

GTÜ Endüstri Mühendisliği 2019-2020 Güz döneminin itibaren ders başlayan öğrencilere uygulanan öğretim planı

27.08.2019/06 sayılı Fakülte Kurulu Kararı; 11.09.2019/09-06 sayılı Senato Kararı

1. Yıl Güz Dönemi						1. Yıl Bahar Dönemi												
Kod	Ders	ECTS	T	U	L	TGÜ	Kod	Ders	ECTS	T	U	L	TGÜ					
MATH 101	Calculus I	7	4	2	0	TB	MATH 102	Calculus II	7	4	2	0	TB					
PHYS 121	Physics I	6	4	0	0	TB	PHYS 122	Physics II	6	4	0	0	TB					
PHYS 151	Physics Laboratory I	1	0	0	2	TB	PHYS 152	Physics Laboratory II	1	0	0	2	TB					
IE 101	Introduction to Industrial Engineering and Career Planning	4	3	0	0	TM	MATH 116	Linear Algebra	5	3	0	0	TB					
ME 104	Computer Aided Drawing	2	2	0	0	TM	IE 104	Materials Science and Production Technologies	3	3	0	0	TM					
INF 211	Algorithms and Programming I	6	3	0	2	TB	INF 212	Algorithms and Programming II	6	3	0	2	TB					
HS 101	Principles of History and The History of Turkish Revolution I	2	2	0	0	SOS	HS 102	Principles of History and The History of Turkish Revolution II	2	2	0	0	SOS					
ENG 401	Occupational Health and Safety I	1	1	0	0	SOS	ENG 402	Occupational Health and Safety II	1	1	0	0	SOS					
Dönem Toplamı						29	19	2	4	25	Dönem Toplamı			31	20	2	4	26

2. Yıl Güz Dönemi						2. Yıl Bahar Dönemi												
Kod	Ders	ECTS	T	U	L	TGÜ	Kod	Ders	ECTS	T	U	L	TGÜ					
MATH 115	Discrete Mathematics	5	3	0	0	TB	MATH 214	Numerical Analysis	5	3	0	0	TM					
IE 201	Probability	5	3	2	0	TM	IE 208	Statistics	5	3	0	0	TM					
IE 201	Introduction to Optimization	6	3	0	2	TM	IE 202	Discrete Optimization	6	3	0	0	TM					
IE 203	Economics I (Micro)	5	3	0	0	TM+MT	IE 204	Economics II (Macro)	5	3	0	0	TM+MT					
IE 205	Introduction to System Analysis	5	2	2	0	TB	IE 206	Database Technologies for Enterprises	5	3	0	1	TM					
ENGL 111	Business English	2	2	0	0	SOS	ENGL 112	Academic English	2	2	0	0	SOS					
TUR 101	Türkçh I	2	2	0	0	SOS	TUR 102	Türkçh II	2	2	0	0	SOS					
Dönem Toplamı						30	18	4	2	24	Dönem Toplamı			30	19	0	1	20

3. Yıl Güz Dönemi						3. Yıl Bahar Dönemi											
Kod	Ders	ECTS	T	U	L	TGÜ	Kod	Ders	ECTS	T	U	L	TGÜ				
IE 301	Introduction to Stochastic Modeling	5	3	0	2	TM	IE 302	Simulation	6	3	0	1	TM				
IE 303	Production Planning and Control	6	3	0	0	TM	IE 304	Production Information Systems	5	3	0	1	TM+MT				
IE 305	Data Analysis and Visualization	5	3	0	0	TM	IE 306	Time and Work Study	5	3	0	0	TM				
ENG 260	Engineering Economics	5	3	0	0	TM	IE 308	Quality Engineering	5	3	0	0	TM+MT				
IE XXX	Department Elective I	5	3	0	0	TM	IE XXX	Department Elective II	6	3	0	0	TM				
IE XXX	Non-Technical Elective I	3	2	0	0	TM	IE XXX	Non-Technical Elective II	3	2	0	0	SOS				
ENG 300	Internship I	1	0	0	0	SOS	Dönem Toplamı						30	17	0	2	19

4. Yıl Güz Dönemi						4. Yıl Bahar Dönemi															
Kod	Ders	ECTS	T	U	L	TGÜ	Kod	Ders	ECTS	T	U	L	TGÜ								
IE 401	Introduction to Data Mining	6	3	0	0	TM	IE XXX	Department Elective V	6	3	0	0	TM								
IE XXX	Department Elective III	6	3	0	0	TM	IE XXX	Department Elective VI	6	3	0	0	TM								
IE XXX	Department Elective IV	6	3	0	0	TM	IE XXX	Technical Elective	4	3	0	0	TM								
IE XXX	Non-Technical Elective III	3	2	0	0	SOS	IE XXX	Non-Technical Elective IV	3	2	0	0	SOS								
IE 401	Free Elective I	2	2	0	0	SOS	IE XXX	Non-Technical Elective V	3	2	0	0	SOS								
IE 401	Engineering Design	6	0	4	0	MT	IE XXX	Free Elective II	2	2	0	0	SOS								
ENG 400	Internship II	1	0	0	1	TM	IE 402	Senior Project	6	0	4	0	MT								
Dönem Toplamı						30	13	4	1	18	Dönem Toplamı						30	15	4	0	19

VEYA														
IE 402	Senior Project	6	0	4	0	MT								
ENG 400	Industrial Internship	24	0	0	0	MT								
Dönem Toplamı						30	0	4	0	0				

200 AKTS Krediyi tamamlayan öğrenciler, 4. Yıl Bahar Döneminin toplamda 24 AKTS'lik seçmeli derslerinin yerine ENG 498 dersini alabilir.

ÖN KOŞULLU DERS	ÖN KOŞUL
MATH 102	Calculus II
INF 214	Algorithms and Programming II
IE 201	Introduction to Optimization
IE 202	Discrete Optimization
MATH 215	Probability
MATH 216	Statistics
IE 301	Introduction to Stochastic Modeling
IE 305	Data Analysis and Visualization
IE 302	Simulation
IE 308	Quality Engineering
IE 304	Production Information Systems
IE 491	Engineering Design
IE 492	Senior Project

Bölüm ön koşulu olan derslerde ön koşul derslerinden en az 20 notu almak gerekmektedir.
5. Yıdan (5. yarıyıldan) itibaren ve mezun olma aşamasına gelmiş öğrencilerde bölüm ön koşulu dersler için ön koşul aranmayacaktır.

Bölüm Seçmeli / Department Elective	ÖN KOŞUL
IE 307	Introduction to Linear Systems
IE 309	Introduction to Graph Theory
IE 310	Forecasting Methods and Applications
IE 311	Combinatorics
IE 312	Cost Accounting
IE 402	Pricing and Revenue Optimization
IE 403	Project Management
IE 404	Industrial Applications of Operations Research
IE 405	Reliability Engineering
IE 406	Risk Management
IE 407	Service Systems
IE 408	Artificial Intelligence in Industrial Engineering
IE 409	Manufacturing Systems
IE 410	Facility Location and Planning
IE 412	Supply Chain and Logistics Management

Teknik Seçmeli / Technical Elective
CSE 415
CSE 453
CSE 455
CSE 456
CSE 458
CSE 461
CSE 462
CSE 470
CSE 485
ME 321
ELEC 431
ELEC 442
MATH 106
MATH 301
MATH 208
MATH 431
MATH 442