

Fen Bilimleri Enstitüsü

Metalurji ve Malzeme Mühendisliği (İngilizce) / Metalurji ve Malzeme Mühendisliği (İngilizce)

Tezli Yüksek Lisans

Genel Toplam

Ders Adedi :8

T : 21

U : 2

Kredi : 60

ECTS : 60

T+U : 23

1. YARIYIL						
No	Ders Kodu	Ders Adı	T	U	Kredi	ECTS
1	MSE-CC1,2-YL	Elective -1,2 (Ders 1) <small>[Bu ders MSE-CC1,2-YL ders grubundan alınacaktır, aşağıya bakınız]</small>	3	0	8	8
2	MSE-CC1,2-YL	Elective -1,2 (Ders 2) <small>[Bu ders MSE-CC1,2-YL ders grubundan alınacaktır, aşağıya bakınız]</small>	3	0	8	8
3	MSE-EC1,2-YL	Elective -1,2 (Ders 1) <small>[Bu ders MSE-EC1,2-YL ders grubundan alınacaktır, aşağıya bakınız]</small>	3	0	8	8
4	MSE-EC1,2-YL	Elective -1,2 (Ders 2) <small>[Bu ders MSE-EC1,2-YL ders grubundan alınacaktır, aşağıya bakınız]</small>	3	0	8	8
Toplam			12	0	32	32

2. YARIYIL						
No	Ders Kodu	Ders Adı	T	U	Kredi	ECTS
1	MSE7000	Seminar	0	2	4	4
2	MSE-C3-YL	Core- 3 (Ders 1) <small>[Bu ders MSE-C3-YL ders grubundan alınacaktır, aşağıya bakınız]</small>	3	0	8	8
3	MSE-EC3,4-YL	Elective - 3-4 (Ders 1) <small>[Bu ders MSE-EC3,4-YL ders grubundan alınacaktır, aşağıya bakınız]</small>	3	0	8	8
4	MSE-EC3,4-YL	Elective - 3-4 (Ders 2) <small>[Bu ders MSE-EC3,4-YL ders grubundan alınacaktır, aşağıya bakınız]</small>	3	0	8	8
Toplam			9	2	28	28

MSE-CC1,2-YL						
No	Ders Kodu	Ders Adı	T	U	Kredi	ECTS
1	MSE7001	Advanced Thermodynamics of Materials	3	0	8	8
2	MSE7003	Advanced Crystallography and Diffraction Studies	3	0	8	8
3	MSE7005	Kinetics in Materials Processes	3	0	8	8
4	MSE7007	Advanced Materials Characterization	3	0	8	8
5	MSE7061	Applied Engineering Mathematics	3	0	8	8
6	MSE7063	Computer Applications in Materials Engineering	3	0	8	8

MSE-EC1,2-YL						
No	Ders Kodu	Ders Adı	T	U	Kredi	ECTS
1	CHE7054	Fluidization Technology	3	0	8	8
2	MSE7001	Advanced Thermodynamics of Materials	3	0	8	8
3	MSE7003	Advanced Crystallography and Diffraction Studies	3	0	8	8
4	MSE7005	Kinetics in Materials Processes	3	0	8	8
5	MSE7007	Advanced Materials Characterization	3	0	8	8
6	MSE7011	Advanced Solidification	3	0	8	8
7	MSE7012	Advanced Phase Diagrams	3	0	8	8
8	MSE7014	Advanced Die Casting Processes	3	0	8	8
9	MSE7021	Materials Surfaces and Interfaces	3	0	8	8
10	MSE7022	Surface Modification of Materials	3	0	8	8
11	MSE7023	Deformation and Fracture Mechanics of Solids	3	0	8	8
12	MSE7024	Advanced Ceramic Forming Processes	3	0	8	8
13	MSE7026	Thermal Processing of Ceramics	3	0	8	8
14	MSE7027	Thermal Spray Coatings	3	0	8	8
15	MSE7028	Nanomaterials: Synthesis, Properties and Applications	3	0	8	8
16	MSE7029	Chemical Processing of Ceramics	3	0	8	8
17	MSE7030	Polymer Rheology	3	0	8	8
18	MSE7031	Electronic Ceramics	3	0	8	8
19	MSE7032	Glass Ceramics and Technology	3	0	8	8
20	MSE7033	Advanced Engineering Ceramics	3	0	8	8
21	MSE7034	Joining Technologies of Materials	3	0	8	8
22	MSE7036	Properties, Processing, Characterization of Nanocomposite Materials	3	0	8	8
23	MSE7040	Electronic, Magnetic and Optical Properties of Materials	3	0	8	8
24	MSE7041	Solar Cells Theory and Technology	3	0	8	8
25	MSE7061	Applied Engineering Mathematics	3	0	8	8
26	MSE7070	Waste Processing and Recycling in Materials Industry	3	0	8	8
27	MSE7071	Introduction to Basic Nuclear Concepts and Nuclear Materials	3	0	8	8
28	MSE7081	Materials Selection in Design	3	0	8	8
29	MSE7082	Advanced Studies in Materials Engineering	3	0	8	8
30	MSE7083	Advanced Topics in Materials Engineering	3	0	8	8
31	MSE7085	Principles and Technology of Drying	3	0	8	8
32	MSE7763	Computer Applications in Materials Engineering	3	0	8	8

MSE-C3-YL						
No	Ders Kodu	Ders Adı	T	U	Kredi	ECTS
1	MSE7001	Advanced Thermodynamics of Materials	3	0	8	8
2	MSE7003	Advanced Crystallography and Diffraction Studies	3	0	8	8
3	MSE7005	Kinetics in Materials Processes	3	0	8	8
4	MSE7007	Advanced Materials Characterization	3	0	8	8
5	MSE7061	Applied Engineering Mathematics	3	0	8	8
6	MSE7063	Computer Applications in Materials Engineering	3	0	8	8

MSE-EC3,4-YL						
No	Ders Kodu	Ders Adı	T	U	Kredi	ECTS
1	CHE7054	Fluidization Technology	3	0	8	8

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2	MSE7001	Advanced Thermodynamics of Materials	3	0	8	8
3	MSE7003	Advanced Crystallography and Diffraction Studies	3	0	8	8
4	MSE7005	Kinetics in Materials Processes	3	0	8	8
5	MSE7007	Advanced Materials Characterization	3	0	8	8
6	MSE7011	Advanced Solidification	3	0	8	8
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23	MSE7040	Electronic, Magnetic and Optical Properties of Materials	3	0	8	8
24	MSE7041	Solar Cells Theory and Technology	3	0	8	8
25	MSE7061	Applied Engineering Mathematics	3	0	8	8
26	MSE7070	Waste Processing and Recycling in Materials Industry	3	0	8	8
27	MSE7071	Introduction to Basic Nuclear Concepts and Nuclear Materials	3	0	8	8
28	MSE7081	Materials Selection in Design	3	0	8	8
29	MSE7082	Advanced Studies in Materials Engineering	3	0	8	8
30	MSE7083	Advanced Topics in Materials Engineering	3	0	8	8
31	MSE7085	Principles and Technology of Drying	3	0	8	8
32	MSE7763	Computer Applications in Materials Engineering	3	0	8	8