



DERS PROGRAMI

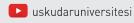
YEAR ONE																
	1st Term								2nd Term							
Code	Course Name	Т	Р	L	С	ECT	S Prerequisite	Code	Course Name	Т	F	,	L	С	ECTS	Prerequisite
MATH101	Calculus I*	3	2	0	4	6		MATH102	Calculus II*	3	- 2	2	0	4	6	
PHYS101	Physics I*	3	0	2	4	6		PHYS102	Physics II*	3	. ()	2	4	6	
CHEM101	General Chemistry I*	3	0	2	4	6		IE110	Introduction to Industrial Engineering	3	(5	0	3	3	
ENG101	English I	3	0	0	3	3		ENG102	English II	3	. ()	0	3	3	
ATA101	Principles of Atatürk and History of Turkish Revolution I	2	0	0	2	3		ATA102	Principles of Atatürk and History of Turkish Revolution II	2	(5	0	2	3	
RPSC109	Positive Psychology and Communication Skills	3	0	0	3	5		COME102	Introduction to Algorithms and Programming*	2	. (j	2	3	4	
RCUL101	University Culture I*	0	2	0	1	1		MATH104	Basic Linear Algebra*	2	2	2	0	3	5	
		Т	П	Т	Т	П		RCUL102	University Culture II*	0	1 2	2	0	1	1	
Total Credits		17	4	4	21	. 30		Total Credits		18	В б	5	4	23	31	
							Y	AR TWO								
3rd Term									4th Term							
Code	Course Name	Т	Р	L	С	ECT	S Prerequisite	Code	Course Name	Т	F	,	L	С	ECTS	Prerequisite
MATH207	Probability*	2	2	0	3	4		MATH204	Statistics	3	()	0	3	5	
MATH203	Differential Equations*	2	2	0	3	5		MATH302	Numerical Analysis	3	()	0	3	6	
IE215	Operations Research I*	3	0	2	4	6		RPRE104	Entrepreneurship and Project Culture	2	. ()	0	2	3	
IE223	Computer Aided Engineering Graphics*	2	0	2	3	4		IE226	Operations Research II*	3	()	2	4	6	
IE217	Manufacturing Systems Analysis	3	0	0	3	4		IE250	Work Systems Analysis and Design	3	. ()	0	3	5	
TURK101	Turkish Language I	2	0	0	2	3		TURK102	Turkish Language II	2	. ()	0	2	3	
IE211	Engineering Economics	3	0	0	3	4		IE284	Summer Practice I**	0	(5	0	0	5	
Total Credits		17	4	4	21	. 30		Total Credits		16	5 ()	2	17	33	
							YE	AR THREE								
	5th Term							6th Term								
Code	Course Name	Т	Р	L	С	EC1	S Prerequisite	Code	Course Name	Т	F	, T	L	С	ECTS	Prerequisite
IE305	System Simulation*	2	0	2	3	5		IE304	Facility Planning and Layout Design	3	. ()	0	3	5	
IE325	Production and Inventory Systems	3	0	0	3	5		IE346	Management Information Systems	2	. ()	0	2	3	
IE351	Ergonomics	3	0	0	3	5		IEXXX	Departmental Elective II	3	()	0	3	5	
IEXXX	Departmental Elective I	3	0	0	3	5		XXXXXX	Field Elective II	3	()	0	3	5	
XXXXXX	Field Elective I	3	0	0	3	5		XXXXXX	Social Elective II	3	. ()	0	3	5	
XXXXXX	Social Elective I	3	0	0	3	5		IE384	Summer Practice II**	0	()	0	0	5	
Total Credits		17	0	2	18	30		Total Credits		14	4 ()	0	14	28	
		YI	EAR FOUR													
	7th Term							8th Term								
	Course Name	Т	Р	_	С	ECT	S Prerequisite		Course Name	Т			L	С	ECTS	Prerequisite
	Graduation Project*	2	0	4	4	5		IE492	Graduation Thesis*	2	. ()	6	5	8	
IE413	Statistical Quality Control	3	0	0	3	5		IE420	Project Management	_	(0	3	5	
	Departmental Elective III	3	0	0	3	5		IE408	Supply Chain Management	3	()	0	3	5	
	Departmental Elective IV	3	0	0	3	5		IEXXX	Departmental Elective V	3	()	0	3	5	
	Field Elective III	3	0		3	5		IEXXX	Departmental Elective VI	3			0	3	5	
	Occupational Health and Safety I	2	0	0	2	2		OHS402	Occupational Health and Safety II	2	. ()	0	2	2	
XXXXX	Social Elective III	3	0	0	3	5				$oxed{\mathbb{L}}$	I	I	\Box			
Total Credits		19	0	4	21	. 32		Total Credits		16	5 ()	6	19	30	

	Total Course Credits for Graduation	154
2023-2024	Total Course ECTS for Graduation	244
2025 2024	Total Elective Courses ECTS	60
	Elective Course Ratio	25%

^{**} These courses are under the Internship Course status.

Elective Course Pool																
Departmental Elective Courses									Social Elective Courses (Foreign Languages)							
Code	Course Name	Т	Р	L	С	ECT	S Pr	rerequisite	Code	Course Name	Т	Р	L	С	ECTS	Prerequisite
IE301	Creativity and Innovation	3	0	0	3	5			ARB123	Arabic I	3	0	0	3	5	
IE303	Leadership and Communication Skills	3	0	0	3	5			ARB124	Arabic II	3	0	0	3	5	ARB123
IE312	Human Resources Management	3	0	0	3	5			CHN123	Chinese I	3	0	0	3	5	
IE315	Decision Making in Health Services	3	0	0	3	5			CHN124	Chinese II	3	0	0	3	5	CHN123
IE317	Organizational Behaviour	3	0	0	3	5			ESP123	Spanish I	3	0	0	3	5	
IE319	Computer Integrated Manufacturing	3	0	0	3	5			ESP124	Spanish II	3	0	0	3	5	ESP123
IE323	Cost Analysis	3	0	0	3	5	Т		FRN123	French I	3	0	0	3	5	
IE324	Engineering Management	3	0	0	3	5	Т		FRN124	French II	3	0	0	3	5	FRN123
IE333	Data Science and Analytics	3	0	0	3	5	Т		GER123	German I	3	0	0	3	5	
IE343	Decision Analysis	3	0	0	3	5	Т		GER124	German II	3	0	0	3	5	GER123
IE344	Start-up Projects in Engineering	3	0	0	3	5	Т		RSN123	Russian I	3	0	0	3	5	
IE352	Probabilistic Models in Operations Research	3	0	0	3	5	\top		RSN124	Russian II	3	0	0	3	5	RSN123
IE402	Portfolio and Risk Analytics	3	0	0	3	5	\top		Field Elective Courses							
IE403	System Dynamics	3	0	0	3	5	Т		For Field Elective courses, any departmental elective course having appropriate credits from other departments of Faculty of Engineering and Natural Sciences can be elected.							
IE405	Enterprise Resource Planning	3	0	0	3	5	Т									
IE410	Decision Support Systems	3	0	0	3	5	Т									
IE411	Introduction to Fuzzy Logic	3	0	0	3	5	Т		Social Elective Courses							
IE415	Lean and Agile Production Systems	3	0	0	3	5	\top		For Social Elective courses, either foreign language course or course having appropriate credits from other faculties can be elected.							
IE416	Design of Experiments	3	0	0	3	5	\top									
IE421	Robotics and Intelligent Systems	3	0	0	3	5	Т									
IE426	Operation Scheduling	3	0	0	3	5	\top									
IE430	Reliability Engineering and Maintenance Management	3	0	0	3	5	\top									
IE431	Optimization	3	0	0	3	5	\top									
IE436	Healthcare Quality Management	3	0	0	3	5										
IE438	Forecasting and Predictive Analysis	3	0	0	3	5	\top									
IE439	Expert Systems and Artificial Intelligence	3	0	0	3	5	\top									
IE443	Special Topics in Industrial Engineering	3	0	0	3	5	\top									







^{*} These courses are under the Applied Course status.