Curriculum Applied to Entering Students in 2022 and After (Industrial Engineering)

CURRICULUM						
Semester 1						
Code	Course Title	C	P	L	Cr	ECTS
LIBE 120	Foundations and Frontiers of Science	2	0	2	3	5
ENG 101	English for Academic Purposes	2	2	0	3	5
LIBE 110	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	15	4	4	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 113	Fundamentals of Programming I	2	0	2	3	5
CHEM 101	General Chemistry	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	16	4	2	19	30
Semester 3						
Code	Course Title	C	P	L	Cr	ECTS
MATH 203	Lineer Algebra and Differential Equations	3	0	0	3	5
ECON 110	Principles of Economics	3	0	0	3	5
CMPE 114	Fundamentals of Programming II	2	0	2	3	6
ME 221	Manufacturing Processes	2	0	2	3	8
MATH 230	Introduction to Probability Theory	3	0	0	3	6
	Semester Credits	13	0	4	15	30
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 130	Art and Design	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
LIBE 150	World Literature	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	Database Systems	3	0	0	3	5
Math/Sci Elective	MATH/SCI Elective I	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	Departmental Elective I	3	0	0	3	5
Math/Sci Elective	MATH/SCI Elective II	3	0	0	3	5
ENGR 490	Contemporary Issues in Engineering	2	2	0	3	5
HIST 101/HIST 150	History of Turkish Republic I	2	0	0	2	2
	Semester Credits	12	6	0	15	30
Semester 8						
Code	**Course Title**	**C**	**P**	**L**	**Cr**	**ECTS**
IE 492	Senior Project II	1	4	0	3	8
IE	Departmental Elective II	3	0	0	3	5
IE	Departmental Elective III	3	0	0	3	5
Math/Sci Elective	MATH/SCI Elective III	3	0	0	3	5
FREE	Free Elective I	3	0	0	3	5
HIST 102/HIST 160	History of Turkish Republic II	2	0	0	2	2
	Semester Credits	15	4	0	17	30
	Totals expected for graduation	115	20	12	131	240