

FACULTY OF ENGINEERING AND NATURAL SCIENCES DEPARTMENT OF INDUSTRIAL ENGINEERING INDUSTRIAL ENGINEERING PROGRAMME (IN ENGLISH)

UNDERGRADUATE CURRICULUM

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											Pa	age Nu	mber: 1	
Semester 1							Semester 2							
Code	Course Title	T A		ECT	S Status	Prerequisite	Code	Course Title				ECTS	Status	Prerequisite
MATH113	Mathematics I	3 2	2 4	6	Compulsory		MATH114	Mathematics II		2		6	Compulsory	MATH113
IE103	Introduction to Industrial Engineering	2 (2	3	Compulsory		CMPE152	Computer Programming		2		5	Compulsory	
PHYS113	Physics I	2 2	2 3	5	Compulsory		PHYS114	Physics II		2		5	Compulsory	PHYS113
ATA111	History of Turkish Revolution I	2 () 2	2	Compulsory		ATA112	History of Turkish Revolution II	2	0	2	2	Compulsory	
TRD111	Turkish I	2 (2	2	Compulsory		TRD112	Turkish II	2	0	2	2	Compulsory	
CHM103	Chemistry	2 2	2 3	5	Compulsory		ECO102	Macroeconomics		0		7	Compulsory	
CLP001	Career and Life Planning	0 2	2 1	3				Foreign Language Elective	2	2	3	4	Elective	
	Foreign Language Elective	2 2	2 3	4	Elective									
	Total	Credi	it 2() 3	80			Tota						
Semester 3							Semester 4							
	Course Title	T A		ECT	S Status	Prerequisite	Code	Course Title				ECTS		Prerequisite
MATH265	Probability and Statistics I	3 (5	Compulsory	MATH13	MATH266	Probability and Statistics II		0		5	Compulsory	MATH265
	Financial and Cost Accounting	3 (7	Compulsory		IE230	Materials and Processes in Manufacturing		0		4	Compulsory	
	Mathematics III	2 2		6	Compulsory	MATH13	MATH216	Mathematics IV		2		6	Compulsory	MATH114
BBA222	Entrepreneurship Applications	2 (3	Compulsory		ME201	Computer Aided Technical Drawing		2		5	Compulsory	
	University Elective / Foreign Language Elective	3 (4	Elective			Elective		0	_	4	Elective	
	Departmental Elective	3 (, ,	5	Elective		IE228	Ergonomics			3	5	Compulsory	
	Total	Credi	it 17	7	50			Total	Cre	dit 1	17	29		
Semester 5							Semester 6							
Code	Course Title	T A		_	S Status	Prerequisite	Code	Course Title				ECTS		Prerequisite
IE321	Operations Research I	3 (_	7	Compulsory		IE322	Operations Research II		0		7	1 ,	IE321
IE315	Quality Engineering	3 (6	Compulsory		IE318	Engineering Economy		0		6	Compulsory	
IE305	Production Planning I	3 (, ,	6	Compulsory		IE306	Production Planning II		0	_	6	Compulsory	IE305
	Work Analysis and Design	3 (, ,	6	Compulsory		IE308	Simulation		0		6	Compulsory	
IE367	Occupational Health and Safety	3 (5	Compulsory			Departmental Elective	3	0	3	5	Elective	
MATH220	Numerical Methods	2 2	_	4	Compulsory	MATH113				Щ				
	Total	Credi	it 18	3	34			Total	Cre	dit 1	15	30		
Semester 7							Semester 8							
Code	Course Title	T A	_	_	S Status	Prerequisite	Code	Course Title				ECTS S		Prerequisite
IE497	Industrial Engineering Design	0 2		4	Compulsory		IE498	Industrial Engineering Graduation Project		4		4	Compulsory	
IE419	Facility Planning	3 (6	Compulsory			Departmental Elective		0		5	Elective	
IE439	Computer Integrated Manufacturing	2 () 2	4	Compulsory			Departmental Elective		0		5	Elective	
	Departmental Elective	3 (5	Elective			Faculty Elective		0		5	Elective	
	Departmental Elective	3 (, ,	5	Elective		INT001	Internship I		0		4	Compulsory	
IE413	Project Management	3 (5	Compulsory		INT002	Internship II		0		4	Compulsory	
1	Total	Credi	it 15	si 3	29		1	Total	Cwa	4:4 1	11	27	· ·	1

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

TOTAL CREDIT

TOTAL ECTS

133



ELECTIVE COURSES

Semester 2

Semeste	r 1							
Code	Course Title		T	A	C	ECTS	Status	Prerequisite
	SECO	ND FOREIGN LANGUA	٩G	E				
	DEP	ARTMENTAL ELECTI	VE					
		ACULTY ELECTIVE						
	U	IVERSITY ELECTIVE	Ľ.					

Code	Course Title		T	Α	C	ECTS	Status	Prerequisite
		SECOND FORE	IGN LA	NG	UA	GE		
		DEPARTMEN	TAL ELI	E C I	ΓIV	E		
		FACULTY	ELECT	IVI	C			
		UNIVERSIT	Y ELEC	TIV	Æ			

Code	Course Title		T	Α	C	ECTS	Status	Prerequisite
	SECOND FORE	EIGN LANGU	AG	E			L	
	DEPARTMEN	TAL ELECT	(VE					
IE267	System Dynamics		3	0	3	5	Elective	
IE269	Scientific Methods in Engineering		3	0	3	5	Elective	
	FACULTY	ELECTIVE						
	UNIVERSIT	TY ELECTIVI	E					

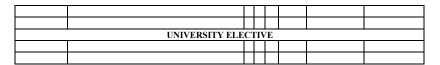
Code	Course Title		T	Α	C	ECTS	Status	Prerequisite
		D FOREIGN L.						
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	DEPA	RTMENTAL E	LE	CI	ΓIV	E		
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	UN	VERSITY ELE	CT	Π	/E			

Semeste	r 5							
Code	Course Title		T	Α	C	ECTS	Status	Prerequisite
	S	ECOND FOREIGN LANGUA	٩G	E				
		DEPARTMENTAL ELECTI	VE]				
		FACULTY ELECTIVE						

Semester	6						
Code	Course Title	T	Α	C	ECTS	Status	Prerequisite
	SECOND FOREIGN	LA	NG	UA(GE		
	DEPARTMENTAL	ELI	E C I	ΓIV	E		
IE390	Special Topics in Industrial Engineering I		0	3	5	Elective	
	FACULTY ELI	ECT	IVI	3			

UNIVERSITY ELECTIVE									

Code	Course Title	T	Α	C	ECTS	Status	Prerequisite
	SECOND FOREIGN LANGU	AG	E				-
	DEPARTMENTAL ELECTI	VE	;				
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 ELECTIVI	E					-



Semester 8

Code	Course Title	T	A	C	ECTS	Status	Prerequisite
	SECOND FOREIGN	LAN	IGI	UA	GE		
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		T					
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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 ELE	CTI	VF	3			
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 EL	EC	ΤIV	/E			