

**Mühendislik Fakültesi**  
**Endüstri Mühendisliği (İngilizce)**

**Lisans**

**Genel Toplam    Ders Adedi : 51    T : 128    U : 30    Kredi : 260    ECTS : 260    T+U : 158**

**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	CSE1043	Computer Programming for Industrial Engineering	3	2	6	6
4	IE1001	Introduction to Industrial Engineering	2	0	3	3
5	MATH1001	Calculus I	4	0	6	6
6	PHYS1001	Physics I	4	0	5	5
7	TRD121	Türk Dili I	2	0	2	2
Toplam			21	2	30	30

**2. YARIYIL**

No	Ders Kodu	Ders Adı	T	U	Kredi	ECTS
1	ATA122	Atatürk İlkeleri ve İnkılap Tarihi II	2	0	2	2
2	CSE1044	Intermediate Programming for Industrial Engineering	3	2	6	6
3	IE1002	Industrial Engineering Fundamentals	2	0	3	3
4	MATH1002	Calculus II	4	0	6	6
5	ME1061	Engineering Drawing	2	2	6	6
6	PHYS1002	Physics II	4	0	5	5
7	TRD122	Türk Dili II	2	0	2	2
Toplam			19	4	30	30

**3. YARIYIL**

No	Ders Kodu	Ders Adı	T	U	Kredi	ECTS
1	ECON2003	Introduction to Economics	3	0	4	4
2	IE2051	Probability for Industrial Engineers	3	2	11	11
3	MATH2055	Differential Equations	3	0	4	4
4	ME2075	Statics and Strength of Materials	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			17	2	30	30

**4. YARIYIL**

No	Ders Kodu	Ders Adı	T	U	Kredi	ECTS
1	ECON2004	Engineering Economy	2	0	4	4
2	IE2032	Introduction to Operations Research	2	0	4	4
3	IE2052	Statistics for Industrial Engineers	3	2	10	10
4	MATH2056	Linear Algebra	3	0	4	4
5	MATH2059	Numerical Methods	3	0	4	4
6	NTE_2	Non-Technical Elective - 2 (Ders 1) <small>[Bu ders NTE_2 ders grubundan alınacaktır, aşağıya bakınız]</small>	2	0	3	3
7	SWP100	Social Work Practices	0	2	1	1
Toplam			15	4	30	30

**5. YARIYIL**

No	Ders Kodu	Ders Adı	T	U	Kredi	ECTS
1	ACC3013	Cost Accounting	3	0	5	5
2	IE3000	Summer Practice I	0	0	10	10
3	IE3025	Production Planning and Control I	3	2	7	7
4	IE3033	Operations Research I	3	2	6	6
5	IE3045	Introduction to Management Information Systems	3	0	6	6
6	IE3085	Quality Methods	3	0	6	6
Toplam			15	4	40	40

**6. YARIYIL**

No	Ders Kodu	Ders Adı	T	U	Kredi	ECTS
1	IE3026	Production Planning and Control II	3	2	6	6
2	IE3034	Operations Research II	3	2	7	7
3	IE3040	Systems Engineering	3	0	5	5
4	IE3064	Introduction to Simulation	3	2	7	7
5	TE_1	Technical Elective - 1 (Ders 1) <small>[Bu ders TE_1 ders grubundan alınacaktır, aşağıya bakınız]</small>	3	0	5	5
Toplam			15	6	30	30

**7. 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, aşağıya bakınız]</small>	2	0	3	3
2	IE4000	Summer Practice II	0	0	10	10
3	IE4027	Scheduling and Sequencing	2	2	5	5
4	IE4031	Decision Analysis	3	0	5	5
5	IE4097	Engineering Project - I	0	2	7	7
6	TE_2	Technical Elective - 2 (Ders 1) <small>[Bu ders TE_2 ders grubundan alınacaktır, aşağıya bakınız]</small>	3	0	5	5
7	TE_3	Technical Elective - 3 (Ders 1) <small>[Bu ders TE_3 ders grubundan alınacaktır, aşağıya bakınız]</small>	3	0	5	5
Toplam			13	4	40	40

**8. YARIYIL**

No	Ders Kodu	Ders Adı	T	U	Kredi	ECTS
1	IE4036	Project Management	2	2	5	5
2	IE4098	Engineering Project - II	0	2	8	8
3	LAW2003	Business Law and Ethics	3	0	4	4
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_4	Technical Elective - 4 (Ders 1) <small>[Bu ders TE_4 ders grubundan alınacaktır, aşağıya bakınız]</small>	3	0	5	5
6	TE_5	Technical Elective - 5 (Ders 1) <small>[Bu ders TE_5 ders grubundan alınacaktır, aşağıya bakınız]</small>	3	0	5	5
Toplam			13	4	30	30

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

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

TE_1						
No	Ders Kodu	Ders Adı	T	U	Kredi	ECTS
1	ACC4017	Financial Accounting	3	0	5	5
2	ACC4018	Managerial Accounting	3	0	5	5
3	CSE3096	Database Management Systems	3	0	5	5
4	ECON4001	Managerial Economics	3	0	5	5
5	FNCE4016	Finance for Engineers	3	0	5	5
6	IE3024	Manufacturing Processes	3	0	5	5
7	IE3027	ERP Tools, Techniques and Applications	3	0	5	5
8	IE3040	Systems Engineering	3	0	5	5
9	IE3044	Human Factors Engineering	3	0	5	5
10	IE3047	Innovation Management	3	0	5	5
11	IE3050	Green Engineering	3	0	5	5
12	IE3053	Sustainability	3	0	5	5
13	IE3056	Risk Management	3	0	5	5
14	IE3061	Computer Aided Design / Manufacturing	3	0	5	5
15	IE3062	Computer Aided Engineering	3	0	5	5
16	IE3065	Advanced Programming	3	0	5	5
17	IE3074	Ergonomics	3	0	5	5
18	IE3075	Occupational Health and Safety	3	0	5	5
19	IE3087	Process Management	3	0	5	5
20	IE3088	Quality Audit	3	0	5	5
21	IE4025	Facilities Planning	3	0	5	5
22	IE4032	Introduction to Graph Theory	3	0	5	5
23	IE4033	Heuristics Solution Methods	3	0	5	5
24	IE4035	Game Theory	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

25	IE4037	Intelligent Manufacturing Systems	3	0	5	5
26	IE4038	Artificial Intelligence in Industrial Engineering	3	0	5	5
27	IE4042	Enterprise Information Systems	3	0	5	5
28	IE4043	Applied Data Mining	3	0	5	5
29	IE4046	Manufacturing Systems	3	0	5	5
30	IE4052	Supply Chain Management	3	0	5	5
31	IE4053	Introduction to Stochastic Processes	3	0	5	5
32	IE4055	Design of Experiments	3	0	5	5
33	IE4058	Econometrics and Forecasting	3	0	5	5
34	IE4059	Queuing Theory	3	0	5	5
35	IE4061	Computer Integrated Manufacturing	3	0	5	5
36	IE4071	Technology and Research & Development Management	3	0	5	5
37	IE4075	Foreign Expansions and Trade Techniques	3	0	5	5
38	IE4087	Introduction to Total Quality Management	3	0	5	5
39	IE4088	Reliability Theory	3	0	5	5
40	IE4093	Seminars in Industrial Engineering	3	0	5	5
41	IE4094	Special Topics in Industrial Engineering	3	0	5	5
42	IE4095	Special Topics in Operations Research	3	0	5	5
43	IE4096	Current Topics in Industrial Engineering	3	0	5	5
44	MGT3072	Principles of Management	3	0	5	5
45	MGT4065	Entrepreneurship and Small Business Management	3	0	5	5
46	MGT4066	Management of Change	3	0	5	5
47	MGT4073	Strategic Management I	3	0	5	5
48	MGT4074	Strategic Management II	3	0	5	5
49	MRK3071	Marketing Management	3	0	5	5

TE_2						
No	Ders Kodu	Ders Adı	T	U	Kredi	ECTS
1	ACC4017	Financial Accounting	3	0	5	5
2	ACC4018	Managerial Accounting	3	0	5	5
3	CSE3096	Database Management Systems	3	0	5	5
4	ECON4001	Managerial Economics	3	0	5	5
5	FNCE4016	Finance for Engineers	3	0	5	5
6	IE3024	Manufacturing Processes	3	0	5	5
7	IE3027	ERP Tools, Techniques and Applications	3	0	5	5
8	IE3040	Systems Engineering	3	0	5	5
9	IE3044	Human Factors Engineering	3	0	5	5
10	IE3047	Innovation Management	3	0	5	5
11	IE3050	Green Engineering	3	0	5	5
12	IE3053	Sustainability	3	0	5	5
13	IE3056	Risk Management	3	0	5	5
14	IE3061	Computer Aided Design / Manufacturing	3	0	5	5
15	IE3062	Computer Aided Engineering	3	0	5	5
16	IE3065	Advanced Programming	3	0	5	5
17	IE3074	Ergonomics	3	0	5	5
18	IE3075	Occupational Health and Safety	3	0	5	5
19	IE3087	Process Management	3	0	5	5
20	IE3088	Quality Audit	3	0	5	5
21	IE4025	Facilities Planning	3	0	5	5
22	IE4032	Introduction to Graph Theory	3	0	5	5
23	IE4033	Heuristics Solution Methods	3	0	5	5
24	IE4035	Game Theory	3	0	5	5
25	IE4037	Intelligent Manufacturing Systems	3	0	5	5
26	IE4038	Artificial Intelligence in Industrial Engineering	3	0	5	5
27	IE4042	Enterprise Information Systems	3	0	5	5
28	IE4043	Applied Data Mining	3	0	5	5
29	IE4046	Manufacturing Systems	3	0	5	5
30	IE4052	Supply Chain Management	3	0	5	5
31	IE4053	Introduction to Stochastic Processes	3	0	5	5
32	IE4055	Design of Experiments	3	0	5	5
33	IE4058	Econometrics and Forecasting	3	0	5	5
34	IE4059	Queuing Theory	3	0	5	5
35	IE4061	Computer Integrated Manufacturing	3	0	5	5
36	IE4071	Technology and Research & Development Management	3	0	5	5
37	IE4075	Foreign Expansions and Trade Techniques	3	0	5	5
38	IE4087	Introduction to Total Quality Management	3	0	5	5
39	IE4088	Reliability Theory	3	0	5	5
40	IE4093	Seminars in Industrial Engineering	3	0	5	5
41	IE4094	Special Topics in Industrial Engineering	3	0	5	5
42	IE4095	Special Topics in Operations Research	3	0	5	5
43	IE4096	Current Topics in Industrial Engineering	3	0	5	5
44	MGT3072	Principles of Management	3	0	5	5

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

TE_3						
No	Ders Kodu	Ders Adı	T	U	Kredi	ECTS
1	ACC4017	Financial Accounting	3	0	5	5
2	ACC4018	Managerial Accounting	3	0	5	5
3	CSE3096	Database Management Systems	3	0	5	5
4	ECON4001	Managerial Economics	3	0	5	5
5	FNCE4016	Finance for Engineers	3	0	5	5
6	IE3024	Manufacturing Processes	3	0	5	5
7	IE3027	ERP Tools, Techniques and Applications	3	0	5	5
8	IE3040	Systems Engineering	3	0	5	5
9	IE3044	Human Factors Engineering	3	0	5	5
10	IE3047	Innovation Management	3	0	5	5
11	IE3050	Green Engineering	3	0	5	5
12	IE3053	Sustainability	3	0	5	5
13	IE3056	Risk Management	3	0	5	5
14	IE3061	Computer Aided Design / Manufacturing	3	0	5	5
15	IE3062	Computer Aided Engineering	3	0	5	5
16	IE3065	Advanced Programming	3	0	5	5
17	IE3074	Ergonomics	3	0	5	5
18	IE3075	Occupational Health and Safety	3	0	5	5
19	IE3087	Process Management	3	0	5	5
20	IE3088	Quality Audit	3	0	5	5
21	IE4025	Facilities Planning	3	0	5	5
22	IE4032	Introduction to Graph Theory	3	0	5	5
23	IE4033	Heuristics Solution Methods	3	0	5	5
24	IE4035	Game Theory	3	0	5	5
25	IE4037	Intelligent Manufacturing Systems	3	0	5	5
26	IE4038	Artificial Intelligence in Industrial Engineering	3	0	5	5
27	IE4042	Enterprise Information Systems	3	0	5	5
28	IE4043	Applied Data Mining	3	0	5	5
29	IE4046	Manufacturing Systems	3	0	5	5
30	IE4052	Supply Chain Management	3	0	5	5
31	IE4053	Introduction to Stochastic Processes	3	0	5	5
32	IE4055	Design of Experiments	3	0	5	5
33	IE4058	Econometrics and Forecasting	3	0	5	5
34	IE4059	Queuing Theory	3	0	5	5
35	IE4061	Computer Integrated Manufacturing	3	0	5	5
36	IE4071	Technology and Research & Development Management	3	0	5	5
37	IE4075	Foreign Expansions and Trade Techniques	3	0	5	5
38	IE4087	Introduction to Total Quality Management	3	0	5	5
39	IE4088	Reliability Theory	3	0	5	5
40	IE4093	Seminars in Industrial Engineering	3	0	5	5
41	IE4094	Special Topics in Industrial Engineering	3	0	5	5
42	IE4095	Special Topics in Operations Research	3	0	5	5
43	IE4096	Current Topics in Industrial Engineering	3	0	5	5
44	MGT3072	Principles of Management	3	0	5	5

35	IE4061	Computer Integrated Manufacturing	3	0	5	5
36	IE4071	Technology and Research & Development Management	3	0	5	5
37	IE4075	Foreign Expansions and Trade Techniques	3	0	5	5
38	IE4087	Introduction to Total Quality Management	3	0	5	5
39	IE4088	Reliability Theory	3	0	5	5
40	IE4093	Seminars in Industrial Engineering	3	0	5	5
41	IE4094	Special Topics in Industrial Engineering	3	0	5	5
42	IE4095	Special Topics in Operations Research	3	0	5	5
43	IE4096	Current Topics in Industrial Engineering	3	0	5	5
44	MGT3072	Principles of Management	3	0	5	5
45	MGT4065	Entrepreneurship and Small Business Management	3	0	5	5
46	MGT4066	Management of Change	3	0	5	5
47	MGT4073	Strategic Management I	3	0	5	5
48	MGT4074	Strategic Management II	3	0	5	5
49	MRK3071	Marketing Management	3	0	5	5

45	MGT4065	Entrepreneurship and Small Business Management	3	0	5	5
46	MGT4066	Management of Change	3	0	5	5
47	MGT4073	Strategic Management I	3	0	5	5
48	MGT4074	Strategic Management II	3	0	5	5
49	MRK3071	Marketing Management	3	0	5	5

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
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

TE_4						
No	Ders Kodu	Ders Adı	T	U	Kredi	ECTS
1	ACC4017	Financial Accounting	3	0	5	5
2	ACC4018	Managerial Accounting	3	0	5	5
3	CSE3096	Database Management Systems	3	0	5	5
4	ECON4001	Managerial Economics	3	0	5	5
5	FNCE4016	Finance for Engineers	3	0	5	5
6	IE3024	Manufacturing Processes	3	0	5	5
7	IE3027	ERP Tools, Techniques and Applications	3	0	5	5
8	IE3040	Systems Engineering	3	0	5	5
9	IE3044	Human Factors Engineering	3	0	5	5
10	IE3047	Innovation Management	3	0	5	5
11	IE3050	Green Engineering	3	0	5	5
12	IE3053	Sustainability	3	0	5	5
13	IE3056	Risk Management	3	0	5	5
14	IE3061	Computer Aided Design / Manufacturing	3	0	5	5
15	IE3062	Computer Aided Engineering	3	0	5	5
16	IE3065	Advanced Programming	3	0	5	5
17	IE3074	Ergonomics	3	0	5	5
18	IE3075	Occupational Health and Safety	3	0	5	5
19	IE3087	Process Management	3	0	5	5
20	IE3088	Quality Audit	3	0	5	5
21	IE4025	Facilities Planning	3	0	5	5
22	IE4032	Introduction to Graph Theory	3	0	5	5
23	IE4033	Heuristics Solution Methods	3	0	5	5
24	IE4035	Game Theory	3	0	5	5
25	IE4037	Intelligent Manufacturing Systems	3	0	5	5
26	IE4038	Artificial Intelligence in Industrial Engineering	3	0	5	5
27	IE4042	Enterprise Information Systems	3	0	5	5
28	IE4043	Applied Data Mining	3	0	5	5
29	IE4046	Manufacturing Systems	3	0	5	5
30	IE4052	Supply Chain Management	3	0	5	5
31	IE4053	Introduction to Stochastic Processes	3	0	5	5
32	IE4055	Design of Experiments	3	0	5	5
33	IE4058	Econometrics and Forecasting	3	0	5	5
34	IE4059	Queueing Theory	3	0	5	5
35	IE4061	Computer Integrated Manufacturing	3	0	5	5
36	IE4071	Technology and Research & Development Management	3	0	5	5
37	IE4075	Foreign Expansions and Trade Techniques	3	0	5	5
38	IE4087	Introduction to Total Quality Management	3	0	5	5
39	IE4088	Reliability Theory	3	0	5	5
40	IE4093	Seminars in Industrial Engineering	3	0	5	5
41	IE4094	Special Topics in Industrial Engineering	3	0	5	5
42	IE4095	Special Topics in Operations Research	3	0	5	5
43	IE4096	Current Topics in Industrial Engineering	3	0	5	5
44	MGT3072	Principles of Management	3	0	5	5
45	MGT4065	Entrepreneurship and Small Business Management	3	0	5	5
46	MGT4066	Management of Change	3	0	5	5
47	MGT4073	Strategic Management I	3	0	5	5
48	MGT4074	Strategic Management II	3	0	5	5
49	MRK3071	Marketing Management	3	0	5	5

**TE\_5**

No	Ders Kodu	Ders Adı	T	U	Kredi	ECTS
1	ACC4017	Financial Accounting	3	0	5	5
2	ACC4018	Managerial Accounting	3	0	5	5
3	CSE3096	Database Management Systems	3	0	5	5
4	ECON4001	Managerial Economics	3	0	5	5
5	FNCE4016	Finance for Engineers	3	0	5	5
6	IE3024	Manufacturing Processes	3	0	5	5
7	IE3027	ERP Tools, Techniques and Applications	3	0	5	5
8	IE3040	Systems Engineering	3	0	5	5
9	IE3044	Human Factors Engineering	3	0	5	5
10	IE3047	Innovation Management	3	0	5	5
11	IE3050	Green Engineering	3	0	5	5
12	IE3053	Sustainability	3	0	5	5
13	IE3056	Risk Management	3	0	5	5
14	IE3061	Computer Aided Design / Manufacturing	3	0	5	5
15	IE3062	Computer Aided Engineering	3	0	5	5
16	IE3065	Advanced Programming	3	0	5	5
17	IE3074	Ergonomics	3	0	5	5
18	IE3075	Occupational Health and Safety	3	0	5	5
19	IE3087	Process Management	3	0	5	5
20	IE3088	Quality Audit	3	0	5	5
21	IE4025	Facilities Planning	3	0	5	5
22	IE4032	Introduction to Graph Theory	3	0	5	5
23	IE4033	Heuristics Solution Methods	3	0	5	5
24	IE4035	Game Theory	3	0	5	5
25	IE4037	Intelligent Manufacturing Systems	3	0	5	5
26	IE4038	Artificial Intelligence in Industrial Engineering	3	0	5	5
27	IE4042	Enterprise Information Systems	3	0	5	5
28	IE4043	Applied Data Mining	3	0	5	5
29	IE4046	Manufacturing Systems	3	0	5	5
30	IE4052	Supply Chain Management	3	0	5	5
31	IE4053	Introduction to Stochastic Processes	3	0	5	5
32	IE4055	Design of Experiments	3	0	5	5
33	IE4058	Econometrics and Forecasting	3	0	5	5
34	IE4059	Queueing Theory	3	0	5	5
35	IE4061	Computer Integrated Manufacturing	3	0	5	5
36	IE4071	Technology and Research & Development Management	3	0	5	5
37	IE4075	Foreign Expansions and Trade Techniques	3	0	5	5
38	IE4087	Introduction to Total Quality Management	3	0	5	5
39	IE4088	Reliability Theory	3	0	5	5
40	IE4093	Seminars in Industrial Engineering	3	0	5	5
41	IE4094	Special Topics in Industrial Engineering	3	0	5	5
42	IE4095	Special Topics in Operations Research	3	0	5	5
43	IE4096	Current Topics in Industrial Engineering	3	0	5	5
44	MGT3072	Principles of Management	3	0	5	5
45	MGT4065	Entrepreneurship and Small Business Management	3	0	5	5
46	MGT4066	Management of Change	3	0	5	5
47	MGT4073	Strategic Management I	3	0	5	5
48	MGT4074	Strategic Management II	3	0	5	5
49	MRK3071	Marketing Management	3	0	5	5