## Uskudar University Faculty of Engineering and Natural Sciences Industrial Engineering Department (100% English) 2016-2017 Academic Year

								Year One
	1st. Term							
Code	Course Name	т	U	L	К	ECTS	Prerequisite	Code
IE 101	Introduction to Industrial Eng.	2	2	0	3	3		COME102
MATH 101	Calculus-I	3	2	0	4	6		MATH 102
PHYS 101	Physics-I	3	0	2	4	6		PHYS 102
CHEM 101	General Chemistry-I	3	0	2	4	6		ENG 102
ENG 101	English-I	3	0	0	3	3		TURK 102
TURK 101	Turkish Language-I	2	0	0	2	3		COME 210
RPSC 109	Positive Phychology and Communication Skills	3	0	0	3	5		RCUL102
RCUL 101	University Culture	0	2	0	1	1		
Total Credit	s	19	6	4	24	33		Total Cred

	2nd. Term							
Code	Course Name		• [	U	L	К	ECTS	Prerequisite
COME102	Introduction to Algorithms and Programming	:	! [	0	2	3	4	
MATH 102	Calculus-II	:	ī	2	0	4	6	
PHYS 102	Physics-II	:	:	0	2	4	6	
ENG 102	English-II	:	,	0	0	3	3	
TURK 102	Turkish Language-II	:	! [	0	0	2	3	
COME 210	Probability and Statistics	:	ī	0	0	3	5	
RCUL102	University Culture	-	)	2	0	1	1	
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Total Credits		1	6	4	4	20	28	

	3rd. Term						
Code	Course Name	Т	U	L	К	ECTS	Prerequisite
IE 201	Management Accounting	2	0	2	3	4	
IE 215	Operations Research I	3	2	0	4	5	
MAT 201	Linear Algebra and Engineering Applications	2	0	2	3	5	
MAT 203	Differential Equations	2	2	0	3	5	
ENG 211	Professional English- I	3	0	0	3	3	
IE 203	Introduction to Manufacturing Systems	3	2	0	4	5	
ATA 101	Principles of Atatürk and History of Revolutions-I	2	0	0	2	3	
Total Credit	ts	17	6	4	22	30	

	4th. Term						
Code	Course Name	Т	U	L	К	ECTS	Prerequisite
MATH 302	Numerical Analysis	3	0	0	3	5	
IE 202	Thermodynamics	2	2	0	3	4	
IE 226	Operations Research II	3	2	0	4	5	
IE 228	Supply Chain Management	2	2	0	3	4	
ENG 212	Professional English-II	3	0	0	3	3	
IE XXX	Departmental Elective -I	3	0	0	3	5	
ATA 102	Principles of Atatürk and History of Revolutions-II	2	0	0	2	3	
IE 282	Summer Practice -I	0	0	0	0	4	
Total Credits		18	6	0	21	33	

	5th. Term						
Code	Course Name	Т	U	L	К	ECTS	Prerequisite
IE 3XX	Departmental Elective - II	3	0	0	3	5	
IE 303	Facilities Design and Planning	3	0	2	4	5	
IE 305	Economics and Financial Modeling	2	2	0	3	4	
RPRE 104	Entrepreneurship and Project Culture	2	0	0	2	3	
IE XXX	Departmental Elective- III	3	0	0	3	5	
XXXXXX	Field Elective-I	3	0	0	3	5	
Total Credit	s	16	2	2	18	27	

	6th. Term						
Code	Course Name	т	U	L	К	ECTS	Prerequisite
IE 302	System Engineering Methods	3	0	0	3	4	
IE 304	Modeling & System Simulation	3	2	0	4	5	
IE XXX	Departmental Elective-IV	3	0	0	3	5	
XXXXXX	Field Elective-II	3	0	0	3	5	
XXXXXX	Social Elective – I	3	0	0	3	5	
IE382	Summer Practice-II	0	0	0	0	4	
Total Credits		15	2	0	16	28	

	7th. Term						
Code	Course Name	Т	U	L	К	ECTS	Prerequisite
IE 491	Graduation Project	2	4	0	4	5	
IE 403	Introduction to Systems Dynamics	3	0	2	4	5	
IE 405	Statistical Quality Control	2	2	0	3	5	
IE XXX	Departmental Elective – V	3	0	0	3	5	
XXXXX	Field Elective-III	3	0	0	3	5	
xxxxxx	Social Elective-II	3	0	0	3	5	
Total Credi	its	16	6	2	20	30	

	8th. Term						
Code	Course Name	Т	U	L	К	ECTS	Prerequisite
IE 492	Graduation Thesis	2	8	0	6	9	IE 491
IE 402	Ergonomics	2	2	0	3	4	
IE 404	Design in Industrial Engineering	3	0	0	3	5	
IE XXX	Departmental Elective-VI	3	0	0	3	5	
IE 406	Production Planning and Inventory Control	2	2	0	3	5	
XXXXXX	Elective (2nd Foreign Language)	2	0	0	2	3	
Total Credits		14	10	0	20	31	

Total Credits	161
ECTS Credits	240
Elective Courses ECTS Credits	55
Elective Courses Ratio	23%

IE 282	Summer Practice I (Service Sector)
IE 382	Summer Practice II (Manufacturing Sector)

Elective Course -Pool									
Depa	rtmental Electives	2nd. Foreign Language Elective Course							
IE 214 Reliability Engineering and System Safety	IE 337 Principles of Programmable Automation	XXX Spanish							
E 216 Project Management for Engineers	IE 350 Large Assembly Manufacturing Systems	XXX Arabic							
IE 309 Analytical Methods in Transportation	IE 401 Elements of Dynamic Enterprise Modeling	XXX Chinese							
E 310 Linear and Network Programming	IE 408 Reliability in Product Design and Testing	XXX Russian							
E 311 Systems and Control	IE 410 Nonlinear Dynamical Systems								
E 312 Human Resources Management	IE 412 Game Theory	For Technical Elective course, any course having appropriate credits							
E 314 Forecasting Methods	IE 414 Technology-Based Entrepreneurship	from other departments of Faculty of Engineering and Natural Sciences can be elected.							
E 316 Decision Making in Health Services	IE 417 Design in the Manufacturing Firm	cui de circued.							
E 317 Industrial Organizations	IE 420 Renewable Energy Systems								
E 318 Applied Occupational Health and Safety	IE 421 Robotics	For Social Elective course, any course having appropriate credits from other faculties can be							
E 319 Computer Integrated Manufacturing (CIM)	IE 425 Innovation Management	elected.							
IE 332 Work Study	IE 443 Special Topics in Industrial Engineering								

Year Four