

1. YARIYIL / SEMESTER 1

KODU CODE	DERSİN ADI COURSE NAME	T T	U A	KREDİ CREDITS	AKTS ECTS	ZORUNLU/ SEÇMELİ COMPULSORY/ ELECTIVE	AÇIKLAMA EXPLANATION
INE101	Physics / Fizik	4	0	4	5	Z / C	
INE103	Calculus – 1 / Matematik - 1	4	0	4	6	Z / C	
INE105	Introduction to Industrial Engineering / Endüstri Mühendisliğine Giriş	2	0	2	2	Z / C	
INE107	Computer Programming – 1 / Bilgisayar Programlama -1	4	0	4	7	Z / C	
INE113	Chemistry / Kimya	3	0	3	4	Z / C	
AYD101	Academic Writing / Akademik Yazım	2	0	2	2	Z / C	
YBD101	Foreign Language – 1 / Yabancı Dil - 1	2	0	2	2	Z / C	
TDL101	Turkish Language – 1 / Türk Dili - 1	2	0	2	2	Z / C	Uzaktan Eğitim/ Distance Education
AKT101	Academic Turkish / Akademik Türkçe	2	0	2	2	S / E	Sadece yabancı uyruklu öğrenciler için seçmeli ders / Elective course only for foreign students
Toplam / Total				25	32		

2. YARIYIL / SEMESTER 2

KODU CODE	DERSİN ADI COURSE NAME	T T	U A	KREDİ CREDITS	AKTS ECTS	ZORUNLU/ SEÇMELİ COMPULSORY/ ELECTIVE	AÇIKLAMA EXPLANATION
INE102	Calculus – 2 / Matematik -2	4	0	4	6	Z / C	
INE104	Linear Algebra / Lineer Cebir	3	0	3	6	Z / C	
INE106	Introduction to Economics / Ekonomiye Giriş	3	0	3	5	Z / C	
INE108	Computer Programming – 2 / Bilgisayar Programlama – 2	4	0	4	7	Z / C	
YBD102	Foreign Language – 2 / Yabancı Dil - 2	2	0	2	2	Z / C	
KRP102	Career Planning / Kariyer Planlama	1	0	1	2	Z / C	
TDL102	Turkish Language – 2 / Türk Dili – 2	2	0	2	2	Z / C	Uzaktan Eğitim/ Distance Education
Toplam / Total				19	30		

3. YARIYIL / SEMESTER 3

KODU CODE	DERSİN ADI COURSE NAME	T T	U A	KREDİ CREDITS	AKTS ECTS	ZORUNLU/ SEÇMELİ COMPULSORY / ELECTIVE	AÇIKLAMA EXPLANATION
INE201	Probability / Olasılık	3	0	3	5	Z / C	
INE203	Operations Research – 1 / Yöneylem Araştırması - 1	4	0	4	6	Z / C	
INE205	Numerical Analysis / Sayısal Analiz	3	0	3	5	Z / C	
INE207	Systems Analysis / Sistem Analizi	3	0	3	5	Z / C	
AİT101	Pr of Atatürk & Hist of Turk Rev – 1 / Atatürk ilkeleri ve inkılap Tarihi - 1	2	0	2	2	Z / C	Uzaktan Eğitim/ Distance Education
İSGGÜV1	Occupational Health and Safety – 1 / İş Sağlığı ve Güvenliği - 1	2	0	2	2	Z / C	
BTF201	History and Philosophy of Science / Bilim Tarihi ve Felsefesi	2	0	2	2	Z / C	
	Non-Technical Elective – 1 / Teknik Olmayan Seçmeli – 1	2	0	2	6	S / E	
Toplam / Total				21	33		

Müfredat Dışı Seçmeli 1 / Pedagogical Formation Education Elective 1							
PFE3101	Instructional Principles and Methods	3	0	3	4	S / E	
PFE3102	Introduction to Education	3	0	3	4	S / E	
Toplam / Total				6	8		

3. YARIYIL TEKNİK OLMAYAN SEÇMELİ DERSLER / SEMESTER 3 NON-TECHNICAL ELECTIVE COURSES

KODU / CODE	DERSİN ADI / COURSE NAME	T T	U A	KREDİ CREDITS	AKTS ECTS	ZORUNLU/ SEÇMELİ COMPULSORY / ELECTIVE	AÇIKLAMA EXPLANATION
INE221	Basics of Scientific Research	2	0	2	6	S / E	
INE223	Technical English and Composition	2	0	2	6	S / E	
INE225	English Listening and Speaking	2	0	2	6	S / E	
INE227	Management and Organization	2	0	2	6	S / E	
INE229	Management Information Systems	2	0	2	6	S / E	
INE213	Engineering and Technology Management	2	0	2	6	S / E	
INE215	Safety Engineering	2	0	2	6	S / E	
INE217	Information Technologies	2	0	2	2	S / E	
GNLÇLŞ201	Volunteer Work	1	2	2	2	S / E	
EVL401	Marriage and Family Education	1	0	1	2	S / E	

4. YARIYIL / SEMESTER 4

KODU CODE	DERSİN ADI COURSE NAME	T T	U A	KREDİ CREDITS	AKTS ECTS	ZORUNLU/ SEÇMELİ COMPULSORY / ELECTIVE	AÇIKLAMA EXPLANATION
INE202	Statistics / İstatistik	3	0	3	6	Z / C	
INE204	Work Analysis and Design / İş Etüdü	3	0	3	5	Z / C	
INE206	Operations Research – 2 / Yöneylem Araştırması – 2	4	0	4	6	Z / C	
AİT102	Pr of Atatürk & Hist of Turk Rev – 2 / Atatürk ilkeleri ve inkılap Tarihi - 2	2	0	2	2	Z / C	Uzaktan Eğitim/ Distance Education
İSGGÜV2	Occupational Health and Safety – 2 / İş Sağlığı ve Güvenliği - 2	2	0	2	2	Z / C	
	Non-Technical Elective – 2 / Teknik Olmayan Seçmeli – 2	2	0	2	6	S / E	
Toplam / Total				16	27		

Müfredat Dışı Seçmeli 2 / Pedagogical Formation Education Elective 2							
PFE4101	Educational Psychology	3	0	3	4	S / E	
PFE4102	Instructional Technologies	2	0	2	3	S / E	
Toplam / Total				5	7		

4. YARIYIL TEKNİK OLMAYAN SEÇMELİ DERSLER / SEMESTER 4 NON-TECHNICAL ELECTIVE COURSES

KODU / CODE	DERSİN ADI / COURSE NAME	T T	U A	KREDİ CREDITS	AKTS ECTS	ZORUNLU/ SEÇMELİ COMPULSORY / ELECTIVE	AÇIKLAMA EXPLANATION
INE214	Total Quality Management	2	0	2	6	S / E	
INE216	Entrepreneurship	2	0	2	6	S / E	
INE220	Technology Addiction	2	0	2	2	S / E	
INE222	Entrepreneurial Culture	1	0	1	1	S / E	

5. YARIYIL / SEMESTER 5

KODU CODE	DERSİN ADI COURSE NAME	T T	U A	KREDİ CREDITS	AKTS ECTS	ZORUNLU/ SEÇMELİ COMPULSORY / ELECTIVE	AÇIKLAMA EXPLANATION
INE301	Production Planning / Üretim Planlama	3	0	3	6	Z / C	
INE305	Engineering Economics / Mühendislik Ekonomisi	3	0	3	6	Z / C	
INE307	Systems Simulation / Sistem Benzetimi	4	0	4	6	Z / C	
	Technical Elective – 1 / Teknik Seçmeli – 1	3	0	3	6	S / E	
	Technical Elective – 2 / Teknik Seçmeli – 2	3	0	3	6	S / E	
Toplam / Total				16	30		

Müfredat Dışı Seçmeli 3 / Pedagogical Formation Education Elective 3							
PFE5101	Classroom Management	2	0	2	3	S / E	
PFE7101	Guidance and Special Education	3	0	3	4	S / E	
Toplam / Total				5	7		

5. YARIYIL TEKNİK SEÇMELİ DERSLER / SEMESTER 5 TECHNICAL ELECTIVE COURSES

KODU CODE	DERSİN ADI COURSE NAME	T T	U A	KREDİ CREDITS	AKTS ECTS	ZORUNLU/ SEÇMELİ COMPULSORY / ELECTIVE	AÇIKLAMA EXPLANATION
INE319	Advanced Applications of Information Systems – 1	3	0	3	6	S / E	
INE321	Industrial Applications of Statistics						
INE323	Innovation Management						
INE325	Time Series and Forecasting Techniques						
INE327	Decision Analysis						
INE329	Advances in Operations Management						
INE331	Human Resources Management						

6. YARIYIL / SEMESTER 6

KODU CODE	DERSİN ADI COURSE NAME	T T	U A	KREDİ CREDITS	AKTS ECTS	ZORUNLU/ SEÇMELİ COMPULSORY / ELECTIVE	AÇIKLAMA EXPLANATION
INE302	Facilities Design and Planning / Tesis Tasarımı ve Planlama	3	0	3	5	Z / C	
INE304	Quality Planning and Control / Kalite Planlama ve Kontrol	3	0	3	6	Z / C	
INE308	Human Factors in Engineering / Mühendislikte İnsan Faktörleri	3	0	3	5	Z / C	
ELD302	Critical Thinking / Eleştirel Düşünme	2	0	2	2	Z / C	
	Technical Elective – 3 / Teknik Seçmeli – 3	3	0	3	6	S / E	
	Technical Elective – 4 / Teknik Seçmeli – 4	3	0	3	6	S / E	
Toplam / Total				17	30		

Müfredat Dışı Seçmeli 4 / Pedagogical Formation Education Elective 4							
PFE6101	Measurement and Assessment in Education	3	0	3	4	S / E	
PFE8101	Special Teaching Methods	3	0	3	4	S / E	
PFE8102	Teaching Practice	1	8	5	10	S / E	
Toplam / Total				11	18		

6. YARIYIL TEKNİK SEÇMELİ DERSLER / SEMESTER 6 TECHNICAL ELECTIVE COURSES

KODU CODE	DERSİN ADI COURSE NAME	T T	U A	KREDİ CREDITS	AKTS ECTS	ZORUNLU/ SEÇMELİ COMPULSORY / ELECTIVE	AÇIKLAMA EXPLANATION
INE318	Stochastic Models	3	0	3	6	S / E	
INE320	Network Models						
INE322	Sustainable Supply Chain Management						
INE324	Logistics and Transportation Systems						
INE326	Health Systems Engineering						
INE328	Manufacturing Processes						
INE330	Advanced Applications of Information Systems – 2						
INE332	Machine Learning						
INE334	Special Topics in Operations Research						
INE336	Heuristic Optimization						
INE338	Data Mining						
INE340	Agile Product Development						

7. YARIYIL / SEMESTER 7

KODU CODE	DERSİN ADI COURSE NAME	T T	U A	KREDİ CREDITS	AKTS ECTS	ZORUNLU/ SEÇMELİ COMPULSORY / ELECTIVE	AÇIKLAMA EXPLANATION
INE447	Industrial Engineering Applications / <i>Endüstri Mühendisliği Uygulamaları</i>	0	6	3	12	S / E	
	Technical Elective – 5 / <i>Teknik Seçmeli – 5</i>	3	0	3	6	S / E	
	Technical Elective – 6 / <i>Teknik Seçmeli – 6</i>	3	0	3	6	S / E	
	Technical Elective – 7 / <i>Teknik Seçmeli – 7</i>	3	0	3	6	S / E	
Toplam / Total				12	30		

Cooperative Education Program Elective 1 / Ortak Eğitim Programı Seçmeli 1							
INEOEP101	Cooperative Education 1 / <i>Ortak Eğitim 1</i>	0	40	20	30	S / E	Güz ve Bahar dönemlerinde açılır Not ortalaması en az 2,50 olmalı ve alttan ders bulunmamalı.
Toplam / Total				20	30		

NOT: INEOEP101 Ortak Eğitim 1 dersini seç(e)meyen öğrenciler, aynı AKTS yüküne sahip olan INE447 Industrial Engineering Applications ve Teknik Seçmeli 5, 6 ve 7 derslerini alırlar.

7. YARIYIL TEKNİK SEÇMELİ DERSLER / SEMESTER 7 TECHNICAL ELECTIVE COURSES

KODU CODE	DERSİN ADI COURSE NAME	T T	U A	KREDİ CREDITS	AKTS ECTS	ZORUNLU/ SEÇMELİ COMPULSORY / ELECTIVE	AÇIKLAMA EXPLANATION
INE427	Lean Process Improvement	3	0	3	6	S / E	
INE429	Scheduling						
INE431	Inventory Control						
INE433	Selected Topics in Industrial Engineering						
INE435	Nonlinear Optimization						
INE437	Economic Decisions in Engineering						
INE439	Industry 4.0 and Digital Transformation						
INE441	Risk Analysis						
INE445	Project Management						
INE449	Automation and Production Systems						

8. YARIYIL / SEMESTER 8

KODU CODE	DERSİN ADI COURSE NAME	T T	U A	KREDİ CREDITS	AKTS ECTS	ZORUNLU/ SEÇMELİ COMPULSORY / ELECTIVE	AÇIKLAMA EXPLANATION
Workplace Training Program Elective / İşyeri Eğitimi Programı Seçmeli							
INE430	Workplace Training / İşyeri Eğitimi	0	40	20	30	S / E	Güz ve Bahar dönemlerinde açılır
INE432	University Laboratory Training / Üniversite Laboratuvar Eğitimi	0	4	2	30		
Toplam / Total					30		

Cooperative Education Program Elective 2 / Ortak Eğitim Programı Seçmeli 2							
INEOEP201	Cooperative Education 2 / Ortak Eğitim 2	0	40	20	30	S / E	Güz ve Bahar dönemlerinde açılır. Not ortalaması en az 2,50 olmalı ve alttan ders bulunmamalı.
Toplam / Total					30		

NOT: INEOEP102 Ortak Eğitim 2 dersini seç(e)meyen öğrencilerden, alttan devam zorunluluğu olan dersi bulunmayanlar INE430 İşyeri Eğitimi dersini alabilirler.

INE430 İşyeri Eğitimi dersini alamayan öğrenciler INE432 University Laboratory Training dersini alır.