

Curriculum for Students Enrolled between 2022 and 2024 (Industrial Engineering)

CURRICULUM – 2022						
Semester 1						
Code	Course Title	C	P	L	Cr	ECTS
ENG 101	English for Academic Purposes	2	2	0	3	5
LIBE 110	Critical Perspectives on Humanity	3	0	0	3	5
LIBE 120	Foundations and Frontiers of Science	2	0	2	3	5
MATH 101	Calculus of One Variable	3	2	0	4	7
PHYS 101	General Physics I	3	0	2	4	6
TEDU 101	First Year Experience at TEDU	0	0	0	0	1
TUR 101	Turkish I	2	0	0	2	2
Semester Credits		15	4	4	19	31
Semester 2						
Code	Course Title	C	P	L	Cr	ECTS
CHEM 100	General Chemistry	3	0	0	3	5
CMPE 113	Fundamentals of Programming I	2	0	2	3	5
ENG 102	Expository Writing	2	2	0	3	5
MATH 102	Multivariable Calculus	3	2	0	4	7
LIBE 140	Social and Political Studies	3	0	0	3	5
TEDU 102	Service Learning	1	0	0	1	1
TUR 102	Turkish II	2	0	0	2	2
Semester Credits		16	4	2	19	30
Semester 3						
Code	Course Title	C	P	L	Cr	ECTS
CMPE 114	Fundamentals of Programming II	2	0	2	3	6
ECON 110	Principles of Economics	3	0	0	3	5
MATH 203	Linear Algebra and Differential Equations	3	0	0	3	5
MATH 230	Introduction to Probability Theory	3	0	0	3	6
ME 221	Manufacturing Processes	2	0	2	3	8
Semester Credits		13	0	4	15	30
Semester 4						
Code	Course Title	C	P	L	Cr	ECTS
IE 212	Lean Process Design	3	0	0	3	6
IE 222	Engineering Economy & Cost Analysis	3	0	0	3	6
IE 232	Mathematical Modeling & Optimization I	3	0	0	3	6
LIBE 130	Art and Design	3	0	0	3	5
MATH 232	Introduction to Statistics	3	0	0	3	6
Semester Credits		15	0	0	15	29

Semester 5						
Code	Course Title	C	P	L	Cr	ECTS
IE 311	Manufacturing and Service Operations Planning I	3	0	0	3	6
IE 331	Mathematical Modeling & Optimization II	3	0	0	3	6
IE 341	Simulation	2	0	2	3	6
IE 371	Computational Tools for Industrial Eng.	2	2	0	3	5
IE 399	Summer Practice I	1	0	0	1	3
LIBE 150	Critical Perspectives in World Literature	3	0	0	3	5
Semester Credits		14	2	2	16	31
Semester 6						
Code	Course Title	C	P	L	Cr	ECTS
CMPE 232	Database Systems	3	0	0	3	5
IE 312	Manufacturing and Service Operations Planning II	3	0	0	3	6
IE 316	Quality Planning and Control	3	0	0	3	7
IE 332	Mathematical Modeling & Optimization III	3	0	0	3	6
MATH/SCI	Math/Science Elective	3	0	0	3	5
Semester Credits		15	0	0	15	29
Semester 7						
Code	Course Title	C	P	L	Cr	ECTS
ENGR 490	Contemporary Issues in Engineering	2	2	0	3	5
HIST 101	History of Turkish Republic I	2	0	0	2	2
IE	Departmental Elective	3	0	0	3	5
IE 491	Senior Project I	1	4	0	3	8
IE 499	Summer Practice II	1	0	0	1	5
MATH/SCI	Math/Science Elective	3	0	0	3	5
Semester Credits		12	6	0	15	30
Semester 8						
Code	Course Title	C	P	L	Cr	ECTS
FREE	Free Elective	3	0	0	3	5
HIST 102	History of Turkish Republic II	2	0	0	2	2
IE	Departmental Elective	3	0	0	3	5
IE	Departmental Elective	3	0	0	3	5
IE 492	Senior Project II	1	4	0	3	8
MATH/SCI	Math/Science Elective	3	0	0	3	5
Semester Credits		15	4	0	17	30
Total						
		T	P	L	K	AKTS
Credits		115	22	12	131	240