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DE	PARTMEN	T OF Industrial Engineering																
DE	PARTMEN	T / PROGRAM Industrial Engineering/ M.S.	1															
	~ .	I. TERM / FALL								II. TERM / SPRING								
	Code	Course Title	Туре	Т	U	L	Credit	ECTS	Code	Course Title	Туре	Т	U	L	Credit	<u>ECTS</u>		
	END5101	MATHEMATICAL PROGRAMMING	Z	3	0	0	3	7.5	END5110	PRODUCTION SYSTEMS	Z	3	0	0	3	7.5		
									END5112	JOB SEQUENCING AND SCHEDULING	Z	3	0	0	3	7.5		
	END5113	COMPUTER AND MANUFACTURING	S	3	0	0	3	7.5	END5114	ANALYSIS OF INVENTORY SYSTEMS	S	3	0	0	3	7.5		
	END5115	SIMULATION ANALYSIS	S	3	0	0	3	7.5	END5116	FACILITY LOCATION AND LAYOUT	S	3	0	0	3	7.5		
E	END5121	DESIGN AND ANALYSIS OF ALGORITHMS	S	3	0	0	3	7.5	END5132	ENGINEERING ECONOMY	S	3	0	0	3	7.5		
AG	END5123	HEURISTIC ALGORITHMS	S	3	0	0	3	7.5	END5134	TECHNOLOGY MANAGEMENT	S	3	0	0	3	7.5		
SE ST	END5131	TOTAL QUALITY MANAGEMENT	S	3	0	0	3	7.5	END5136	STRATEGIC DECISION SUPPORT SYSTEMS	S	3	0	0	3	7.5		
UR	END5151	STATISTICAL DATA ANALYSIS	S	3	0	0	3	7.5	END5156	RELIABILITY ENGINEERING	S	3	0	0	3	7.5		
CO	END5153	EXPERIMENTAL DESIGN	S	3	0	0	3	7.5	END5140	NOISE IMPACT ENGINEERING	S	3	0	0	3	7.5		
	END5155	STOCHASTIC PROCESSES	S	3	0	0	3	7.5	END5138	MULTICRITERIA DECISION MAKING	S	3	0	0	3	7.5		
	END5117	MANUFACTURING PROCESSES CONTROL	S	3	0	0	3	7.5	END5142	DATA MİNİNG	S	3	0	0	3	7.5		
		1	Tota	al C	redi	its	12	30	Total Credits 12 30									
		III. TERM / FALL							IV. TERM / SPRING									
E SIS	END5181	ADVANCED TOPICS IN MA THESIS I	Z	4	0	0	0	5	END5182	ADVANCED TOPICS IN MA THESIS II	Ζ	4	0	0	0	5		
IE JE	END5173	SEMINAR (CLASS)	Z	0	2	0	0	5	END5174	SEMINAR (THESİS)	Z	0	2	0	0	5		
S E	END5191	MA THESIS I	Z	0	1	0	0	20	END5192 MA THESIS II Z				1	0	0	20		
			Tota	al C	redi	its	0	30			Tot	al C	red	its	0	30		
			TC)TA	L C	RE	EDITS:	24	- TOTAL	ECTS: 120								

Not: Students are expected to register to a total of 12 credits (30 ECTS) selective and core courses every academic term.

Students have the option of choosing one (1) selective course from another department with the endorsement of the supervisor.



	ENGINEERING AND TECHNOLOGY MANAGEMENT MASTER OF SCIENCE DEGREE PROGRAM (WITHOUT THESIS)												
Kodu/Grubu	Dersin Adı	Т	U	L	Credit	ECTS	Prereq.						
END5590	ENGINEERING AND TECHNOLOGY MANAGEMENT PROJECT	3	0	0	3	7.5							
S-1	DECISION ANALYSIS ELECTIVES				6 (2 courses)	15							
S-2	INVESTMENT PLANNİNG ELECTİVES				3 (1 course)	7.5							
S-3	QUALİTY MANAGEMENT ELECTİVES				3 (1 course)	7.5							
S-4	ORGANİZATİONAL MANAGEMENT ELECTİVES				6 (2 courses)	15							
S-5	BUSSINESS MANAGEMENT ELECVTIVES				6 (2 courses)	15							
S-6	TECHNOLOGY MANAGEMENT ELECTIVES				9 (3 courses)	22.5							
	Topl	edi	36	90									

Note: The students are expected to register a total of 12 credits (30 ECTS) courses every academic term in order to complete the program in three terms.

Recomended electives from each group can be freely selected at each term..

Student may register to END5590 Engineering and Technology Management Project earliest in the third term

Students who are not able to complete the program requirements at the end of third term, may continue to register for courses in the fourth term.



DLI ANIMENT OF

Industrial Engineering

DEI	DEPARTMENT / PROGRAM Industrial Engineering/ M.S. Program in Engineering and Technology Management (Without Thesis)																	
		I. TERM / FALL					II. TERM / SPRING											
	Code	Course Title	Туре	Т	U	L	Credit	ECTS	Code	Course Title	Туре	Т	U	L	Credit	ECTS		
	END5501	PROBABILITY AND STATISTICS IN ENGINEERING	S-1	3	0	0	3	7.5	END5502	APPLIED OPERATIONS RESEARCH	S-1	3	0	0	3	7.5		
	END5511	ENGINEERING ECONOMY	S-2	3	0	0	3	7.5	END5504	ENGINEERING OPTIMIZATION	S-1	3	0	0	3	7.5		
	END5531	LEADERSHIP AND MANAGEMENT FOR ENGINEERS	S-4	3	0	0	3	7.5	END5513	ENGINEERING PROJECT MANAGEMENT	S-2	3	0	0	3	7.5		
E	END5541	ACCOUNTING AND FINANCE FOR ENGINEERS	S-5	3	0	0	3	7.5	END5524	LEAN PRODUCTION AND SERVICE MANAGEMENT	S-3	S-3 3 0 0 3						
AG	END5551	STRATEGIC TECHNOLOGY MANAGEMENT	S-6	3	0	0	3	7.5	END5532	HUMAN FACTORS ENGINEERING	S-4	3	0	0	3	7.5		
SE ST	END5555	INFORMATION SYSTEMS MANAGEMENT	S-6	3	0	0	3	7.5	END5534	ORGANIZATIONAL BEHAVIOR AND COMMUNICATION	S-4	3	0	0	3	7.5		
UR									END5544	ENTREPRENEURSHIP	S-5	3	0	0	3	7.5		
CO									END5542	FINANCIAL RESEARCH AND DEVELOPMENT	S-5	3	0	0	3	7.5		
_									END5552	PRODUCT DESIGN AND DEVELOPMENT	S-6	3	0	0	3	7.5		
									END5562	ENVIRONMENTAL HEALTH AND SAFETY MANAGEMENT	S-6	3	0	0	3	7.5		
									END5554	SUPPLY CHAIN MANAGEMENT	S-6	3	0	0	3	7.5		
									END5560	LEGAL ISSUES IN ENGINEERING MANAGEMENT	S-6	3	0	0	3	7.5		
									END5564	ENERGY MANAGEMENT	S-6	3	0	0	3	7.5		
	TOTAL CREDITS 12 30									, ,	ГОТАL	CR	EDI	TS	12	30		
		III. TERM / FALL							IV. TERM / SPRING									
	END5590	ENG. AND TECHNOLOGY MANAGEMENT PROJECT	Z	3	0	0	3	7.5										
SIS	END5503	DECISION ANALYSIS UNDER RISK AND UNCERTAINTY	S-1	3	0	0	3	7.5										
HE	END5522	STATISTICAL QUALITY CONTROL	S-3	3	0	0	3	7.5										
E	END5533	HUMAN RESOURCES MANAGEMENT	S-4	3	0	0	3	7.5										
V G	END5543	MARKETING TECHNOLOGY PRODUCTS	S-5	3	0	0	3	7.5										
STA	END5553	PRODUCTION PLANNING AND MANAGEMENT	S-6	3	0	0	3	7.5										
	END5557	RESEARCH AND DEVELOPMENT MANAGEMENT	S-6	3	0	0	3	7.5										
	Total Credits 12 30										Т	otal (Crec	lits				
				0	TA	LC	REDITS	: 36	- TOTAL E	CTS: 90								

Not: The students are expected to register a total of 12 credits (30 ECTS) courses every academic term in order to complete the program in three terms.

Recomended electives from each group can be freely selected at each term..

Student may register to END5590 Engineering and Technology Management Project earliest in the third term

Students who are not able to complete the program requirements at the end of third term, may continue to register for courses in the fourth term

EK: 6/12



DE	DEPARTMENT OF Industrial Engineering DEPARTMENT / PROGRAM Industrial Engineering / Doctoral Program															
DE		I. TERM / FALL	2101211102		II. TERM / SPRING											
	Code	Course Title	Туре	T	UL	Credit	ECTS	Code	Course Title	Туре	Т	U	L	Credit	ECTS	
	END6101	LINEAR PROGRAMMING	Z	3	0 0	3	7.5	END6102	INTEGER PROGRAMMING	Z	3	0	0	3	7.5	
								END6112	ADVANCED SIMULATION TECHNIQUES	Z	3	0	0	3	7.5	
GE	END6105	DYNAMIC PROGRAMMING	S	3	0 0	3	7.5	END6104	NONLINEAR PROGRAMMING	S	3	0	0	3	7.5	
τA	END6113	SUPPLY CHAIN MANAGEMENT	S	3	0 0	3	7.5	END6108	COMPLEXITY ANALYSIS	S	3	0	0	3	7.5	
RSE S	END6115	MANAGEMENT OF INTEGRATED MANUFACTURING SYSTEMS	S	3	0 0	3	7.5	END6114	DESIGN OF INTEGRATED MANUFACTURING SYSTEMS	S	3	0	0	3	7.5	
OO	END6117	MANAGEMENT OF PRODUCT DESIGN	S	3	0 0	3	7.5	END6116	ADVANCED TOPICS IN QUALITY CONTROL	S	3	0	0	3	7.5	
С	END6121	NEURAL NETWORKS	S	3	0 0	3	7.5	END6122	ARTIFICIAL INTELLIGENCE	S	3	0	0	3	7.5	
	END6131	FINANCIAL ENGINEERING	S	3	0 0	3	7.5	END6142	PHYSIOLOGY AND PSYCHOLOGY IN ERGONOMICS	S	3	0	0	3	7.5	
	END6141	HUMAN-MACHINE SYSTEMS	S	3	0 0	3	7.5	END6144	ERGONOMICS IN PRODUCT DESIGN	S	3	0	0	3	7,5	
			TOPLAM KREDİ 12 30													
	III. TERM / FALL								IV. TERM / SPRING							
	FEN6001	RESEARCH METHODS	Z	2	0 0	0	5	END6182	ADVANCED TOPICS IN PHD THESIS I	Z	3	0	0 (0	5	
	END6171	SEMINAR (CLASS)	Z	0	$\begin{array}{c c} 0 & 0 \\ \hline 0 & 0 \\ \hline \end{array}$	0	5	END6172	SEMINAR (THESIS)	Z	3	2	0 ()	5	
	YE161//	PHD PROFICIENCY EXAMINATION			0 0 DEDI	0	20	END6192	PHD THESIS I)	20	
SIS		V TERM / FALL	IUFLA	VI TERM / SPRING												
THE	END6183	ADVANCED TOPICS IN PHD THESIS II	Z	4	0 0	0	5	END6184	ADVANCED TOPICS IN PHD THESIS III	Z	4	0	0	0	5	
E]	ENS6121	DEVELOPMENT AND LEARNING	Z	3	0 0	0	5	ENS6122	PLANNING AND EVOLUTION IN EDUCATION	Z	3	2	0	0	5	
LAG	END6193	PHD THESIS II	Z	0	1 0	0	20	END6194	PHD THESIS III	Z	0	1	0	0	20	
S			TOPLA	M KI	REDİ	0	30	TOPLAM KREDİ 0 30								
		VII. TERM / FALL			-		•		VIII. TERM / SPRING							
	END6185	ADVANCED TOPICS IN PHD THESIS IV	Z	4	0 0	0	5	END6186	ADVANCED TOPICS IN PHD THESIS V	Z	4	0	0	0	5	
	END6195	PHD THESIS IV			1 0	0	25	END6196 PHD THESIS V Z					0	0	25	
			Тор	olam l	Aredi		<u>30</u>	TOT	AL ECTS. 240	Тој	plam	<u>i Kr</u>	edi	0	30	
					ιυιΑ	L CKED	115:24	- 1017	AL EC 15: 240							

Not: The student is expected to take a total of 12 credits (30 ECTS) core/selective courses every academic term for the I. and II. terms. * Success in Ph.D. qualifying exam is a prerequisite to register courses following the term III. ** These courses can be taken during the thesis stage.