





**ULUDAĞ UNIVERSITY**  
**INSTITUTE OF NATURAL SCIENCES**  
**2015-2016 ACADEMIC YEAR COURSE PLAN**

**ENGINEERING AND TECHNOLOGY MANAGEMENT**  
**MASTER OF SCIENCE DEGREE PROGRAM (WITHOUT THESIS)**

Kodu/Grubu	Dersin Adı	T	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 PLANNING ELECTIVES				3 (1 course)	7.5	
S-3	QUALITY MANAGEMENT ELECTIVES				3 (1 course)	7.5	
S-4	ORGANIZATIONAL MANAGEMENT ELECTIVES				6 (2 courses)	15	
S-5	BUSSINESS MANAGEMENT ELECVTIVES				6 (2 courses)	15	
S-6	TECHNOLOGY MANAGEMENT ELECTIVES				9 (3 courses)	22.5	
<b>Toplam Kredi</b>					<b>36</b>	<b>90</b>	

**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..

ULUDAĞ UNIVERSITY INSTITUTE OF NATURAL SCIENCES 2015-2016 ACADEMIC YEAR COURSE PLAN																			
DEPARTMENT OF		Industrial Engineering																	
DEPARTMENT / PROGRAM		Industrial Engineering/ M.S. Program in Engineering and Technology Management (Without Thesis)																	
COURSE STAGE	I. TERM / FALL								II. TERM / SPRING										
	Code	Course Title	Type	T	U	L	Credit	ECTS	Code	Course Title	Type	T	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			
	END5541	ACCOUNTING AND FINANCE FOR ENGINEERS	S-5	3	0	0	3	7.5	END5524	LEAN PRODUCTION AND SERVICE MANAGEMENT	S-3	3	0	0	3	7.5			
	END5551	STRATEGIC TECHNOLOGY MANAGEMENT	S-6	3	0	0	3	7.5	END5532	HUMAN FACTORS ENGINEERING	S-4	3	0	0	3	7.5			
	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			
									END5544	ENTREPRENEURSHIP	S-5	3	0	0	3	7.5			
									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				
<b>TOTAL CREDITS</b>								<b>12</b>	<b>30</b>	<b>TOTAL CREDITS</b>								<b>12</b>	<b>30</b>
STAGE THESIS	III. TERM / FALL								IV. TERM / SPRING										
	END5590	ENG. AND TECHNOLOGY MANAGEMENT PROJECT	Z	3	0	0	3	7.5											
	END5503	DECISION ANALYSIS UNDER RISK AND UNCERTAINTY	S-1	3	0	0	3	7.5											
	END5522	STATISTICAL QUALITY CONTROL	S-3	3	0	0	3	7.5											
	END5533	HUMAN RESOURCES MANAGEMENT	S-4	3	0	0	3	7.5											
	END5543	MARKETING TECHNOLOGY PRODUCTS	S-5	3	0	0	3	7.5											
	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											
<b>Total Credits</b>								<b>12</b>	<b>30</b>	<b>Total Credits</b>									
<b>OTAL CREDITS: 36 - TOTAL ECTS: 90</b>																			

**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.

Recommended 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

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**2015-2016 ACADEMIC YEAR COURSE PLAN**

DEPARTMENT OF		Industrial Engineering																		
DEPARTMENT / PROGRAM		Industrial Engineering / Doctoral Program																		
<b>COURSE STAGE</b>	I. TERM / FALL								II. TERM / SPRING											
	Code	Course Title	Type	T	U	L	Credit	ECTS	Code	Course Title	Type	T	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				
	END6105	DYNAMIC PROGRAMMING	S	3	0	0	3	7.5	END6104	NONLINEAR PROGRAMMING	S	3	0	0	3	7.5				
	END6113	SUPPLY CHAIN MANAGEMENT	S	3	0	0	3	7.5	END6108	COMPLEXITY ANALYSIS	S	3	0	0	3	7.5				
	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				
	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				
	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					
<b>TOPLAM KREDİ</b>								<b>12</b>	<b>30</b>	<b>TOPLAM KREDİ</b>								<b>12</b>	<b>30</b>	
<b>STAGE THESIS</b>	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	0	0	0	5	END6172	SEMINAR (THESIS)	Z	3	2	0	0	5				
	YET6177	PHD PROFICIENCY EXAMINATION	Z	0	0	0	0	20	END6192	PHD THESIS I	Z	0	1	0	0	20				
	<b>TOPLAM KREDİ</b>								<b>0</b>	<b>30</b>	<b>TOPLAM KREDİ</b>								<b>0</b>	<b>30</b>
	V. TERM / FALL								VI. TERM / SPRING											
	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				
	ENS6121	DEVELOPMENT AND LEARNING	Z	3	0	0	0	5	ENS6122	PLANNING AND EVOLUTION IN EDUCATION	Z	3	2	0	0	5				
	END6193	PHD THESIS II	Z	0	1	0	0	20	END6194	PHD THESIS III	Z	0	1	0	0	20				
	<b>TOPLAM KREDİ</b>								<b>0</b>	<b>30</b>	<b>TOPLAM KREDİ</b>								<b>0</b>	<b>30</b>
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	Z	0	1	0	0	25	END6196	PHD THESIS V	Z	0	1	0	0	25					
<b>Toplam Kredi</b>								<b>0</b>	<b>30</b>	<b>Toplam Kredi</b>								<b>0</b>	<b>30</b>	
<b>TOTAL CREDITS: 24 - TOTAL ECTS: 240</b>																				

**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.