

**T.C. NECMETTİN ERBAKAN ÜNİVERSİTESİ MÜHENDİSLİK FAKÜLTESİ,
ENDÜSTRİ MÜHENDİSLİĞİ BÖLÜMÜ, 2023-2024 AKADEMİK YILI ÖĞRETİM PLANI /
T.C. NECMETTİN ERBAKAN UNIVERSITY ENGINEERING FACULTY,
INDUSTRIAL ENGINEERING DEPARTMENT, 2023-2024 ACADEMIC YEAR CURRICULUM PLAN**

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
	Total:			23	30		

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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
	Total:			19	30		

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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 / <i>Olasılık</i>	4	0	4	5	Z / C	
INE203	Operations Research – 1 / <i>Yöneylem Araştırması - 1</i>	4	0	4	6	Z / C	
INE205	Numerical Analysis / <i>Sayısal Analiz</i>	3	0	3	5	Z / C	
INE207	Systems Analysis / <i>Sistem Analizi</i>	3	0	3	5	Z / C	
AİT101	Pr of Atatürk & Hist of Turk Rev – 1 / <i>Atatürk ilkeleri ve inkılap Tarihi - 1</i>	2	0	2	2	Z / C	Uzaktan Eğitim/ Distance Education
İSGGÜV1	Occupational Health and Safety – 1 / <i>İş Sağlığı ve Güvenliği - 1</i>	2	0	2	2	Z / C	
BTF201	History and Philosophy of Science / <i>Bilim Tarihi ve Felsefesi</i>	2	0	2	2	Z / C	
	Non-Technical Elective – 1 / <i>Teknik Olmayan Seçmeli - 1</i>	2	0	2	6	S / E	
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	
Total:				27	40		

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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	4	0	4	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	
	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	
	Total:			21	35		

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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	
	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	
	Total:			21	34		

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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 / <i>Tesis Tasarımı ve Planlama</i>	3	0	3	5	Z / C	
INE304	Quality Planning and Control / <i>Kalite Planlama ve Kontrol</i>	3	0	3	6	Z / C	
INE308	Human Factors in Engineering / <i>Mühendislikte İnsan Faktörleri</i>	3	0	3	5	Z / C	
ELD302	Critical Thinking / <i>Eleştirel Düşünme</i>	2	0	2	2	Z / C	
	Technical Elective – 3 / <i>Teknik Seçmeli – 3</i>	3	0	3	6	S / E	
	Technical Elective – 4 / <i>Teknik Seçmeli – 4</i>	3	0	3	6	S / E	
	Total:			18	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	
	Total:			29	48		

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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 / Endüstri Mühendisliği Uygulamaları	0	2	1	14	S / E	
	Technical Elective – 5 / Teknik Seçmeli – 5	3	0	3	6	S / E	
	Technical Elective – 6 / Teknik Seçmeli – 6	3	0	3	6	S / E	
	Technical Elective – 7 / Teknik Seçmeli – 7	3	0	3	6	S / E	
	Total:			10	32		
Cooperative Education Program Elective 1 / Ortak Eğitim Programı Seçmeli 1							
INEOEP101	Cooperative Education 1 / Ortak Eğitim 1	0	0	0	32		Güz ve Bahar dönemlerinde açılır

NOT:

INEOEP101 Ortak Eğitim 1 dersini alayamayan öğrenciler, aynı AKTS yüküne sahip olan INE447 Industrial Engineering Applications ve Teknik Seçmeli 5, 6 ve 7 derslerini alırlar.

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8. YARIYIL / SEMESTER 8

KODU / CODE	DERSİN ADI / COURSE NAME	T / T	U / A	KREDİ / CREDITS	AKTS / ECTS	ZORUNLU/ SEÇMELİ COMPULSORY / ELECTIVE	AÇIKLAMA/ EXPLANATION
INE430	Workplace Training / İşyeri Eğitimi	0	0	0	32	S / E	Güz ve Bahar dönemlerinde açılır
INE432	University Laboratory Training	0	2	1	32	S / E	
	Total:			1	32		
Cooperative Education Program Elective 2 / Ortak Eğitim Programı Seçmeli 2							
INEOEP201	Cooperative Education 2 / Ortak Eğitim 2	0	0	0	32	S / E	Güz ve Bahar dönemlerinde açılır

NOT:

INEOEP102 Ortak Eğitim 2 dersini alayamayan öğrencilerden devam zorunluluğu olan dersi bulunmayanlar INE430 İşyeri Eğitimi dersini alabilirler.

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

2023-2024 AKADEMİK YILI ÖĞRETİM PLANI DEĞİŞİKLİKLERİ

1) Müfredata Eklenen Seçmeli Dersler :

KODU / CODE	COURSE NAME / DERSİN ADI	T / T	U / A	KREDİ / CREDITS	AKTS / ECTS	ZORUNLU / SEÇMELİ COMPULSORY / ELECTIVE
INEOEP101	Cooperative Education 1 / Ortak Eğitim 1	3	0	10	32	S / E
INEOEP201	Cooperative Education 2 / Ortak Eğitim 2	0	0	0	32	S / E
	Technical Elective – 7 / Teknik Seçmeli – 7	3	0	3	6	S / E
AKT101	Academic Turkish / Akademik Türkçe	2	0	2	2	S / E

2) Zorunlu Ders statüsünden Seçmeli Ders Statüsüne Alınan ve/veya Kredisi Değiştirilen Dersler:

ESKİ KODU	YENİ KODU	ESKİ İSMİ / OLD TITLE	YENİ İSMİ / NEW TITLE	T / T	U / A	KREDİ/ CREDITS	AKTS/ ECTS
INE401	INE447	Industrial Engineering Applications / Endüstri Mühendisliği Uygulamaları	Industrial Engineering Applications / Endüstri Mühendisliği Uygulamaları	0	2	1	14
INE403	INE449	Production Systems / Üretim Sistemleri	Production Systems / Technical Elective	3	0	3	6
INE316	INE222	Entrepreneurial Culture / Girişimcilik Kültürü	Entrepreneurial Culture / Non-Technical Elective - 2	1	0	1	1

3) Müfredattan Kaldırılan Dersler :

KOD / CODE	COURSE NAME / DERSİN ADI	T / T	U / A	KREDİ / CREDITS	AKTS / ECTS
INE409	Summer Training / Staj	0	2	1	8

4) Kredisi ve/veya Kodu Değiştirilen Dersler:

ESKİ KOD / OLD CODE	YENİ KOD / NEW CODE	COURSE NAME / DERSİN ADI	T / T	U / A	KREDİ / CREDITS	AKTS / ECTS
	INE105	Introduction to Industrial Engineering / Endüstri Mühendisliğine Giriş	2	0	2	2
	INE102	Calculus – 2 / Matematik -2	4	0	4	6
İSGGÜV101	İSGGÜV1	Occupational Health and Safety – 1 / İş Sağlığı ve Güvenliği - 1	2	0	2	2
	INE202	Statistics / İstatistik	4	0	4	6
	INE206	Operations Research – 2 / Yöneylem Araştırması – 2	4	0	4	6
İSGGÜV102	İSGGÜV2	Occupational Health and Safety – 2 / İş Sağlığı ve Güvenliği - 2	2	0	2	2
	INE301	Production Planning / Üretim Planlama	3	0	3	6
	INE305	Engineering Economics / Mühendislik Ekonomisi	3	0	3	6
	INE304	Quality Planning and Control / Kalite Planlama ve Kontrol	3	0	3	6
	INE430	Workplace Training / İşyeri Eğitimi	0	0	0	32

Teknik Seçmeli Dersler (Technical Electives) :

KODU / CODE	İSMİ / TITLE	T / T	U / A	AKTS/ ECTS
INE319	Dynamic Programming	3	0	6
INE321	Industrial Applications of Statistics	3	0	6
INE323	Introduction to Object Oriented Programming	3	0	6
INE325	Time Series and Forecasting Techniques	3	0	6
INE327	Decision Analysis	3	0	6
INE329	Selected Topics in Industrial Engineering 1	3	0	6
INE331	Human Resources Management	3	0	6
INE318	Stochastic Models	3	0	6
INE320	Network Models	3	0	6
INE322	Supply-Chain Modeling and Analysis	3	0	6
INE324	Logistics and Transportation Systems	3	0	6
INE326	Health Systems Engineering	3	0	6
INE328	Manufacturing Processes	3	0	6
INE330	Selected Topics in Industrial Engineering 2	3	0	6
INE332	Selected Topics in Industrial Engineering 3	3	0	6
INE334	Special Topics in Operations Research	3	0	6
INE336	Heuristic Optimization	3	0	6
INE338	Data Mining	3	0	6
INE340	Innovation Management	3	0	6
INE427	Lean Six Sigma	3	0	6
INE429	Scheduling	3	0	6
INE431	Inventory Control	3	0	6
INE433	Selected Topics in Industrial Engineering 4	3	0	6
INE435	Nonlinear Optimization	3	0	6
INE437	Economic Decisions in Engineering	3	0	6
INE439	Systems Safety	3	0	6
INE441	Risk Analysis	3	0	6
INE445	Product Management and Agile Product Development	3	0	6
INE449	Production Systems	3	0	6

Teknik Olmayan Seçmeli Dersler (Non-Technical Electives) :

KODU / CODE	DERSİN ADI / COURSE NAME	T / T	U / A	AKTS/ ECTS
INE221	Basics of Scientific Research / Non-Technical Elective - 1	2	0	6
INE223	Technical English and Composition / Non-Technical Elective - 1	2	0	6
INE225	English Listening and Speaking / Non-Technical Elective - 1	2	0	6
INE227	Management and Organization / Non-Technical Elective – 1	2	0	6
INE229	Management Information Systems / Non-Technical Elective – 1	2	0	6
INE213	Engineering and Technology Management / Non-Technical Elective - 1	2	0	6
INE215	Safety Engineering / Non-Technical Elective - 1	2	0	6
INE217	Information Technologies / Non-Technical Elective – 1	2	0	2
GNÇLŞ201	Volunteer Work / Non-Technical Elective – 1	1	2	2
INE214	Total Quality Management / Non-Technical Elective - 2	2	0	6
INE216	Entrepreneurship / Non-Technical Elective - 2	2	0	6
INE220	Technology Addiction / Non-Technical Elective - 2	2	0	2
INE222	Entrepreneurial Culture / Non-Technical Elective - 2	1	0	1