

Fen Bilimleri Enstitüsü
Makine Mühendisliği (İngilizce) / Makine 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	ME-CC1,2-YL	Core - 1-2 (Ders 1) [Bu ders ME-CC1,2-YL ders grubundan alınacaktır, aşağıya bakınız]	3	0	8 8
2	ME-CC1,2-YL	Core - 1-2 (Ders 2) [Bu ders ME-CC1,2-YL ders grubundan alınacaktır, aşağıya bakınız]	3	0	8 8
3	ME-EC1,2-YL	Elective - 1-2 (Ders 1) [Bu ders ME-EC1,2-YL ders grubundan alınacaktır, aşağıya bakınız]	3	0	8 8
4	ME-EC1,2-YL	Elective - 1-2 (Ders 2) [Bu ders ME-EC1,2-YL ders grubundan alınacaktır, aşağıya bakınız]	3	0	8 8
Toplam			12	0	32 32

2. YARIYIL					
No	Ders Kodu	Ders Adı	T	U	Kredi ECTS
1	ME7000	Seminar	0	2	4 4
2	ME-CC3,4-YL	Core - 3-4 (Ders 1) [Bu ders ME-CC3,4-YL ders grubundan alınacaktır, aşağıya bakınız]	3	0	8 8
3	ME-CC3,4-YL	Core - 3-4 (Ders 2) [Bu ders ME-CC3,4-YL ders grubundan alınacaktır, aşağıya bakınız]	3	0	8 8
4	ME-EC3-YL	Elective - 3 (Ders 1) [Bu ders ME-EC3-YL ders grubundan alınacaktır, aşağıya bakınız]	3	0	8 8
Toplam			9	2	28 28

ME-CC1,2-YL					
No	Ders Kodu	Ders Adı	T	U	Kredi ECTS
1	ME7001	Numerical Methods for Engineers	3	0	8 8
2	ME7002	Advanced Strength of Materials	3	0	8 8
3	ME7003	Advanced Mathematics for Mechanical Engineers	3	0	8 8
4	ME7004	Mathematical Methods for Engineers	3	0	8 8
5	ME7005	Advanced Fluid Mechanics	3	0	8 8
6	ME7006	Advanced Heat and Mass Transfer	3	0	8 8
7	ME7007	Advanced Dynamics	3	0	8 8
8	ME7009	Advanced System Dynamics and Control	3	0	8 8
9	ME7011	Advanced Thermodynamics	3	0	8 8

ME-EC1,2-YL					
No	Ders Kodu	Ders Adı	T	U	Kredi ECTS
1	ME7002	Advanced Strength of Materials	3	0	8 8
2	ME7005	Advanced Fluid Mechanics	3	0	8 8
3	ME7006	Advanced Heat and Mass Transfer	3	0	8 8
4	ME7007	Advanced Dynamics	3	0	8 8
5	ME7009	Advanced System Dynamics and Control	3	0	8 8
6	ME7010	Principles of Design	3	0	8 8
7	ME7011	Advanced Thermodynamics	3	0	8 8
8	ME7012	Kinematic and Dynamic Analysis of Mechanisms	3	0	8 8
9	ME7013	Mechanics of Engineering Composites	3	0	8 8
10	ME7014	Applied Elasticity	3	0	8 8
11	ME7015	Design Optimization	3	0	8 8
12	ME7016	Finite Element Method	3	0	8 8
13	ME7017	Computer Aided Product Design	3	0	8 8
14	ME7018	Computational Methods in Dynamics	3	0	8 8
15	ME7019	Introduction Continuum Mechanics	3	0	8 8
16	ME7020	Principles of Robotics	3	0	8 8
17	ME7021	Artificial Intelligent Techniques in Engineering Applications	3	0	8 8
18	ME7022	Analysis and Design of Discrete Time Systems	3	0	8 8
19	ME7023	Advanced Material Science	3	0	8 8
20	ME7024	Industrial Process Control	3	0	8 8
21	ME7025	Advanced Probability	3	0	8 8
22	ME7026	Non-Traditional Production Processes	3	0	8 8
23	ME7027	Advanced Vibrations	3	0	8 8
24	ME7028	Optimal Control Systems	3	0	8 8
25	ME7029	Vibration Measurement and Analysis	3	0	8 8
26	ME7030	Computational Fluid Dynamics	3	0	8 8
27	ME7031	Solar Energy Utilization	3	0	8 8
28	ME7032	Combustion	3	0	8 8
29	ME7033	Internal Combustion Engine Modeling	3	0	8 8
30	ME7034	Design of Thermo-Fluid Systems	3	0	8 8
31	ME7035	Advanced Heating, Ventilation and Air Conditioning	3	0	8 8
32	ME7036	Introduction to Renewable Energy Systems and Technologies	3	0	8 8
33	ME7037	Ideal Fluid Flow	3	0	8 8
34	ME7038	Second Law Analysis and Thermoeconomics of Energy Systems	3	0	8 8
35	ME7039	Fluid Power Control	3	0	8 8
36	ME7040	Turbulent Flow	3	0	8 8
37	ME7042	Experimental Methods in Fluids	3	0	8 8
38	ME7051	Special Topics in Mechanics	3	0	8 8

ME-CC3,4-YL					
No	Ders Kodu	Ders Adı	T	U	Kredi ECTS
1	ME7001	Numerical Methods for Engineers	3	0	8 8
2	ME7002	Advanced Strength of Materials	3	0	8 8
3	ME7003	Advanced Mathematics for Mechanical Engineers	3	0	8 8
4	ME7004	Mathematical Methods for Engineers	3	0	8 8
5	ME7005	Advanced Fluid Mechanics	3	0	8 8
6	ME7006	Advanced Heat and Mass Transfer	3	0	8 8
7	ME7007	Advanced Dynamics	3	0	8 8
8	ME7009	Advanced System Dynamics and Control	3	0	8 8
9	ME7011	Advanced Thermodynamics	3	0	8 8

Fen Bilimleri Enstitüsü
Makine Mühendisliği (İngilizce) / Makine Mühendisliği (İngilizce)
Tezli Yüksek Lisans

Genel Toplam Ders Adedi :8 T : 21 U : 2 Kredi : 60 ECTS : 60 T+U : 23

39	ME7052	Special Topics in Thermal Systems	3	0	8	8
40	ME7053	Special Topics in Thermal Sciences	3	0	8	8
41	ME7054	Special Topics in Transport Phenomenon	3	0	8	8
42	ME7055	Special Topics in Product Design and Manufacturing	3	0	8	8
43	ME7056	Special Topics in Control	3	0	8	8

ME-EC3-YL						
No	Ders Kodu	Ders Adı	T	U	Kredi	ECTS
1	ME7002	Advanced Strength of Materials	3	0	8	8
2	ME7005	Advanced Fluid Mechanics	3	0	8	8
3	ME7006	Advanced Heat and Mass Transfer	3	0	8	8
4	ME7007	Advanced Dynamics	3	0	8	8
5	ME7009	Advanced System Dynamics and Control	3	0	8	8
6	ME7010	Principles of Design	3	0	8	8
7	ME7011	Advanced Thermodynamics	3	0	8	8
8	ME7012	Kinematic and Dynamic Analysis of Mechanisms	3	0	8	8
9	ME7013	Mechanics of Engineering Composites	3	0	8	8
10	ME7014	Applied Elasticity	3	0	8	8
11	ME7015	Design Optimization	3	0	8	8
12	ME7016	Finite Element Method	3	0	8	8
13	ME7017	Computer Aided Product Design	3	0	8	8
14	ME7018	Computational Methods in Dynamics	3	0	8	8
15	ME7019	Introduction Continuum Mechanics	3	0	8	8
16	ME7020	Principles of Robotics	3	0	8	8
17	ME7021	Artificial Intelligent Techniques in Engineering Applications	3	0	8	8
18	ME7022	Analysis and Design of Discrete Time Systems	3	0	8	8
19	ME7023	Advanced Material Science	3	0	8	8
20	ME7024	Industrial Process Control	3	0	8	8
21	ME7025	Advanced Probability	3	0	8	8
22	ME7026	Non-Traditional Production Processes	3	0	8	8
23	ME7027	Advanced Vibrations	3	0	8	8
24	ME7028	Optimal Control Systems	3	0	8	8
25	ME7029	Vibration Measurement and Analysis	3	0	8	8
26	ME7030	Computational Fluid Dynamics	3	0	8	8
27	ME7031	Solar Energy Utilization	3	0	8	8
28	ME7032	Combustion	3	0	8	8
29	ME7033	Internal Combustion Engine Modeling	3	0	8	8
30	ME7034	Design of Thermo-Fluid Systems	3	0	8	8
31	ME7035	Advanced Heating, Ventilation and Air Conditioning	3	0	8	8
32	ME7036	Introduction to Renewable Energy Systems and Technologies	3	0	8	8
33	ME7037	Ideal Fluid Flow	3	0	8	8
34	ME7038	Second Law Analysis and Thermo-economics of Energy Systems	3	0	8	8
35	ME7039	Fluid Power Control	3	0	8	8
36	ME7040	Turbulent Flow	3	0	8	8
37	ME7042	Experimental Methods in Fluids	3	0	8	8
38	ME7051	Special Topics in Mechanics	3	0	8	8
39	ME7052	Special Topics in Thermal Systems	3	0	8	8
40	ME7053	Special Topics in Thermal Sciences	3	0	8	8
41	ME7054	Special Topics in Transport Phenomenon	3	0	8	8
42	ME7055	Special Topics in Product Design and Manufacturing	3	0	8	8

Fen Bilimleri Enstitüsü
Makine Mühendisliđi (İngilizce) / Makine Mühendisliđi (İngilizce)
Tezli Yüksek Lisans

Genel Toplam Ders Adedi :8 T : 21 U : 2 Kredi : 60 ECTS : 60 T+U : 23

43	ME7056	Special Topics in Control	3	0	8	8
----	--------	---------------------------	---	---	---	---