

Department of Industrial Engineering (English) Courses

1. Semester

Code	Course	T	A	C	ECTS
ORTL162	Principles of Atatürk and History of Reforms-I	2	0	2	2
MBBL002	Calculus-I	4	2	5	7
IENL160	Introduction to Industrial Eng.	3	0	3	4
MBBL029	Chemistry	2	0	2	3
YDLL323	Academic English-I	4	0	4	4
MBBL018	Physics-I	4	2	5	7
ORTL172	Turkish Language-I	2	0	2	2
ORTL102	Introduction to Higher Education	1	0	1	1
Total		22	4	24	30

2. Semester

Code	Course	T	A	C	ECTS
IENL204	Computer Programming and IE Software	2	0	2	4
ORTL262	Principles of Atatürk and History of Reforms-II	2	0	2	2
MBBL004	Calculus-II	4	2	5	7
IENL102	Computer Aided Engineering	1	2	2	4
YDLL324	Academic English-II	4	0	4	4
MBBL020	Physics-II	4	2	5	7
ORTL272	Turkish Language-II	2	0	2	2
Total		19	6	22	30

3. Semester

Code	Course	T	A	C	ECTS
MBBL016	Differential Equations	2	2	3	6
MBBL201	Probability	2	2	3	6
IENL261	Thermodynamics	2	2	3	4
IENL221	Economics and Accounting	3	0	3	3
IENL201	Product and Process Design	1	2	2	4
ORTL364	Critical Thinking, Creativity and Entrepreneurship	2	0	2	2
IENL263	Materials and Manufacturing Processes	2	2	3	5
Total		14	10	19	30

4. Semester

Code	Course	T	A	C	ECTS
MBBL008	Linear Algebra and its Applications	2	2	3	4
MBBL010	Numerical Analysis and Its Applications	2	2	3	5
MBBL202	Statistics	3	0	3	4
IENL202	Operation Research-I	3	2	4	6

MBBL250	Engineering Mathematics	2	2	3	4
ORTL362	Environmental Protection, Occupational Health and Safety	2	0	2	2
ORTL368	Professional Responsibilities and Ethics	2	0	2	2
CENL181	Computer Programming	1	2	2	3
Total		17	10	22	30
5. Semester					
Code	Course	T	A	C	ECTS
IENL311	Work Analysis and Design	1	2	2	5
IENL303	Operations Research-II	3	2	4	6
IENL361	Production Management	3	0	3	5
IENL315	Forecasting Theory	3	0	5	5
IENL309	Project Management	2	2	3	5
	Technical Elective-I	3	0	3	4
Total		15	6	20	30
6. Semester					
Code	Course	T	A	C	ECTS
IENL364	Engineering Economy & Cost Analysis	3	0	3	4
IENL310	System Analysis and Simulation	2	2	3	5
IENL362	Plant Layout and Facility Planning	3	0	3	4
IENL306	Human Factors and Ergonomics	3	0	3	4
IENL360	Decision Analysis	2	2	3	5
IENL366	Supply Chain Management	3	0	3	4
	Technical Elective-II	3	0	3	4
Total		19	4	21	30
7. Semester					
Code	Course	T	A	C	ECTS
IENL401	Graduation Project Design	0	4	2	7
IENL463	Production Planning & Control	2	2	3	5
MMFL400	Interdisciplinary Project	2	0	2	4
ORTL372	Strategic Planning, Project and Risk Management	2	0	2	2
	Technical Elective-III	3	0	3	4
	Technical Elective-IV	3	0	3	4
	Technical Elective-V	3	0	3	4
Total		15	6	18	30
8. Semester					
Code	Course	T	A	C	ECTS
IENL462	Graduation Project	0	4	2	15

IENL400	Professional Training	0	8	4	10
	21st Century Skills	1	0	1	1
BUSL264	Labour Law and Social Security	3	0	3	4
Total		4	12	10	30

TECHNICAL ELECTIVE COURSES					
Kodu	Ders Adı	T	U	K	AKTS
IENL313	Risk Analysis	3	0	3	4
IENL317	Feasibility Study & Entrepreneurship	3	0	3	4
IENL327	Technology Management and Innovation	3	0	3	4
IENL329	Productivity Management	3	0	3	4
IENL411	Stochastic Models	3	0	3	4
IENL413	Inventory Systems	3	0	3	4
IENL409	Strategic Management & Entrepreneurship	3	0	3	4
IENL461	Statistical Quality Control	2	2	3	4
IENL320	Industrial Clusters and Networks	3	0	3	4
IENL322	Management Information Systems	3	0	3	4
IENL324	Maintenance Management and Engineering	3	0	3	4
IENL314	Game Theory	3	0	3	4
IENL326	Financial Management	3	0	3	4
IENL312	Total Quality Management	3	0	3	4
IENL318	Advanced Statistics Using R	3	0	3	4
IENL330	System Dynamics	3	0	3	4
EENL322	Electric Circuits Measurements and Laboratory	3	0	3	4

21st CENTURY SKILLS COURSES					
Kodu	Ders Adı	T	U	K	AKTS
ORTL462	Project Management	1	0	1	1
ORTL464	Data Literacy	1	0	1	1
ORTL466	Digital Literacy	1	0	1	1
ORTL468	Leadership and Teamwork	1	0	1	1
ORTL469	CS50X Kodluyoruz	1	0	1	1