena	2	2	6	6
5	MSE3013	Metallography	2	2	5	5
6	MSE3021	Ceramic Materials	3	2	5	5
7	MSE3031	Chemical Metallurgy I	2	2	5	5
Toplam			15	8	40,00	40,00

6. YARIYIL						
No	Ders Kodu	Ders Adı	T	U	Kredi	ECTS
1	ENG3000	Academic Presentation Skills	2	0	4	4
2	MSE3002	Deformation Processes	3	0	6	6
3	MSE3011	Physical Metallurgy	3	0	5	5
4	MSE3014	Materials Characterization	2	2	5	5
5	MSE3016	Solidification Processes	3	0	5	5
6	MSE3032	Chemical Metallurgy II	2	2	5	5
Toplam			15	4	30,00	30,00

7. YARIYIL						
No	Ders Kodu	Ders Adı	T	U	Kredi	ECTS
1	ECON2004	Engineering Economy	2	0	4	4
2	MSE4000	Summer Practice II	0	0	10	10
3	MSE4001	Degradation of Materials	2	2	5	5
4	MSE4003	Materials Selection and Design	3	0	5	5
5	MSE4097	Engineering Project I	0	4	6	6
6	TE_1	Technical Elective - 1 (Ders 1) <small>[Bu ders TE_1 ders grubundan alınacaktır, a a iya bakınız]</small>	3	0	5	5
7	TE_2	Technical Elective - 2 (Ders 1) <small>[Bu ders TE_2 ders grubundan alınacaktır, a a iya bakınız]</small>	3	0	5	5
Toplam			13	6	40,00	40,00

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8. YARIYIL						
No	Ders Kodu	Ders Adı	T	U	Kredi	ECTS
1	ENG-UE	University Elective (Ders 1) <small>[Bu ders ENG-UE ders grubundan alınacaktır, a a iya bakınız]</small>	2	0	3	3
2	MSE4012	Electrical, Optical and Magnetic Properties of Materials	3	0	5	5
3	MSE4098	Engineering Project II	0	4	6	6
4	SWP100	Social Work Practices	0	2	1	1
5	TE_3	Technical Elective - 3 (Ders 1) <small>[Bu ders TE_3 ders grubundan alınacaktır, a a iya bakınız]</small>	3	0	5	5
6	TE_4	Technical Elective - 4 (Ders 1) <small>[Bu ders TE_4 ders grubundan alınacaktır, a a iya bakınız]</small>	3	0	5	5
7	TE_5	Technical Elective - 5 (Ders 1) <small>[Bu ders TE_5 ders grubundan alınacaktır, a a iya bakınız]</small>	3	0	5	5
Toplam			14	6	30,00	30,00

NTE_1						
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
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	OB2040	Industrial Psychology	2	0	3	3
29	OB2041	Behavioral Sciences for Engineers	2	0	3	3
30	OB3043	Organizational Behaviour	2	0	3	3
31	SOC3082	Environmental Sociology	2	0	3	3
32	YDA1001	German for Beginners	2	0	3	3
33	YDA1002	German	2	0	3	3
34	YDA1003	German Communication	2	0	3	3
35	YDA2001	Seminars in German	2	0	3	3
36	YDIS1001	Spanish For Beginners	2	0	3	3
37	YDIS1002	Spanish	2	0	3	3

BSE_1						
No	Ders Kodu	Ders Adı	T	U	Kredi	ECTS
1	CHEM2001	Physical Chemistry	3	0	4	4
2	CHEM2003	Organic Chemistry	3	0	4	4
3	CHEM2005	Inorganic Chemistry	3	0	4	4
4	CHEM2009	Analytic Chemistry	3	0	4	4
5	CHEM2011	Electrochemistry	3	0	4	4
6	MATH2056	Linear Algebra	3	0	4	4
7	MATH2058	Partial Differential Equations	3	0	4	4
8	MATH2059	Numerical Methods	3	0	4	4
9	STAT2054	Statistics for Engineers	3	0	4	4

BSE_2						
No	Ders Kodu	Ders Adı	T	U	Kredi	ECTS
1	CHEM2001	Physical Chemistry	3	0	4	4
2	CHEM2003	Organic Chemistry	3	0	4	4
3	CHEM2005	Inorganic Chemistry	3	0	4	4
4	CHEM2009	Analytic Chemistry	3	0	4	4
5	CHEM2011	Electrochemistry	3	0	4	4
6	MATH2056	Linear Algebra	3	0	4	4
7	MATH2058	Partial Differential Equations	3	0	4	4
8	MATH2059	Numerical Methods	3	0	4	4
9	STAT2054	Statistics for Engineers	3	0	4	4

TE_2						
No	Ders Kodu	Ders Adı	T	U	Kredi	ECTS
1	MSE4002	Surface Treatment of Metals and Alloys	3	0	5	5
2	MSE4004	Biomaterials	3	0	5	5
3	MSE4013	Thermal Processes of Materials	3	0	5	5
4	MSE4015	Advanced Electron Microscopy and Crystallography	3	0	5	5
5	MSE4016	Structure and Properties of Engineering Alloys	3	0	5	5
6	MSE4017	Polymeric Materials	3	0	5	5
7	MSE4018	Nondestructive Evaluation of Materials	3	0	5	5
8	MSE4020	Polymer Processing	3	0	5	5
9	MSE4021	Glass Science and Technology	3	0	5	5
10	MSE4022	Cement and Concrete Technology	3	0	5	5
11	MSE4023	Ceramic Processing Techniques	3	0	5	5
12	MSE4031	Welding Technology	3	0	5	5
13	MSE4032	Foundry Technology	3	0	5	5

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NTE_2						
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
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	OB2040	Industrial Psychology	2	0	3	3
29	OB2041	Behavioral Sciences for Engineers	2	0	3	3
30	OB3043	Organizational Behaviour	2	0	3	3
31	SOC3082	Environmental Sociology	2	0	3	3
32	YDA1001	German for Beginners	2	0	3	3
33	YDA1002	German	2	0	3	3
34	YDA1003	German Communication	2	0	3	3
35	YDA2001	Seminars in German	2	0	3	3
36	YDIS1001	Spanish For Beginners	2	0	3	3
37	YDIS1002	Spanish	2	0	3	3

14	MSE4033	Non-Ferrous Metallurgy	3	0	5	5
15	MSE4035	Iron and Steel Production	3	0	5	5
16	MSE4037	Powder Technology	3	0	5	5
17	MSE4039	Composite Materials	3	0	5	5
18	MSE4044	Semiconductors	3	0	5	5
19	MSE4071	Special Topics in Materials Engineering I	3	0	5	5
20	MSE4072	Special Topics in Materials Engineering II	3	0	5	5
21	MSE4073	Materials Engineering Economics and Plant Design	3	0	5	5
22	MSE4074	Total Quality Management in Materials Engineering	3	0	5	5

TE_3						
No	Ders Kodu	Ders Adı	T	U	Kredi	ECTS
1	MSE4002	Surface Treatment of Metals and Alloys	3	0	5	5
2	MSE4004	Biomaterials	3	0	5	5
3	MSE4013	Thermal Processes of Materials	3	0	5	5
4	MSE4015	Advanced Electron Microscopy and Crystallography	3	0	5	5
5	MSE4016	Structure and Properties of Engineering Alloys	3	0	5	5
6	MSE4017	Polymeric Materials	3	0	5	5
7	MSE4018	Nondestructive Evaluation of Materials	3	0	5	5
8	MSE4020	Polymer Processing	3	0	5	5
9	MSE4021	Glass Science and Technology	3	0	5	5
10	MSE4022	Cement and Concrete Technology	3	0	5	5
11	MSE4023	Ceramic Processing Techniques	3	0	5	5
12	MSE4031	Welding Technology	3	0	5	5
13	MSE4032	Foundry Technolgy	3	0	5	5
14	MSE4033	Non-Ferrous Metallurgy	3	0	5	5
15	MSE4035	Iron and Steel Production	3	0	5	5
16	MSE4037	Powder Technology	3	0	5	5
17	MSE4039	Composite Materials	3	0	5	5
18	MSE4044	Semiconductors	3	0	5	5
19	MSE4071	Special Topics in Materials Engineering I	3	0	5	5
20	MSE4072	Special Topics in Materials Engineering II	3	0	5	5
21	MSE4073	Materials Engineering Economics and Plant Design	3	0	5	5
22	MSE4074	Total Quality Management in Materials Engineering	3	0	5	5

TE_5						
No	Ders Kodu	Ders Adı	T	U	Kredi	ECTS
1	MSE4002	Surface Treatment of Metals and Alloys	3	0	5	5
2	MSE4004	Biomaterials	3	0	5	5
3	MSE4013	Thermal Processes of Materials	3	0	5	5
4	MSE4015	Advanced Electron Microscopy and Crystallography	3	0	5	5
5	MSE4016	Structure and Properties of Engineering Alloys	3	0	5	5
6	MSE4017	Polymeric Materials	3	0	5	5
7	MSE4018	Nondestructive Evaluation of Materials	3	0	5	5
8	MSE4020	Polymer Processing	3	0	5	5
9	MSE4021	Glass Science and Technology	3	0	5	5
10	MSE4022	Cement and Concrete Technology	3	0	5	5
11	MSE4023	Ceramic Processing Techniques	3	0	5	5
12	MSE4031	Welding Technology	3	0	5	5
13	MSE4032	Foundry Technolgy	3	0	5	5
14	MSE4033	Non-Ferrous Metallurgy	3	0	5	5

TE_1						
No	Ders Kodu	Ders Adı	T	U	Kredi	ECTS
1	MSE4002	Surface Treatment of Metals and Alloys	3	0	5	5
2	MSE4004	Biomaterials	3	0	5	5
3	MSE4013	Thermal Processes of Materials	3	0	5	5
4	MSE4015	Advanced Electron Microscopy and Crystallography	3	0	5	5
5	MSE4016	Structure and Properties of Engineering Alloys	3	0	5	5
6	MSE4017	Polymeric Materials	3	0	5	5
7	MSE4018	Nondestructive Evaluation of Materials	3	0	5	5
8	MSE4020	Polymer Processing	3	0	5	5
9	MSE4021	Glass Science and Technology	3	0	5	5
10	MSE4022	Cement and Concrete Technology	3	0	5	5
11	MSE4023	Ceramic Processing Techniques	3	0	5	5

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12	MSE4031	Welding Technology	3	0	5	5
13	MSE4032	Foundry Technology	3	0	5	5
14	MSE4033	Non-Ferrous Metallurgy	3	0	5	5
15	MSE4035	Iron and Steel Production	3	0	5	5
16	MSE4037	Powder Technology	3	0	5	5
17	MSE4039	Composite Materials	3	0	5	5
18	MSE4044	Semiconductors	3	0	5	5
19	MSE4071	Special Topics in Materials Engineering I	3	0	5	5
20	MSE4072	Special Topics in Materials Engineering II	3	0	5	5
21	MSE4073	Materials Engineering Economics and Plant Design	3	0	5	5
22	MSE4074	Total Quality Management in Materials Engineering	3	0	5	5

15	MSE4035	Iron and Steel Production	3	0	5	5
16	MSE4037	Powder Technology	3	0	5	5
17	MSE4039	Composite Materials	3	0	5	5
18	MSE4044	Semiconductors	3	0	5	5
19	MSE4071	Special Topics in Materials Engineering I	3	0	5	5
20	MSE4072	Special Topics in Materials Engineering II	3	0	5	5
21	MSE4073	Materials Engineering Economics and Plant Design	3	0	5	5
22	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
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	OB2040	Industrial Psychology	2	0	3	3
29	OB2041	Behavioral Sciences for Engineers	2	0	3	3
30	OB3043	Organizational Behaviour	2	0	3	3
31	SOC3082	Environmental Sociology	2	0	3	3
32	YDA1001	German for Beginners	2	0	3	3
33	YDA1002	German	2	0	3	3
34	YDA1003	German Communication	2	0	3	3
35	YDA2001	Seminars in German	2	0	3	3
36	YDIS1001	Spanish For Beginners	2	0	3	3
37	YDIS1002	Spanish	2	0	3	3

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TE_4						
No	Ders Kodu	Ders Adı	T	U	Kredi	ECTS
1	MSE4002	Surface Treatment of Metals and Alloys	3	0	5	5
2	MSE4004	Biomaterials	3	0	5	5
3	MSE4013	Thermal Processes of Materials	3	0	5	5
4	MSE4015	Advanced Electron Microscopy and Crystallography	3	0	5	5
5	MSE4016	Structure and Properties of Engineering Alloys	3	0	5	5
6	MSE4017	Polymeric Materials	3	0	5	5
7	MSE4018	Nondestructive Evaluation of Materials	3	0	5	5
8	MSE4020	Polymer Processing	3	0	5	5
9	MSE4021	Glass Science and Technology	3	0	5	5
10	MSE4022	Cement and Concrete Technology	3	0	5	5
11	MSE4023	Ceramic Processing Techniques	3	0	5	5
12	MSE4031	Welding Technology	3	0	5	5
13	MSE4032	Foundry Technology	3	0	5	5
14	MSE4033	Non-Ferrous Metallurgy	3	0	5	5
15	MSE4035	Iron and Steel Production	3	0	5	5
16	MSE4037	Powder Technology	3	0	5	5
17	MSE4039	Composite Materials	3	0	5	5
18	MSE4044	Semiconductors	3	0	5	5
19	MSE4071	Special Topics in Materials Engineering I	3	0	5	5
20	MSE4072	Special Topics in Materials Engineering II	3	0	5	5
21	MSE4073	Materials Engineering Economics and Plant Design	3	0	5	5
22	MSE4074	Total Quality Management in Materials Engineering	3	0	5	5