

INDUSTRIAL ENGINEERING UNDERGRADUATE CURRICULUM (Starting from 2012-2013)
(Last update: 16.09.2014)

First Semester			ECTS			
ACS 205	Academic Communication Skills III	0	4	2	4	
HIST 201	Principles of Atatürk and History of Turkish Revolution I	2	0	2	3	
IE 101	Industrial Engineering Orientation	2	0	2	3	
MCS 155	Calculus for Engineering I	3	2	4	5	
ME 115	Fundamentals of Computer Aided Engineering Drawing	2	2	3	6	
PHYS 131	Physics I	3	2	4	6	
TURK 101	Turkish I	2	0	2	3	
		14	10	19	30	

Second Semester			ECTS			
ACS 206	Academic Communication Skills IV	0	4	2	4	
ECON 213	Principles of Economics	4	0	4	4	
HIST 202	Principles of Atatürk and History of Turkish Revolution II	2	0	2	3	
MCS 156	Calculus for Engineering II	3	2	4	5	
MSE 125	Materials Science and General Chemistry	3	2	4	5	
PHYS 132	Physics II	3	2	4	6	
TURK 102	Turkish II	2	0	2	3	
		17	10	22	30	

Third Semester			ECTS			
CENG 198	Introduction to Computer Programming	2	2	3	5	
IE 227	Introduction to Probability	3	2	4	5	
MCS 205	Basic Linear Algebra	3	0	3	4	
ME 213	Introduction to Engineering Thermodynamics	3	0	3	5	
RPW 305	Research Paper Writing	0	2	1	3	
ELECTIVE 1	Restricted Manufacturing Processes Elective (ME 243, ME 210)	2	2	3	5	
ELECTIVE 2	Free Elective	3	0	3	3	
		16	8	20	30	

Fourth Semester			ECTS			
APS 308	Academic Presentation Skills	0	2	1	3	
IE 202	Work Study and Ergonomics	3	2	4	5	
IE 228	Engineering Statistics	2	2	3	6	
IE 232	Operations Research I - Modeling	3	2	4	6	
IE 240	Cost Analysis in Engineering	2	2	3	6	
IE 311	Computer Applications in IE	2	2	3	4	
		12	12	18	30	

Fifth Semester			ECTS			
ESR 101	Ethics and Social Responsibility	1	0	1	1	
IE 200	Summer Training I	0	0	0	5	
IE 327	System Simulation	3	2	4	7	
IE 333	Operations Research II - Deterministic Problems	3	2	4	6	
IE 341	Engineering Economic Analysis	2	2	3	5	
IE 365	Manufacturing and Service Systems Planning I	3	2	4	6	
		12	8	16	30	

Sixth Semester			ECTS			
IE 302	Facilities Design and Location	2	2	3	6	
IE 334	Operations Research III - Stochastic Problems	3	2	4	6	
IE 364	Production Information Systems	2	2	3	5	
IE 366	Manufacturing and Service Systems Planning II	3	2	4	6	
RTW 405	Report Writing	0	2	1	3	
ELECTIVE 3	Restricted Non-Departmental Elective	3	0	3	4	
		13	10	18	30	

Seventh Semester			ECTS			
IE 300	Summer Training II	0	0	0	5	
IE 407	Systems' Analysis	1	4	3	6	
IE 427	Quality Engineering	2	2	3	5	
ELECTIVE 4	Restricted Management Elective (MAN 433, MAN 432, MAN 102*)	3	0	3	4	
ELECTIVE 5	IE Elective 1	3	0	3	5	
ELECTIVE 6	IE Elective 2	3	0	3	5	
		12	6	15	30	

Eighth Semester			ECTS			
IE 408	Systems' Design and Implementation	2	4	4	8	
IE 499	Seminars in IE Practice	0	2	1	1	
PCS 406	Professional Communication Skills	0	2	1	3	
PSY 435	Industrial Psychology and Organizational Behavior	3	0	3	4	
ELECTIVE 7	IE Elective 3	3	0	3	5	
ELECTIVE 8	MAN/ECON Elective	3	0	3	5	
ELECTIVE 9	Restricted Law Elective (IE 464, MAN 323, MAN 429)	3	0	3	4	
		14	8	18	30	

TOTAL CREDITS 110 72 146 240

(* Only for those students who had this course in their curriculum when they started the IE program.

INDUSTRIAL ENGINEERING UNDERGRADUATE CURRICULUM (Starting from 2015-2016)
(Last update: 16.02.2016)

First Semester			ECTS			
ENG 121	Academic English I	2	2	3	4	
HIST 201	Principles of Atatürk and History of Turkish Revolution I	2	0	2	3	
IE 101	Industrial Engineering Orientation	2	0	2	3	
MCS 155	Calculus for Engineering I	3	2	4	5	
ME 115	Fundamentals of Computer Aided Engineering Drawing	2	2	3	6	
PHYS 131	Physics I	3	2	4	6	
TURK 101	Turkish I	2	0	2	3	
		16	8	20	30	

Second Semester			ECTS			
CENG 198	Introduction to Computer Programming	2	2	3	5	
ECON 213	Principles of Economics	4	0	4	4	
ENG 122	Academic English II	2	2	3	4	
HIST 202	Principles of Atatürk and History of Turkish Revolution II	2	0	2	3	
MCS 156	Calculus for Engineering II	3	2	4	5	
PHYS 132	Physics II	3	2	4	6	
TURK 102	Turkish II	2	0	2	3	
		18	8	22	30	

Third Semester			ECTS			
IE 227	Introduction to Probability	3	2	4	6	
IE 241	Cost Analysis in Engineering	3	0	3	5	
MCS 205	Basic Linear Algebra	3	0	3	4	
MCS 258	Introduction to Differential Equations	2	2	3	4	
MSE 225	Introduction to Materials Science	3	2	4	6	
ELECTIVE 1	Restricted Manufacturing Processes Elective (ME 243, ME 210)	2	2	3	5	
		16	8	20	30	

Fourth Semester			ECTS			
IE 202	Work Study and Ergonomics	3	2	4	7	
IE 218	Computer Applications in IE	2	2	3	6	
IE 228	Engineering Statistics	3	2	4	7	
IE 232	Operations Research I - Modeling	4	2	5	7	
ELECTIVE 2	Free Elective	3	0	3	3	
		15	8	19	30	

Fifth Semester			ECTS			
ESR 101	Ethics and Social Responsibility	1	0	1	1	
IE 200	Summer Training I	0	0	0	5	
IE 327	System Simulation	3	2	4	7	
IE 333	Operations Research II - Deterministic Problems	3	2	4	6	
IE 341	Engineering Economic Analysis	3	0	3	5	
IE 365	Manufacturing and Service Systems Planning I	3	2	4	6	
		13	6	16	30	

Sixth Semester			ECTS			
IE 302	Facilities Design and Location	3	2	4	6	
IE 334	Operations Research III - Stochastic Problems	4	2	5	7	
IE 364	Production Information Systems	2	2	3	6	
IE 366	Manufacturing and Service Systems Planning II	3	2	4	6	
ELECTIVE 3	Restricted Non-Departmental Elective	3	0	3	5	
		15	8	19	30	

Seventh Semester			ECTS			
IE 300	Summer Training II	0	0	0	5	
IE 407	Systems' Analysis	1	4	3	7	
IE 427	Quality Engineering	3	2	4	6	
IE 499	Seminars in IE Practice	2	0	2	2	
ELECTIVE 4	IE Elective 1	3	0	3	5	
ELECTIVE 5	IE Elective 2	3	0	3	5	
		12	6	15	30	

Eighth Semester			ECTS			
IE 408	Systems' Design and Implementation	1	4	3	7	
MAN 431	Human in Organizations	3	0	3	4	
ELECTIVE 6	IE Elective 3	3	0	3	5	
ELECTIVE 7	Restricted Management Elective (MAN 433, MAN 432, MAN 102*)	3	0	3	5	
ELECTIVE 8	MAN/ECON Elective	3	0	3	5	
ELECTIVE 9	Restricted Law Elective (IE 464, MAN 323, MAN 429)	3	0	3	4	
		16	4	18	30	

TOTAL CREDITS 121 56 149 240

(* Only for those students who had this course in their curriculum when they started the IE program.

Müfredattan çıkarılan ders (Course taken out of curriculum)

Dönemi değişen ders (Course offered in a different semester)

Müfredata yeni eklenen ders (New course)

Kurumsal ve/veya AKTS kredisi, Teorik ve/veya Uygulama saati, Kodu değişen ders (Course whose credit(s), hours and/or code changed)