Industrial Engineering 2020 Curriculum

			Hour			
Course Code	Course Name	Туре	T	U	Credit	ECTS
ECON 213	Principles of Economics	Must	4	0	4	
ENG 121	Academic English I	Must	3	0	3	
HIST 201	Principles of Atatürk and History of Turkish Revolution I	Must	2	0	2	
IE 117	Computational Programming Tools in Industrial Engineering	Must	3	0	3	
MATH 157	Calculus for Engineering I	Must	4	0	4	
PHYS 131	Physics I	Must	3	2		
TURK 101	Turkish I	Must	2	0	2	
			21	2	22	3
Total ECTS Credits (Compulsory): 30,00	Total ECTS Credits (Elective): 0	Total ECTS Credits: 30,00				
1. Year 2. Semester Co	ourses		I	1	T	I
Course Code	Course Name	Туре	Hour T	U	Credit	ECTS
ENG 122	Academic English II	Must	3	0	3	
HIST 202	Principles of Atatürk and History of Turkish Revolution II	Must	2	0	2	
	Industrial Engineering Orientation	Must	2	0	2	
IE 101		Must Must	2	0		
IE 101 MATH 158 ME 113	Industrial Engineering Orientation				4	
IE 101 MATH 158	Industrial Engineering Orientation Calculus for Engineering II Computer Aided Engineering	Must	4	0	4	
IE 101 MATH 158 ME 113	Industrial Engineering Orientation Calculus for Engineering II Computer Aided Engineering Drawing I	Must Must	4	0	4 3 4	
E 101 MATH 158 ME 113 PHYS 132	Industrial Engineering Orientation Calculus for Engineering II Computer Aided Engineering Drawing I Physics II	Must Must Must	4 2 3	0 2 2 0	4 3 4 2	

2. Year 1. Semester (Courses					
Course Code	Course Name	Turne	Hour		Credit	ECTS
Course Code	Course Marile	Туре	Т	U	Creuit	ECIS
IE 227	Introduction to Probability	Must	3	2	4	6
IE 241	Cost Analysis in Engineering	Must	3	0	3	5
MATH 205	Basic Linear Algebra	Must	3	0	3	4
ME 210	Manufacturing Processes	Must	3	2	4	5
ME 215	Fundamentals of Thermal Systems	Must	3	0	3	4
MSE 225	Introduction to Materials Science	Must	3	2	4	6
			18	6	21	30
Total ECTS Credits	Total ECTS Credits (Elective): 0	Total ECTS				
(Compulsory): 30,00	Total ECTS Cledits (Elective): 0	Credits: 30,00				

Industrial Engineering 2024 Curriculum

Course Code	Course Name	Туре	Hour T	U	Credit	ECTS
ECON 213	Principles of Economics	Must	1 4	0	4	
ENG 121	Academic English I	Must	3	0	3	
HIST 201	Principles of Atatürk and History of Turkish Revolution I	Must	2	0	2	
IE 117	Computational Programming Tools in Industrial Engineering	Must	3	0	3	
MATH 157	Calculus for Engineering I	Must	4	0	4	
PHYS 131	Physics I	Must	3	2	4	
TURK 101	Turkish I	Must	2	0	2	
			21	2	22	3
Total ECTS Credits (Compulsory): 30,00	Total ECTS Credits (Elective): 0	Total ECTS Credits: 30,00				
1. Year 2. Semester Co			Hour	1		1
1. Year 2. Semester Co Course Code	Course Name	Туре	Hour		Credit	ECTS
Course Code	Course Name		Т	U		ECTS
		Type Must Must		•		ECTS
Course Code ENG 122 HIST 202	Course Name Academic English II Principles of Atatürk and History of	Must	T 3	0	3	ECTS
Course Code ENG 122 HIST 202 IE 101	Course Name Academic English II Principles of Atatürk and History of Turkish Revolution II	Must Must	T 3 2	0	3 2 2	ECTS
Course Code ENG 122	Course Name Academic English II Principles of Atatürk and History of Turkish Revolution II Industrial Engineering Orientation	Must Must Must	T 3 2 2	0	3 2 2	ECTS
Course Code ENG 122 HIST 202 IE 101 MATH 158 ME 113	Course Name Academic English II Principles of Atatürk and History of Turkish Revolution II Industrial Engineering Orientation Calculus for Engineering II Computer Aided Engineering	Must Must Must Must	T 3 2 2 4	000000000000000000000000000000000000000	3 2 2 4	ECTS
Course Code ENG 122 HIST 202 IE 101 MATH 158 ME 113 PHYS 132	Course Name Academic English II Principles of Atatürk and History of Turkish Revolution II Industrial Engineering Orientation Calculus for Engineering II Computer Aided Engineering Drawing I	Must Must Must Must Must	T 2 2 4 2	0 0 0 0 2	3 2 2 4 3	
Course Code ENG 122 HIST 202 IE 101 MATH 158	Course Name Academic English II Principles of Atatürk and History of Turkish Revolution II Industrial Engineering Orientation Calculus for Engineering II Computer Aided Engineering Drawing I Physics II	Must Must Must Must Must	T 2 2 2 4 2 3	0 0 0 0 2 2	3 2 2 4 3 4	ECTS

2. Year 1. Semester C	ourses					
Course Code	Course Name	Туре	Hour		Credit	ECTS
Course Coue	Course Marine	туре	Т	U	Credit	LUIS
IE 227	Introduction to Probability	Must	3	2	4	7
IE 241	Cost Analysis in Engineering	Must	3	0	3	5
MATH 205	Basic Linear Algebra	Must	3	0	3	4
ME 210	Manufacturing Processes	Must	3	2	4	5
MATH 254	Introduction to Differential Equations	Must	4	0	4	4
CHEM 103	Chemistry I	Must	3	2	4	5
			19	6	22	30
Total ECTS Credits	Total ECTS Credits (Elective): 0	Total ECTS Credits:				
(Compulsory): 30,00	Total ECTS Credits (Elective). 0	30,00				

2. Year 2. Semester C	Courses					
Course Code	Course Name	Туре	Hour		Credit	ECTS
Course Code	Course Name	туре	Т	U	Creuit	ECIS
ELEC	Social Science Elective (Any course from the Pool)	Elective	3	0	3	4
IE 202	Work Study and Ergonomics	Must	3	2	4	7
IE 218	Computer Applications in Industrial Engineering	Must	4	0	4	7
IE 228	Engineering Statistics	Must	4	0	4	6
IE 232	Operations Research I - Modelling	Must	3	2	4	6
			17	4	19	30
Total ECTS Credits	Total ECTS Credits (Elective): 4,00	Total ECTS				
(Compulsory): 26,00		Credits: 30,00				

3. Year 1. Semester C	ourses					
Course Code	Course Name	Туре	Hour		Credit	ECTS
Course Coue	Course Marine	туре	Т	U	Cieun	LOID
ESR 103	Ethical Principles and Social Responsibility	Must	1	0	1	1
IE 333	Operations Research II - Deterministic Problems	Must	3	2	4	6
IE 334	Operations Research III - Stochastic Problems	Must	3	2	4	7
IE 341	Engineering Economic Analysis	Must	3	0	3	5
IE 365	Manufacturing and Service Systems Planning I	Must	4	0	4	6
IE 200	Practical Training I	Must	0	0	0	5
			14	4	16	30
Total ECTS Credits	Total ECTS Credits (Elective): 0	Total ECTS				
(Compulsory): 30,00	Total ECTS Credits (Elective): 0	Credits: 30,00				

3. Year 2. Semester C	ourses					
Course Code	Course Name	Туре	Hour		Credit	ECTS
Course Code	Course Marine	туре	Т	U	Creuit	ECIS
IE 302	Facilities Design and Location	Must	4	0	4	6
IE 326	Quality Engineering	Must	4	0	4	6
IE 327	System Simulation	Must	3	2	4	6
IE 364	Production Information Systems	Must	3	0	3	6
IE 366	Manufacturing and Service Systems Planning II	Must	4	0	4	6
			18	2	19	30
Total ECTS Credits	Total ECTS Credits (Elective): 0	Total ECTS				
(Compulsory): 30,00		Credits: 30,00				

Course Code	Course Name	Turna	Hour		Cradit	ECTS
Course Code	Course Marine	Туре	Т	U	Credit	
ELEC	Social Science Elective (Any course from the Pool)	Elective	3	0	3	
IE 202	Work Study and Ergonomics	Must	3	2	4	
IE 218	Computer Applications in Industrial Engineering	Must	4	0	4	
IE 228	Engineering Statistics	Must	4	0	4	
IE 232	Operations Research I - Modelling	Must	3	2	4	
			17	4	19	3
Total ECTS Credits (Compulsory): 26,00	Total ECTS Credits (Elective): 4,00	Total ECTS Credits: 30,00				

3. Year 1. Semester C	ourses					
Course Code	Course Name	Туре	Hour		Credit	ECTS
	Obdise Name	турс	Т	U	orcuit	LOIO
	Ethical Principles and Social	Must	1	0	1	
ESR 103	Responsibility	IVIUSI	1	0	1	
	Operations Research II -	Must	3	2	1	6
IE 333	Deterministic Problems	IVIUSI	3	2	4	Ċ
	Operations Research III - Stochastic	Must	3	2	1	-
IE 334	Problems	WIUSt	5	2	4	
	Engineering Economic Analysis	Must	3	0	3	F
IE 341	5 5			Ű	Ŭ	
	Manufacturing and Service Systems	Must	4	0	4	F
IE 365	Planning I	Maat		0		
IE 200	Practical Training I	Must	0	0	0	Ę
			14	4	16	30
Total ECTS Credits		Total ECTS Credits:				
(Compulsory): 30,00	Total ECTS Credits (Elective): 0	30,00				

3. Year 2. Semester C	ourses					
Course Code	Course Name	Туре	Hour T	U	Credit	ECTS
ELEC	Management Elective (Any course from MAN 1 ELEC POOL: MAN 404 and MAN 431)	Elective	3	0	3	
ELEC	IE REST. ELEC 1	Elective	4	0	4	
IE 327	System Simulation	Must	3	2	4	
IE 364	Production Information Systems	Must	3	0	3	
ELEC	IE REST. ELEC 2	Elective	4	0	4	
			17	2	18	3
Total ECTS Credits (Compulsory): 12,00	Total ECTS Credits (Elective): 18	Total ECTS Credits: 30,00				

4. Year 1. Semester C	ourses					
Course Code	Course Name	Туре	Hour		Credit	ECTS
			Т	U		
ELEC	IE Elective 1	Elective	3		3	5
ELEC	IE Elective 2	Elective	3	0	3	5
IE 407	Systems' Analysis	Must	1	4	3	7
IE 499	Seminar in IE Practise	Must	2	0	2	3
MAN 433	Fundamentals of Business and Management	Must	3	0	3	4
IE 300	Practical Training II	Must	0	0	0	6
			12	4	14	30
Total ECTS Credits (Compulsory): 20,00	Total ECTS Credits (Elective): 10,00	Total ECTS Credits: 30,00				
4. Year 2. Semester C		-	Hour		0 14	5070
Course Code	Course Name	Туре	Т	U	Credit	ECTS
ELEC	IE Elective 3	Elective	3	0	3	5
ELEC	Social Sciences Elective (Any course with MAN/ECON code from the Pool)	Elective	3	0	3	5
IE 408	Systems' Design and Implementation	Must	1	4	3	8
IE 464	Law for Engineers	Must	3	0	3	4
MAN 431	Human in Organizations	Must	3	0	3	4
IE 446	Project Engineering Management	Must	3	0	3	4
			16	4	18	30
Total ECTS Credits (Compulsory): 20,00	Total ECTS Credits (Elective): 10,00	Total ECTS Credits: 30,00				

			Hour			
Course Code	Course Name	Туре	T	U	Credit	ECTS
ELEC	IE Elective 1	Elective	3	0	3	
ELEC	IE Elective 2	Elective	3	0	3	
IE 407	Systems' Analysis	Must	1	4	3	
IE 499	Seminar in IE Practise	Must	2	0	2	
ELEC	Management Elective (Any course from MAN 2 ELEC POOL: MAN 401 and MAN 433)	Elective	3	0	3	
IE 300	Practical Training II	Must	0	0	0	
			12	4	14	3
Total ECTS Credits (Compulsory): 16,00	Total ECTS Credits (Elective): 14,00	Total ECTS Credits: 30,00				
Course Code	Course Name	Туре	Hour T	U	Credit	ECTS
ELEC	IE Elective 3	Elective	1 3	-	3	
ELEC	Social Science Elective (Any course from the Pool)	Elective	3	0	3	
IE 408	Systems' Design and Implementation	Must	1	4	3	
	Law for Engineers	Must	3	0	3	
IE 464		Elective	3	0	3	
	IE Elective 4	Elective	-			
IE 464 ELEC IE 446	IE Elective 4 Project Engineering Management	Must	3	-	-	
ELEC			3 16	-	-	3