

DEPARTMENT OF INDUSTRIAL AND SYSTEMS ENGINEERING

First Semester

Code		Courses	T	U	L	Y Credit	ECTS
AFE	131	Academic English I	2	2	0	3	4
MATH	131	Calculus I	3	2	0	4	6
PHYS	101	Physics I	3	0	2	4	6
CHEM	101	General Chemistry	3	1	1	4	6
HUM	103	Humanities	2	0	0	2	3
ES	161	Engineering Drawing	1	0	2	2	5
Total			14	5	5	19	30

Second Semester

Code		Courses	T	U	L	Y Credit	ECTS
AFE	132	Academic English II	2	2	0	3	4
MATH	132	Calculus II	3	2	0	4	6
PHYS	102	Physics II	3	0	2	4	6
FE	XX1	Free Elective I	3	0	0	3	5
ISE	102	Introduction to Industrial and Systems Engineering	3	0	0	3	9
Total			14	4	2	17	30

Third Semester

Code		Courses	T	U	L	Y Credit	ECTS
ES	112	Algorithms & Computer Programming	3	0	2	4	6
MATH	241	Differential Equations	3	2	0	4	6
MATH	221	Linear Algebra	3	1	0	4	6
MATH	281	Probability	2	2	0	3	5
ECON	294	Economics for Engineers	3	0	0	3	4
TKL	201	Turkish Language I	2	0	0	2	2
Total			16	5	2	20	29

Fourth Semester

Code		Courses	T	U	L	Y Credit	ECTS
ISE	232	Computational Methods for Industrial and Systems Engineers	3	0	2	4	8
ES	222	Fundamentals of EEE	3	0	0	3	4
ISE	222	Operations Research I	3	0	2	4	9
ISE	254	Statistical Applications in Industrial and Systems Engineering	3	2	0	4	8
TKL	202	Turkish Language II	2	0	0	2	2
Total			14	2	4	17	31

Fifth Semester							
Code		Courses	T	U	L	Y Credit	ECTS
ISE	331	Finance for Engineers	2	2	0	3	5
ISE	323	Operations Research II	3	2	0	4	7
ISE	XX1	Restricted Elective I	3	0	0	3	5
ISE	311	Information Technologies	3	0	2	4	6
ISE	361	Production Systems Design	2	0	2	3	5
HTR	301	History of Turkish Revolution I	2	0	0	2	2
Total			15	4	4	19	30
Sixth Semester							
Code		Courses	T	U	L	Y Credit	ECTS
ISE	302	Systems Engineering Methods	2	0	2	3	6
ISE	344	Simulation	2	0	2	3	5
ISE	XX2	Restricted Elective II	3	0	0	3	5
ISE	352	Linear Systems & Control	2	2	0	3	5
ISE	362	Supply Chain Management	3	0	2	4	7
HTR	302	History of Turkish Revolution II	2	0	0	2	2
Total			14	2	6	18	30
Seventh Semester							
Code		Courses	T	U	L	Y Credit	ECTS
ISE	401	System Dynamics and Modeling	3	0	2	4	7
ISE	XX3	Restricted Elective III	3	0	0	3	5
ISE	XX4	Restricted Elective IV	3	0	0	3	5
ISE	451	Statistical Quality Control	2	2	0	3	7
ISE	400	Summer Practice	0	2	0	0	1
FE	XX2	Free Elective II	3	0	0	3	5
Total			14	4	2	16	30
Eighth Semester							
Code		Courses	T	U	L	Y Credit	ECTS
ISE	402	System Design	2	2	0	3	6
ISE	432	Decision Analysis	2	1	1	3	6
ISE	XX5	Restricted Elective V	3	0	0	3	5
ISE	492	Engineering Project (Senior Standing)	1	0	4	3	8
ISE	XX6	Restricted Elective V I	3	0	0	3	5
Total			11	3	5	15	30
General Total						141	240