

Industrial Engineering Undergraduate Curriculum (for students enrolled in TEDU in Fall 2022)						
Semester 1						
Code	Course Title	C	P	L	Cr	ECTS
CMPE 113	Fundamentals of Programming I	1	0	4	3	5
ENG 101	English for Academic Purposes	2	2	0	3	5
LIBE110	Critical Perspectives on Humanity	3	0	0	3	5
PHYS 101	General Physics I	3	0	2	4	6
MATH 101	Calculus of One Variable	3	2	0	4	7
TUR 101/150	Turkish I/Turkish for Foreigners I	2	0	0	2	2
TEDU 101	First Year Experience at TEDU	0	0	0	0	1
	Semester Credits Total	14	4	6	19	31
Semester 2						
Code	Course Title	C	P	L	Cr	ECTS
ENG 102	Expository Writing	2	2	0	3	5
MATH 102	Multivariable Calculus	3	2	0	4	7
TUR 102/160	Turkish II/Turkish for Foreigners II	2	0	0	2	2
CMPE 114	Fundamentals of Programming II	2	0	2	3	6
LIBE 120	Foundations and Frontiers of Science	3	0	0	3	5
LIBE 140	Social and Political Studies	3	0	0	3	5
TEDU102	Service Learning	1	0	0	1	1
	Semester Credits Total	16	4	2	19	31
Semester 3						
Code	Course Title	C	P	L	Cr	ECTS
MATH 203	Linear Algebra and Differential Equations	3	0	0	3	5
ECON 110	Principles of Economics	3	0	0	3	5
LIBE130	Art and Design	3	0	0	3	5
ME 221	Manufacturing Processes	3	0	2	4	8
MATH 230	Introduction to Probability Theory	3	0	0	3	6
	Semester Credits	15	0	2	16	29
Semester 4						
Code	Course Title	C	P	L	Cr	ECTS
MATH 232	Introduction to Statistics	3	0	0	3	6
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 and Optimization I	3	0	0	3	6
LIBE 150	World Literature	3	0	0	3	5
	Semester Credits	15	0	0	15	29
Semester 5						
Code	Course Title	C	P	L	Cr	ECTS
IE 371	Computational Tools for Industrial Engineers	2	2	0	3	5
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 399	Summer Practice I	1	0	0	1	3
	MATH/SCI Elective	3	0	0	3	5
	Semester Credits	14	2	2	16	31
Semester 6						
Code	Course Title	C	P	L	Cr	ECTS
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
CMPE 232-N	Database Systems	3	0	0	3	5
Math/Sci Elect	MATH/SCI Elective	3	0	0	3	5
	Semester Credits	15	0	0	15	29
Semester 7						
Code	Course Title	C	P	L	Cr	ECTS
IE 499	Summer Practice II	1	0	0	1	5
IE 491	Senior Project I	1	4	0	3	8
IE-DEPT	Departmental Elective	3	0	0	3	5
Math/Sci Elect	MATH/SCI Elective	3	0	0	3	5
FREE	Free Elective	3	0	0	3	5
HIST 101/HIST	History of Turkish Republic I	2	0	0	2	2
	Semester Credits	13	4	0	15	30
Semester 8						
Code	Course Title	C	P	L	Cr	ECTS
IE 492	Senior Project II	1	4	0	3	8
IE-DEPT	Departmental Elective	3	0	0	3	5
IE-DEPT	Departmental Elective	3	0	0	3	5
Math/Sci Elect	MATH/SCI Elective	3	0	0	3	5
FREE	Free Elective	3	0	0	3	5
HIST 102/HIST	History of Turkish Republic II	2	0	0	2	2
	Semester Credits	15	4	0	17	30
	Totals expected for graduation	117	18	12	132	240