

 İSTANBUL OKAN UNIVERSITY		FACULTY OF ENGINEERING AND NATURAL SCIENCES DEPARTMENT OF INDUSTRIAL ENGINEERING INDUSTRIAL ENGINEERING PROGRAMME (IN ENGLISH) 2026-2027 FALL SEMESTER UNDERGRADUATE CURRICULUM						Document Code: FR.OGR.200 Revision Number: 02 Publish Date: 25.06.1999 Revision Date: 25.07.2023 Page Number: 1	
Semester 1									
Code	Course Title	T	A	C	ECTS	Status	Prerequisite		
MATH113	Mathematics I	3	2	4	6	Compulsory			
IE103	Introduction to Industrial Engineering	2	0	2	3	Compulsory			
PHYS113	Physics I	2	2	3	5	Compulsory			
ATA111	History of Turkish Revolution I	2	0	2	2	Compulsory			
TRD111	Turkish I	2	0	2	2	Compulsory			
CHM103	Chemistry	2	2	3	5	Compulsory			
CLP001	Career and Life Planning	0	2	1	3				
	Foreign Language Elective	2	2	3	4	Elective			
Total Credit		20		30					
Semester 3									
Code	Course Title	T	A	C	ECTS	Status	Prerequisite		
MATH265	Probability and Statistics I	3	0	3	5	Compulsory	MATH113		
ACCA253	Financial and Cost Accounting	3	0	3	7	Compulsory			
MATH215	Mathematics III	2	2	3	6	Compulsory	MATH113		
BBA222	Entrepreneurship Applications	2	0	2	3	Compulsory			
	University Elective / Foreign Language Elective	3	0	3	4	Elective			
	Departmental Elective	3	0	3	5	Elective			
Total Credit		17		30					
Semester 5									
Code	Course Title	T	A	C	ECTS	Status	Prerequisite		
IE321	Operations Research I	3	0	3	7	Compulsory			
IE315	Quality Engineering	3	0	3	6	Compulsory			
IE305	Production Planning I	3	0	3	6	Compulsory			
IE311	Work Analysis and Design	3	0	3	6	Compulsory			
IE367	Occupational Health and Safety	3	0	3	5	Compulsory			
MATH220	Numerical Methods	2	2	3	4	Compulsory	MATH113		
Total Credit		18		34					
Semester 7									
Code	Course Title	T	A	C	ECTS	Status	Prerequisite		
IE497	Industrial Engineering Design	0	2	1	4	Compulsory			
IE419	Facility Planning	3	0	3	6	Compulsory			
IE439	Computer Integrated Manufacturing	2	0	2	4	Compulsory			
	Departmental Elective	3	0	3	5	Elective			
	Departmental Elective	3	0	3	5	Elective			
IE413	Project Management	3	0	3	5	Compulsory			
Total Credit		15		29					
Semester 2									
Code	Course Title	T	A	C	ECTS	Status	Prerequisite		
MATH114	Mathematics II	3	2	4	6	Compulsory	MATH113		
CMPE152	Computer Programming	2	2	3	5	Compulsory			
PHYS114	Physics II	2	2	3	5	Compulsory	PHYS113		
ATA112	History of Turkish Revolution II	2	0	2	2	Compulsory			
TRD112	Turkish II	2	0	2	2	Compulsory			
ECO102	Macroeconomics	3	0	3	7	Compulsory			
	Foreign Language Elective	2	2	3	4	Elective			
Total Credit		20		31					
Semester 4									
Code	Course Title	T	A	C	ECTS	Status	Prerequisite		
MATH266	Probability and Statistics II	3	0	3	5	Compulsory	MATH265		
IE230	Materials and Processes in Manufacturing	2	0	2	4	Compulsory			
MATH216	Mathematics IV	2	2	3	6	Compulsory	MATH114		
ME201	Computer Aided Technical Drawing	2	2	3	5	Compulsory			
	University Elective / Foreign Language Elective	3	0	3	4	Elective			
IE228	Ergonomics	3	0	3	5	Compulsory			
Total Credit		17		29					
Semester 6									
Code	Course Title	T	A	C	ECTS	Status	Prerequisite		
IE322	Operations Research II	3	0	3	7	Compulsory			
IE318	Engineering Economy	3	0	3	6	Compulsory			
IE306	Production Planning II	3	0	3	6	Compulsory			
IE308	Simulation	3	0	3	6	Compulsory			
	Departmental Elective	3	0	3	5	Elective			
Total Credit		15		30					
Semester 8									
Code	Course Title	T	A	C	ECTS	Status	Prerequisite		
IE498	Industrial Engineering Graduation Project	0	4	2	4	Compulsory			
	Departmental Elective	3	0	3	5	Elective			
	Departmental Elective	3	0	3	5	Elective			
	Faculty Elective	3	0	3	5	Elective			
INT001	Internship I	0	0	0	4	Compulsory			
INT002	Internship II	0	0	0	4	Compulsory			
Total Credit		11		27					
TOTAL CREDIT				133					
TOTAL ECTS				240					

Abbreviations: T=Weekly hours: theoretical; A=Weekly hours: application; C=Credits in Turkish System; ECTS= European Credit Transfer System

ELECTIVE COURSES

Semester 1

Code	Course Title	T	A	C	ECTS	Status	Prerequisite
SECOND FOREIGN LANGUAGE							
DEPARTMENTAL ELECTIVE							
FACULTY ELECTIVE							
UNIVERSITY ELECTIVE							

Semester 3

Code	Course Title	T	A	C	ECTS	Status	Prerequisite
SECOND FOREIGN LANGUAGE							
DEPARTMENTAL ELECTIVE							
IE267	System Dynamics	3	0	3	5	Elective	
IE269	Scientific Methods in Engineering	3	0	3	5	Elective	
FACULTY ELECTIVE							
UNIVERSITY ELECTIVE							

Semester 5

Code	Course Title	T	A	C	ECTS	Status	Prerequisite
SECOND FOREIGN LANGUAGE							
DEPARTMENTAL ELECTIVE							
FACULTY ELECTIVE							
UNIVERSITY ELECTIVE							

Semester 7

Code	Course Title	T	A	C	ECTS	Status	Prerequisite
SECOND FOREIGN LANGUAGE							
DEPARTMENTAL ELECTIVE							
IE495	Human Resource Management	3	0	3	5	Elective	
IE425	Enterprise Resource Planning	3	0	3	5	Elective	
IE437	Supply Chain Management	3	0	3	5	Elective	
IE426	Productivity Management	3	0	3	6	Elective	
IE433	Special Topics in Industrial Engineering II	3	0	3	5	Elective	
FACULTY ELECTIVE							
ENG301	Management for Engineers	3	0	3	5	Elective	
ENG303	Project Management	3	0	3	5	Elective	
ENG305	Introduction to Information Security	3	0	3	5	Elective	
ENG307	Biotechnology:Combining Engineering with the Biological Science	3	0	3	5	Elective	
ENG316	Introduction to Traffic Engineering	3	0	3	5	Elective	
ENG318	Introduction to Environmental Engineering	3	0	3	5	Elective	
ENG320	Agile Product Development	3	0	3	5	Elective	
ENG351	Digital Filters and Systems	3	0	3	5	Elective	
ENG370	Principles of Machine Learning	3	0	3	5	Elective	
UNIVERSITY ELECTIVE							

Semester 2

Code	Course Title	T	A	C	ECTS	Status	Prerequisite
SECOND FOREIGN LANGUAGE							
DEPARTMENTAL ELECTIVE							
FACULTY ELECTIVE							
UNIVERSITY ELECTIVE							

Semester 4

Code	Course Title	T	A	C	ECTS	Status	Prerequisite
SECOND FOREIGN LANGUAGE							
DEPARTMENTAL ELECTIVE							
FACULTY ELECTIVE							
UNIVERSITY ELECTIVE							

Semester 6

Code	Course Title	T	A	C	ECTS	Status	Prerequisite
SECOND FOREIGN LANGUAGE							
DEPARTMENTAL ELECTIVE							
IE390	Special Topics in Industrial Engineering I	3	0	3	5	Elective	
IE425	Enterprise Resource Planning	3	0	3	5	Elective	
FACULTY ELECTIVE							
UNIVERSITY ELECTIVE							

Semester 8

Code	Course Title	T	A	C	ECTS	Status	Prerequisite
SECOND FOREIGN LANGUAGE							
DEPARTMENTAL ELECTIVE							
IE488	Experimental Design	3	0	3	5	Elective	
IE424	Operational Strategic Planning	3	0	3	5	Elective	
IE426	Productivity Management	3	0	3	6	Elective	
IE425	Enterprise Resource Planning	3	0	3	5	Elective	
IE437	Supply Chain Management	3	0	3	5	Elective	
IE490	Industrial Engineering OCOOP -1	3	0	3	5	Elective	
IE492	Industrial Engineering OCOOP -2	3	0	3	5	Elective	
IE494	Industrial Engineering OCOOP -3	3	0	3	5	Elective	
FACULTY ELECTIVE							
ENG302	Fuzzy Logic and Its Applications	3	0	3	5	Elective	
ENG304	Technology Management	3	0	3	5	Elective	
ENG306	Intorduction to Web Programming	3	0	3	5	Elective	
ENG308	Energy Policy	3	0	3	5	Elective	
ENG316	Introduction to Traffic Engineering	3	0	3	5	Elective	
ENG318	Introduction to Environmental Engineering	3	0	3	5	Elective	
ENG320	Agile Product Development	3	0	3	5	Elective	
ENG310	Sustainable Energy and Environment	3	0	3	5	Elective	
ENG368	Wireless Networks	3	0	3	5	Elective	
ENG370	Principles of Machine Learning	3	0	3	5	Elective	
IE490	Industrial Engineering OCOOP -1	3	0	3	5	Elective	
IE492	Industrial Engineering OCOOP -2	3	0	3	5	Elective	
IE494	Industrial Engineering OCOOP -3	3	0	3	5	Elective	
UNIVERSITY ELECTIVE							