T.C.
MUNZUR UNIVERSITY
COURSE DESCRIPTION FORM

Course Title: MY5001- MATEMATICAL MODELING AND OPTIMIZATION				**Division / Department**: INSTITUTE OF HIGHER EDUCATION/ MASTER PROGRAM IN ENGINEERING MANAGEMENT			
Semester	**Theoretical Hours**	**Application Hours**	**Total Hours**	**Credit**	**ECTS**	**Language of Instruction**	**Type: Compulsory / Elective**
AUTUMN / SPRING	3	0	3	3	7.5	Turkish	Elective
Prerequisites							
Instructor					**Mail :** **Web :**		
Course Assistant					**Mail :** **Web :**		
Groups Classes							
Aim of The Course	The course will introduce students to the mathematical modeling, solution algorithms and optimization of problems in industrial engineering, operations research, manufacturing, supply chain, scheduling and logistics. This course will appeal to industrial engineering students as well as mathematics, mathematical engineering, management engineering, production engineering, computer engineering and mechatronics engineering students.						
Course Objectives							
Learning Outcomes and Competencies of the Course	• Students learn mathematical modeling of engineering problems. • Learn the types and rules of modeling specific to different engineering problems. • Learns the coding of the established model in package programs. • Makes sensitivity analysis of the results of the solved model.						
Basic and Supplementary Sources	• Lecture Notes • J. Birge and F. Lourveaux, Introduction to Stochastic Programming, Springer, 1997. • "Introduction to Management Science: A Modeling and Case Studies Approach with Spreadsheets" by Frederick S. Hiller, Mark S. Hiller, McGraw Hill, 2008. • Wolsey, Laurence A. Integer programming. Vol. 42. New York: Wiley, 1998.						
Course Method	Face to Face						

T.C.
MUNZUR UNIVERSITY
COURSE DESCRIPTION FORM

		Mark as (X) if any	Percentage (%) Contribution to Overall Average
Evaluation Criteria	**1. Midterm Exam**	X	**50**
	2. Midterm Exam		
	3. Midterm Exam		
	4. Midterm Exam		
	Oral Examination		
	Practice Exam (Laboratory, Project etc.)		
	Final Exam	X	**50**

Semester Course Plan

Week	Topics
1	Introduction; Problem concept, problem definition steps;
2	Mathematical model; model building techniques, linear models;
3	Integer models; nonlinear models, Stochastic models.
4	Problem-specific model identification; model building,
5	Coding of the model in optimization packages (GAMS/IBMIlog/Phyton);
6	Coding of the model in optimization packages (GAMS/IBMIlog/Phyton);
7	Coding the model in optimization packages (GAMS/IBMIlog/Phyton); Analyzing the results of the solved model,
8	Midterm Exam
9	Sensitivity analysis and evaluation of solutions;
10	Model building/solving studies specific to the domain (production, supply chain, scheduling and logistics, etc.).
11	Model building/solving studies specific to the domain (production, supply chain, scheduling and logistics, etc.).
12	Model building/solving studies specific to the domain (production, supply chain, scheduling and logistics, etc.).
13	Student project presentations
14	Student project presentations

T.C.
MUNZUR UNIVERSITY
COURSE DESCRIPTION FORM

Course Title: MY5002- FUZZY LOGIC				**Division / Department**: INSTITUTE OF HIGHER EDUCATION/ MASTER PROGRAM IN ENGINEERING MANAGEMENT			
Semester	**Theoretical Hours**	**Application Hours**	**Total Hours**	**Credit**	**ECTS**	**Language of Instruction**	**Type: Compulsory / Elective**
AUTUMN / SPRING	3	0	3	3	7.5	Turkish	Elective
Prerequisites							
Instructor				**Mail :** **Web :**			
Course Assistant				**Mail :** **Web :**			
Groups Classes							
Aim of The Course	Decision making is a helpful tool that we need in many areas. In addition, decision making methods under uncertainty enable decision makers to produce realistic solutions. The aim of this course is to familiarise students with these methods.						
Course Objectives							
Learning Outcomes and Competencies of the Course	• Students use the knowledge gained to apply basic modelling and decision-making techniques in engineering. • Students evaluate problems analytically. • Students obtain more realistic results in the evaluation of events.						
Basic and Supplementary Sources	• Lecture Notes • J. Birge and F. Lourveaux, Introduction to Stochastic Programming, Springer, 1997. • "Introduction to Management Science: A Modeling and Case Studies Approach with Spreadsheets" by Frederick S. Hiller, Mark S. Hiller, McGraw Hill, 2008. • Wolsey, Laurence A. Integer programming. Vol. 42. New York: Wiley, 1998.						
Course Method	Face to Face						

T.C.
MUNZUR UNIVERSITY
COURSE DESCRIPTION FORM

		Mark as (X) if any	Percentage (%) Contribution to Overall Average
Evaluation Criteria	**1. Midterm Exam**	X	**50**
	2. Midterm Exam		
	3. Midterm Exam		
	4. Midterm Exam		
	Oral Examination		
	Practice Exam (Laboratory, Project etc.)		
	Final Exam	X	**50**

Semester Course Plan

Week	Topics
1	Course Introduction
2	Classical and Fuzzy Sets
3	Fuzzy Relationships
4	Membership Function
5	Clarification
6	Fuzzy Numbers
7	Fuzzy Rule Based Systems
8	1st visa
9	Fuzzy Control Systems, MATLAB Fuzzy Logic Toolbox training
10	Fuzzy Multi-Criteria Decision Making-1 (Fuzzy Analytical Hierarchy Process)
11	Fuzzy Multi-Criteria Decision Making-2 (Fuzzy TOPSIS)
12	Fuzzy Superiority Benchmarking
13	Fuzzy Multi-objective Decision Making
14	Decision Trees

T.C.
MUNZUR UNIVERSITY
COURSE DESCRIPTION FORM

Course Title: MY5003- STATISTICAL ANALYSIS FOR ENGINEERS				**Division / Department**: INSTITUTE OF HIGHER EDUCATION/ MASTER PROGRAM IN ENGINEERING MANAGEMENT			
Semester	**Theoretical Hours**	**Application Hours**	**Total Hours**	**Credit**	**ECTS**	**Language of Instruction**	**Type: Compulsory / Elective**
AUTUMN / SPRING	3	0	3	3	7.5	Turkish	Elective

Prerequisites		
Instructor		**Mail :** **Web :**
Course Assistant		**Mail :** **Web :**
Groups Classes		
Aim of The Course	The aim of this course is to provide the students with the necessary knowledge about the use of statistical methods in engineering applications, to give them the ability to model statistical problems and to improve their problem solving skills with the help of statistical decision making tools.	
Course Objectives		
Learning Outcomes and Competencies of the Course	• Through the topics covered in this course, students will improve their decision-making skills on different engineering problems. • Gain the ability to apply basic statistical techniques in management • Gains the ability to adapt management skills to daily life.	
Basic and Supplementary Sources	• Walpole, R.E., Myers, R.H., Myers, S.L. Ye K.E., Probability and Statistics for Engineers and Scientists, 9th Edition, Prentice Hall, 2011. • Hatcher, L., Advanced Statistics in Research, Shadow Finch Media, 2013.	
Course Method	Face to Face	

T.C.
MUNZUR UNIVERSITY
COURSE DESCRIPTION FORM

		Mark as (X) if any	Percentage (%) Contribution to Overall Average
Evaluation Criteria	**1. Midterm Exam**	X	**50**
	2. Midterm Exam		
	3. Midterm Exam		
	4. Midterm Exam		
	Oral Examination		
	Practice Exam (Laboratory, Project etc.)		
	Final Exam	X	**50**

Semester Course Plan

Week	Topics
1	Basic probability knowledge,
2	Basic probability knowledge, Random variable concept
3	Probability distributions
4	Probability distributions
5	Normal distribution, Central limit theorem
6	Random sampling
7	Point and range estimation
8	Midterm exam
9	Significance tests, Statistical hypothesis tests
10	Statistical hypothesis tests, Conformity tests
11	Linear regression and correlation
12	Linear regression and correlation
13	Linear regression and correlation
14	Software applications

T.C.
MUNZUR UNIVERSITY
COURSE DESCRIPTION FORM

Course Title: MY5003- STATISTICAL ANALYSIS FOR ENGINEERS				**Division / Department**: INSTITUTE OF HIGHER EDUCATION/ MASTER PROGRAM IN ENGINEERING MANAGEMENT			
Semester	**Theoretical Hours**	**Application Hours**	**Total Hours**	**Credit**	**ECTS**	**Language of Instruction**	**Type: Compulsory / Elective**
AUTUMN / SPRING	3	0	3	3	7.5	Turkish	Elective

Prerequisites		
Instructor		**Mail :** **Web :**
Course Assistant		**Mail :** **Web :**
Groups Classes		
Aim of The Course	The aim of this course is to provide the students with the necessary knowledge about the use of statistical methods in engineering applications, to give them the ability to model statistical problems and to improve their problem solving skills with the help of statistical decision making tools.	
Course Objectives		
Learning Outcomes and Competencies of the Course	• Through the topics covered in this course, students will improve their decision-making skills on different engineering problems. • Gain the ability to apply basic statistical techniques in management • Gains the ability to adapt management skills to daily life.	
Basic and Supplementary Sources	• Walpole, R.E., Myers, R.H., Myers, S.L. Ye K.E., Probability and Statistics for Engineers and Scientists, 9th Edition, Prentice Hall, 2011. • Hatcher, L., Advanced Statistics in Research, Shadow Finch Media, 2013.	
Course Method	Face to Face	

T.C.
MUNZUR UNIVERSITY
COURSE DESCRIPTION FORM

Evaluation Criteria		**Mark as (X) if any**	**Percentage (%) Contribution to Overall Average**
	1. Midterm Exam	X	**50**
	2. Midterm Exam		
	3. Midterm Exam		
	4. Midterm Exam		
	Oral Examination		
	Practice Exam (Laboratory, Project etc.)		
	Final Exam	X	**50**

Semester Course Plan

Week	Topics
1	Temel olasılık bilgisi,
2	Temel olasılık bilgisi, Rassal değişken kavramı
3	Olasılık dağılımları
4	Olasılık dağılımları
5	Normal dağılım, Merkezi limit teoremi
6	Rassal örnekleme
7	Nokta ve aralık tahmini
8	Vize sınavı
9	Anlamlılık testleri, İstatistiksel hipotez testleri
10	İstatistiksel hipotez testleri, Uygunluk testleri
11	Doğrusal regresyon ve korelasyon
12	Doğrusal regresyon ve korelasyon
13	Doğrusal regresyon ve korelasyon
14	Yazılım uygulamaları

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MUNZUR UNIVERSITY
COURSE DESCRIPTION FORM

Course Title: MY5004- PRINCIPLES OF SCIENTIFIC RESEARCH AND PUBLICATION ETHICS				**Division / Department**: INSTITUTE OF HIGHER EDUCATION/ MASTER PROGRAM IN ENGINEERING MANAGEMENT			
Semester	**Theoretical Hours**	**Application Hours**	**Total Hours**	**Credit**	**ECTS**	**Language of Instruction**	**Type: Compulsory / Elective**
AUTUMN / SPRING	3	0	3	3	7.5	Turkish	Elective
Prerequisites							
Instructor				**Mail :** **Web :**			
Course Assistant				**Mail :** **Web :**			
Groups Classes							
Aim of The Course	The general aim of the course is to introduce and teach students research methods						
Course Objectives							
Learning Outcomes and Competencies of the Course	• Students gain practical research skills for academic research and business life. • The student knows the principles of research. • Students will be able to link research processes with the theories of specialisation.						
Basic and Supplementary Sources	• Şener Büyüköztürk Özcan E. Akgün Şirin Karadeniz Funda Demirel Ebru Kılıç, Bilimsel Araştırma Yöntemleri, Pegem Akademi Yayıncılık, Ankara						
Course Method	Face to Face						

T.C.
MUNZUR UNIVERSITY
COURSE DESCRIPTION FORM

Evaluation Criteria		**Mark as (X) if any**	**Percentage (%) Contribution to Overall Average**
	1. Midterm Exam	X	**50**
	2. Midterm Exam		
	3. Midterm Exam		
	4. Midterm Exam		
	Oral Examination		
	Practice Exam (Laboratory, Project etc.)		
	Final Exam	X	**50**

Semester Course Plan

Week	Topics
1	Research process and design
2	Elements of research proposals
3	Publication Ethics
4	Literature Review
5	Research Strategies (Literature)
6	Research Strategies (Application)
7	Sampling analysis
8	Survey design
9	Midterm exam
10	Data Collection
11	Data Collection
12	Research ethics
13	Qualitative data analysis
14	Report generation

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COURSE DESCRIPTION FORM

Course Title: MY5004- TOTAL QUALITY MANAGEMENT				**Division / Department**: INSTITUTE OF HIGHER EDUCATION/ MASTER PROGRAM IN ENGINEERING MANAGEMENT			
Semester	**Theoretical Hours**	**Application Hours**	**Total Hours**	**Credit**	**ECTS**	**Language of Instruction**	**Type: Compulsory / Elective**
AUTUMN / SPRING	3	0	3	3	7.5	Turkish	Elective

Prerequisites		
Instructor		**Mail :** **Web :**
Course Assistant		**Mail :** **Web :**
Groups Classes		
Aim of The Course	Quality, Total Quality (TQ) and Total Quality Management (TQM) to adopt the concepts of quality, Total Quality (TQ) and Total Quality Management (TQM) to inform the students at a level that can be applied in an enterprise, as well as the theoretical background of TQM to gain TQM applications with case studies to be examined.	
Course Objectives		
Learning Outcomes and Competencies of the Course	• The student gains the ability to apply the basic functions of quality. • Student knows the importance of total quality management for organisations. • Students will be able to analyse, interpret and develop solutions to problems related to total quality management (TQM).	
Basic and Supplementary Sources	• Ertugrul, İ. (2013). Toplam Kalite Kontrol ve Teknikleri. Bursa: Ekin Basım Yayın.	
Course Method	Face to Face	

T.C.
MUNZUR UNIVERSITY
COURSE DESCRIPTION FORM

Evaluation Criteria		**Mark as (X) if any**	**Percentage (%) Contribution to Overall Average**
	1. Midterm Exam	X	**50**
	2. Midterm Exam		
	3. Midterm Exam		
	4. Midterm Exam		
	Oral Examination		
	Practice Exam (Laboratory, Project etc.)		
	Final Exam	X	**50**

Semester Course Plan

Week	Topics
1	General information about quality and various definitions
2	Products, services and their quality; quality costs; quality productivity relationship;
3	New approaches to quality; Kaizen; FTE; quality circles
4	Approaches of related scientists to total quality management
5	General philosophy and principles of total quality management
6	Application of Total Quality Management in terms of behavioural and organisational concepts and technical concepts
7	Quality improvement, problem solving and total quality management tools
8	1st midterm exam
9	Quality improvement tools and techniques
10	Quality Function Migration and Applications
11	Quality assurance systems and ISO 9001:2000 quality assurance standards
12	Quality costs and quality applications in businesses
13	Presentations
14	Presentations

T.C.
MUNZUR UNIVERSITY
COURSE DESCRIPTION FORM

Course Title: MY5004- STATISTICAL PROCESS CONTROL				**Division / Department**: INSTITUTE OF HIGHER EDUCATION/ MASTER PROGRAM IN ENGINEERING MANAGEMENT			
Semester	**Theoretical Hours**	**Application Hours**	**Total Hours**	**Credit**	**ECTS**	**Language of Instruction**	**Type: Compulsory / Elective**
AUTUMN / SPRING	3	0	3	3	7.5	Turkish	Elective

Prerequisites		
Instructor		**Mail :** **Web :**
Course Assistant		**Mail :** **Web :**
Groups Classes		
Aim of The Course	Provide a comprehensive description of modern quality control techniques including the design of statistical process control systems, acceptance sampling and process improvement	
Course Objectives		
Learning Outcomes and Competencies of the Course	• Understanding the basic concepts and philosophy of quality improvement • Define the DMAIC process (define, measure, analyse, develop and control) • To develop the ability to use statistical process control methods • To develop the ability to design, use and interpret control graphics	
Basic and Supplementary Sources	• Montgomery, Douglas C. (2009). Introduction to Statistical Quality Control, Sixth Edition. John Wiley and Sons, Inc. (ISBN: 978-0-470-16992-6). • Burnak, N. (1997). Toplam kalite yönetimi–istatistiksel süreç kontrolü. Osmangazi Üniversitesi Mühendislik Fakültesi Yayınları.	
Course Method	Face to Face	

T.C.
MUNZUR UNIVERSITY
COURSE DESCRIPTION FORM

		Mark as (X) if any	Percentage (%) Contribution to Overall Average
Evaluation Criteria	**1. Midterm Exam**	X	**50**
	2. Midterm Exam		
	3. Midterm Exam		
	4. Midterm Exam		
	Oral Examination		
	Practice Exam (Laboratory, Project etc.)		
	Final Exam	X	**50**

Semester Course Plan

Week	Topics
1	Course introduction - Introduction to Quality Concept
2	Definition of Quality and Quality Development
3	Statistical Methods for Quality Control and Improvement
4	DMAIC Process
5	DMAIC Process (continued)
6	Statistical Process Control - Definition and History
7	Midterm Exam-1
8	Control Charts for Variables
9	Control Charts for Attributes
10	Process Capability Analysis
11	Process Capability Analysis (continued)
12	Measurement Systems Qualification Analysis
13	Moving Average Control Chart
14	Exponential Weighted Moving Average Chart

T.C.
MUNZUR UNIVERSITY
COURSE DESCRIPTION FORM

Course Title: MY5007 FINANCIAL MANAGEMENT				**Division / Department**: INSTITUTE OF HIGHER EDUCATION/ MASTER PROGRAM IN ENGINEERING MANAGEMENT			
Semester	**Theoretical Hours**	**Application Hours**	**Total Hours**	**Credit**	**ECTS**	**Language of Instruction**	**Type: Compulsory / Elective**
AUTUMN / SPRING	3	0	3	3	7.5	Turkish	Elective

Prerequisites		
Instructor		**Mail :** **Web :**
Course Assistant		**Mail :** **Web :**
Groups Classes		
Aim of The Course	The aim of this course is to provide students with the ability to comprehend basic financial instruments, to evaluate financial decision making processes and to understand the effects of these decisions on value creation.	
Course Objectives		
Learning Outcomes and Competencies of the Course	• Understand the primary objectives of financial management. • Will be able to create financial plans. • Define the relationship between risk and return • Understand the time value of money and capital budgeting techniques • They will have information about bonds, bonds and stock valuation. • They will have information about Working Capital Management.	
Basic and Supplementary Sources	Brigham, Eugene, and Michael Ehrhardt. Financial management: Theory & practice. Cengage Learning, 2013.	
Course Method	Face to Face	

T.C.
MUNZUR UNIVERSITY
COURSE DESCRIPTION FORM

		Mark as (X) if any	Percentage (%) Contribution to Overall Average
Evaluation Criteria	**1. Midterm Exam**	X	**50**
	2. Midterm Exam		
	3. Midterm Exam		
	4. Midterm Exam		
	Oral Examination		
	Practice Exam (Laboratory, Project etc.)		
	Final Exam	X	**50**

Semester Course Plan

Week	Topics
1	Introduction of the course,
2	Time value of money
3	Bonds, bond valuation and interest rates
4	Bonds, bond valuation and interest rates
5	Risk, Return and Financial Asset Pricing Model
6	Risk, Return and Financial Asset Pricing Model
7	Stocks and valuation;
8	Semi-annual Examination
9	Stocks and valuation;
10	Financial options and applications in finance
11	Financial Options and Applications in Finance
12	Cost of Capital
13	Fundamentals of capital budgeting: cash flow evaluation
14	Cash flow forecasting and risk analysis

T.C.
MUNZUR UNIVERSITY
COURSE DESCRIPTION FORM

Course Title: MY5008 SYSTEM ANALYSIS AND DESIGN				**Division / Department**: INSTITUTE OF HIGHER EDUCATION/ MASTER PROGRAM IN ENGINEERING MANAGEMENT			
Semester	**Theoretical Hours**	**Application Hours**	**Total Hours**	**Credit**	**ECTS**	**Language of Instruction**	**Type: Compulsory / Elective**
AUTUMN / SPRING	3	0	3	3	7.5	Turkish	Elective

Prerequisites		
Instructor		**Mail :** **Web :**
Course Assistant		**Mail :** **Web :**
Groups Classes		
Aim of The Course	The aim of the course is to teach the system approach and concept to the graduate candidates who take the course, to teach the techniques that they will use the system approach in solving the problems they may encounter in the industries and to learn the stages in which they can analyse the system more clearly thanks to these techniques.	
Course Objectives		
Learning Outcomes and Competencies of the Course	• Students gains the ability to analyse systems. • Students will be able to apply systems analysis approach in different industries. • Students will be able to apply modern management approaches in analyses. • Students will be able to apply decision trees and SWOT analysis techniques in decision making.	
Basic and Supplementary Sources	• Systems Engineering and Analysis, Benjamin S. Blanchard, Wolter J. Fabrycky • Lecture notes	
Course Method	Face to Face	

T.C.
MUNZUR UNIVERSITY
COURSE DESCRIPTION FORM

Evaluation Criteria		**Mark as (X) if any**	**Percentage (%) Contribution to Overall Average**
	1. Midterm Exam	X	**50**
	2. Midterm Exam		
	3. Midterm Exam		
	4. Midterm Exam		
	Oral Examination		
	Practice Exam (Laboratory, Project etc.)		
	Final Exam	X	**50**

Semester Course Plan

Week	Topics
1	Introduction; System definition; System theory;
2	Analysis of system stages; Systems and theories in industries;
3	System stages in different industries; Analysis techniques used according to industry type and application area;
4	System stages in different industries; Analysis techniques used according to industry type and application area;
5	Model concept; Model types and analysis;
6	Industrial engineering techniques used in system and model analysis;
7	Industrial engineering techniques used in system and model analysis;
8	MIDTERM EXAM
9	Process analysis stages; Decision trees and analysis used in systems;
10	Decision trees used in systems and their analysis;
11	Decision trees and analysis used in systems;
12	System analysis in informatics; Leadership and SWOT analysis in systems.
13	System analysis in informatics; Leadership and SWOT analysis in systems.
14	Student Project presentations and evaluation

T.C.
MUNZUR UNIVERSITY
COURSE DESCRIPTION FORM

Course Title: MY5009 INNOVATION AND R&D MANAGEMENT				**Division / Department**: INSTITUTE OF HIGHER EDUCATION/ MASTER PROGRAM IN ENGINEERING MANAGEMENT			
Semester	**Theoretical Hours**	**Application Hours**	**Total Hours**	**Credit**	**ECTS**	**Language of Instruction**	**Type: Compulsory / Elective**
AUTUMN / SPRING	3	0	3	3	7.5	Turkish	Elective

Prerequisites		
Instructor		**Mail :** **Web :**
Course Assistant		**Mail :** **Web :**
Groups Classes		
Aim of The Course	The aim of this course is to introduce students to the analysis needed for innovation and R&D management.	
Course Objectives		
Learning Outcomes and Competencies of the Course	• Student learns innovation and its types. • Student can analyze patents. • Student learns to innovate with Creative Problem Solving Theory. • Students learn the tools they need to manage technology.	
Basic and Supplementary Sources	• Technology Management – Activities and Tools, Dilek Cetindamar, Robert Phaal and David Probert, Palgrave Macmillan • Tech Mining: Exploiting New Technologies for Competitive Advantage, Edited by Alan L. Porter and Scott W. Cunningham. • Innovation Management and New product Development, Paul Trott, Fifth Edition	
Course Method	Face to Face	

T.C.
MUNZUR UNIVERSITY
COURSE DESCRIPTION FORM

		Mark as (X) if any	Percentage (%) Contribution to Overall Average
Evaluation Criteria	**1. Midterm Exam**	X	**50**
	2. Midterm Exam		
	3. Midterm Exam		
	4. Midterm Exam		
	Oral Examination		
	Practice Exam (Laboratory, Project etc.)		
	Final Exam	X	**50**

Semester Course Plan

Week	Topics
1	Introduction to Innovation
2	Types of innovation
3	Examples of innovation
4	TRIZ - 1
5	TRIZ - 2
6	TRIZ - 3
7	Quality Function Migration
8	Midterm Exam
9	Patent Analysis-1
10	Patent Analysis -2
11	Diffusion of innovation
12	Technology assessment
13	Sample Applications -1
14	Sample Applications -2

T.C.
MUNZUR UNIVERSITY
COURSE DESCRIPTION FORM

Course Title: MY5010 INVENTORY CONTROL AND PLANNING				**Division / Department**: INSTITUTE OF HIGHER EDUCATION/ MASTER PROGRAM IN ENGINEERING MANAGEMENT			
Semester	**Theoretical Hours**	**Application Hours**	**Total Hours**	**Credit**	**ECTS**	**Language of Instruction**	**Type: Compulsory / Elective**
AUTUMN / SPRING	3	0	3	3	7.5	Turkish	Elective

Prerequisites		
Instructor		**Mail :** **Web :**
Course Assistant		**Mail :** **Web :**
Groups Classes		
Aim of The Course	The aim of this course is to teach the concept, fundamentals and theory of inventory and to develop models, inventory control and management systems that will minimize inventory costs.	
Course Objectives		
Learning Outcomes and Competencies of the Course	• Student will be able to improve inventory management and control systems. • Student gains decision making ability in inventory management. • Student will be able to model inventory management problems.	
Basic and Supplementary Sources		
Course Method	Face to Face	

T.C.
MUNZUR UNIVERSITY
COURSE DESCRIPTION FORM

Evaluation Criteria		**Mark as (X) if any**	**Percentage (%) Contribution to Overall Average**
	1. Midterm Exam	X	**50**
	2. Midterm Exam		
	3. Midterm Exam		
	4. Midterm Exam		
	Oral Examination		
	Practice Exam (Laboratory, Project etc.)		
	Final Exam	X	**50**

Semester Course Plan

Week	Topics
1	Fundamentals of Inventory; Inventory (stock) and material flow; Supply and Demand Examples; Functions of Inventory
2	Objectives of Inventory Management; Inventory (stock) Costs; ABC Inventory Control System
3	Introduction to Inventory Models; Classification of Inventory Models; Deterministic Inventory Models; General Inventory Model; Static Economic Order Quantity (ESM) Models
4	Classical ESM Model and its Variants; Economic Quantity of Production Model and its Variants
5	ESM Model with Price Discount; Warehouse Constrained Economic Order Quantity Model
6	Dynamic ESM Models; No Preparation Cost Model; Preparation Cost Model
7	Introduction to Probabilistic Inventory Models; Continuous Review Models; Partial Probability ESM Model
8	MIDTERM EXAM
9	Full Probability Economic Order Quantity Model
10	Single Period Models; No Preparation Cost Model; Preparation Cost Model (s-S Policy)
11	Multi-Period Model
12	Material Requirements Planning (MRP); Reducing Inventories with MRP; Bill of Materials and MRP Records;
13	Lot Size Strategies; Period Order Quantity Method; ESM Lot Size Method; Lot-Period Balancing Method
14	Just-in-Time Concept in Production; Push and Pull Systems; Kanban System

T.C.
MUNZUR UNIVERSITY
COURSE DESCRIPTION FORM

Course Title: MY5011-MATERIAL REQUIREMENTS AND PRODUCTION RESOURCES PLANNING				**Division / Department**: INSTITUTE OF HIGHER EDUCATION/ MASTER PROGRAM IN ENGINEERING MANAGEMENT			
Semester	**Theoretical Hours**	**Application Hours**	**Total Hours**	**Credit**	**ECTS**	**Language of Instruction**	**Type: Compulsory / Elective**
AUTUMN / SPRING	3	0	3	3	7.5	Turkish	Elective

Prerequisites		
Instructor		**Mail :** **Web :**
Course Assistant		**Mail :** **Web :**
Groups Classes		
Aim of The Course	The main objective of the course is to explain to the students the importance of planning of material needs and production resources in a business enterprise and the fundamentals of the development process from past to present.	
Course Objectives		
Learning Outcomes and Competencies of the Course	• Knowledge of the basic philosophy of MRP/CRP/MRP II/ERP/ERPII systems, • Knowledge of current software available in the sector related to these systems, • Knowledge of the use of today's ERP II systems in requirements and resource planning, • Knowledge of the general structure of MS DYNAMICS AXAPTA, an up-to-date ERP II software, • Ability to use MS DYNAMICS AXAPTA system, an up-to-date ERP II software, in resource planning, • Ability to manage projects related to these systems both on the provider and customer side	
Basic and Supplementary Sources	• “Enterprise Systems for Management”, by Luvai F. Motiwalla and Jeff Thompson, 2nd edition, 2011. • “Enterprise Resource Planning” by Mary Sumner, International Edition, Southern Illinois University, Edwardsville, Prentice Hall, 2005. • “Introduction to Materials Management” by J.R. Tony Arnold, Stephen N. Chapman, Prentice Hall, 2001 • “Production and Operations Management” by William J. Stevenson, The McGraw-Hill, 1996. • “ERP: Tools, Techniques, and Applications for Integrating the Supply Chain” by Carol A. Ptak, Eli Schragenheim, The St. Lucie Press, 2000	

T.C.
MUNZUR UNIVERSITY
COURSE DESCRIPTION FORM

	• MS Dynamics Axapta Lecture Notes
Course Method	Face to Face

		Mark as (X) if any	**Percentage (%) Contribution to Overall Average**
Evaluation Criteria	**1. Midterm Exam**	X	**50**
	2. Midterm Exam		
	3. Midterm Exam		
	4. Midterm Exam		
	Oral Examination		
	Practice Exam (Laboratory, Project etc.)		
	Final Exam	X	**50**

Semester Course Plan

Week	**Topics**
1	Course Introduction
2	Introduction to Materials Management - Planning Strategies
3	Planning Hierarchy, Material Requirements Planning (MRP)
4	How much to order? When will the order be placed? Capacity Requirements Planning (CRP)
5	Purchasing Management, Manufacturing Resource Planning (MRP II)
6	Enterprise Resource Planning (ERP-ERP II)
7	MIDTERM EXAM
8	ERP Project Management, Critical Success Factors
9	MS DYNAMICS AX ERP Program: Basic Definitions
10	MS DYNAMICS AX ERP Program: Inventory Management Module
11	MS DYNAMICS AX ERP Program: Production Module
12	MS DYNAMICS AX ERP Program: Demand Planning and Master Planning
13	Project Presentations
14	Project Presentations

T.C.
MUNZUR UNIVERSITY
COURSE DESCRIPTION FORM

Course Title: MY5012-DESIGN AND MODELING OF LEAN PRODUCTION SYSTEMS				**Division / Department**: INSTITUTE OF HIGHER EDUCATION/ MASTER PROGRAM IN ENGINEERING MANAGEMENT			
Semester	**Theoretical Hours**	**Application Hours**	**Total Hours**	**Credit**	**ECTS**	**Language of Instruction**	**Type: Compulsory / Elective**
AUTUMN / SPRING	3	0	3	3	7.5	Turkish	Elective

Prerequisites		
Instructor		**Mail :** **Web :**
Course Assistant		**Mail :** **Web :**
Groups Classes		
Aim of The Course	1. To introduce the concepts of lean thinking and lean production 2. To gain the knowledge and skills necessary for the design of an efficient production system free from waste.	
Course Objectives		
Learning Outcomes and Competencies of the Course	- Students who successfully complete this course will be able to; - Design a lean service system - Applying waste elimination methods in service systems - Create a value stream map of a system - Ability to design a Kanban system - Scheduling a mixed-model assembly line and production smoothing	
Basic and Supplementary Sources	• Jackson, T. L. (1996) Implementing A Lean Management System, Productivity Press. • Monden, Y. (1993) Toyota Production System, An Integrated Approach to Just-In-Time, Industrial Engineering and Management Press.	
Course Method	Face to Face	

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COURSE DESCRIPTION FORM

Evaluation Criteria		**Mark as (X) if any**	**Percentage (%) Contribution to Overall Average**
	1. Midterm Exam	X	**50**
	2. Midterm Exam		
	3. Midterm Exam		
	4. Midterm Exam		
	Oral Examination		
	Practice Exam (Laboratory, Project etc.)		
	Final Exam	X	**50**

Semester Course Plan

Week	Topics
1	Introduction
2	Lean Production Philosophy and Waste in Production Systems
3	Order, Cleanliness, Discipline (5s)
4	Readiness Time Analysis and Reduction
5	Push and pull systems
6	Value Stream Mapping
7	Kanban Types and Applications
8	Midterm Exam
9	Kanban, Periodic Batch Control
10	Heijunka Box
11	Manufacturing Lead Time and Inventory Costs
12	Production Smoothing and Mixed Model Assembly Line Design
13	Just in Time Production
14	Project Presentations

T.C.
MUNZUR UNIVERSITY
COURSE DESCRIPTION FORM

Course Title: MY5013-HUMAN FACTORS ENGINEERING				**Division / Department**: INSTITUTE OF HIGHER EDUCATION/ MASTER PROGRAM IN ENGINEERING MANAGEMENT			
Semester	**Theoretical Hours**	**Application Hours**	**Total Hours**	**Credit**	**ECTS**	**Language of Instruction**	**Type: Compulsory / Elective**
AUTUMN / SPRING	3	0	3	3	7.5	Turkish	Elective

Prerequisites		
Instructor		**Mail :** **Web :**
Course Assistant		**Mail :** **Web :**
Groups Classes		
Aim of The Course	The Human Factors in Systems Engineering course aims to provide a multifaceted view of the workplace that aims to organize the interaction between the employee and the work system in which he/she works. This multifaceted approach considers employee performance, human-system interaction. It takes into account human capacity and abilities. Thus, a more efficient, safe and comfortable working environment can be achieved.	
Course Objectives		
Learning Outcomes and Competencies of the Course	- Students will be able to apply human factors principles to a business system. - Students will be able to recognize basic human characteristics and understand how they affect the work system. - Students will be able to design work systems in accordance with human requirements. - Students will be able to prevent occupational accidents through design. - Students will be able to access publications and research in the field of human factors and utilize them in problems encountered. - Students will be able to design human machine interface in terms of information processing.	
Basic and Supplementary Sources	• Mühendisler İçin Ergonomi İşbilim, Fatih Babalık, 2007/2.Baskı, Nobel yayınevi	
Course Method	Face to Face	

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MUNZUR UNIVERSITY
COURSE DESCRIPTION FORM

Evaluation Criteria		**Mark as (X) if any**	**Percentage (%) Contribution to Overall Average**
	1. Midterm Exam	X	**50**
	2. Midterm Exam		
	3. Midterm Exam		
	4. Midterm Exam		
	Oral Examination		
	Practice Exam (Laboratory, Project etc.)		
	Final Exam	X	**50**

Semester Course Plan

Week	Topics
1	Introduction to human-machine systems
2	Muscular working system, Body mechanics
3	Anthropometric principles
4	Workplace design
5	Workload and work capacity
6	Physical environment Climate and lighting
7	Physical environment Noise and vibration
8	Midterm exam
9	Mental work system
10	Human-machine interface
11	Factors affecting performance
12	Cognitive ergonomics
13	Human factor in management-organisation systems
14	Team project presentation

T.C.
MUNZUR UNIVERSITY
COURSE DESCRIPTION FORM

Course Title: MY5014- SUPPLY CHAIN AND LOGISTICS MANAGEMENT				**Division / Department**: INSTITUTE OF HIGHER EDUCATION/ MASTER PROGRAM IN ENGINEERING MANAGEMENT			
Semester	**Theoretical Hours**	**Application Hours**	**Total Hours**	**Credit**	**ECTS**	**Language of Instruction**	**Type: Compulsory / Elective**
AUTUMN / SPRING	3	0	3	3	7.5	Turkish	Elective

Prerequisites		
Instructor		**Mail :** **Web :**
Course Assistant		**Mail :** **Web :**
Groups Classes		
Aim of The Course	In this course, it is aimed to provide students with basic knowledge and applications of mathematical modeling, problem solving techniques, tactical and strategic decision making tools in the field of logistics and supply chain management.	
Course Objectives		
Learning Outcomes and Competencies of the Course	• Bring engineering approaches to critical considerations in the design of supply chain logistics systems • To be able to use numerical techniques in the establishment and management of logistics networks • To be able to learn and use transportation fundamentals, modes of transportation, multi-modal transportation requirements • To be able to design warehouses and develop approaches to increase efficiency in storage activities	
Basic and Supplementary Sources	• Douglas Long, “International Logistics, Global Supply Chain Management”, Kluwer Academic Publishers, 2003. • Çancı, M., Erdal, M., Uluslararası Taşımacılık, Utikad yayını, İstanbul • Sunil Chopra, Peter Meindl, "Supply Chain Management", Prentice Hall, 2013. • Michael Watson, Sara Lewis, Peter Cacioppi, Jay Jayaraman, “Supply Chain Network Design: Applying Optimization and Analytics to the Global Supply Chain”, FT Press, 2012. • Gianpaolo Ghiani, Gilbert Laporte, Roberto Musmanno, “Introduction to Logistics Systems Planning and Control”, Wiley, 2004.	
Course Method	Face to Face	

T.C.
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COURSE DESCRIPTION FORM

Evaluation Criteria		**Mark as (X) if any**	**Percentage (%) Contribution to Overall Average**
	1. Midterm Exam	X	**50**
	2. Midterm Exam		
	3. Midterm Exam		
	4. Midterm Exam		
	Oral Examination		
	Practice Exam (Laboratory, Project etc.)		
	Final Exam	X	**50**

Semester Course Plan

Week	Topics
1	Fundamentals of supply chain and logistics systems / Establishment of these systems
2	Operation of established supply chain and logistics systems / Engineering practices to be used in operation and design
3	Numerical analysis
4	Management of international logistics networks / Design and management of national distribution networks
5	Urban logistics applications
6	Transportation and storage activities at different scales
7	Transportation modes and selection / Transportation vehicles in different modes
8	Mid-year exam
9	Mixed transportation applications
10	Warehouse Design
11	Warehouse management / In-warehouse movements
12	Information technologies in logistics and supply chain
13	Project Presentations
14	Project Presentations

T.C.
MUNZUR UNIVERSITY
COURSE DESCRIPTION FORM

Course Title: MY5015- MANUFACTURING SYSTEMS MANAGEMENT				**Division / Department**: INSTITUTE OF HIGHER EDUCATION/ MASTER PROGRAM IN ENGINEERING MANAGEMENT			
Semester	**Theoretical Hours**	**Application Hours**	**Total Hours**	**Credit**	**ECTS**	**Language of Instruction**	**Type: Compulsory / Elective**
AUTUMN / SPRING	3	0	3	3	7.5	Turkish	Elective

Prerequisites		
Instructor		**Mail :** **Web :**
Course Assistant		**Mail :** **Web :**
Groups Classes		
Aim of The Course	The aim of this course is to teach different types of production and various manufacturing technologies, to find the lowest cost or the most profitable answer to the questions of which products will be made in what quantities, in what quantities, in what specifications, where and by whom, and in this way to meet consumer demands in terms of price, time, quantity and quality, to keep the stock level as low as possible or to increase the stock turnover, to increase the degree of utilization of manpower and machine resources of the enterprise.	
Course Objectives		
Learning Outcomes and Competencies of the Course	• Student knows manufacturing systems in detail. • Student knows production methods and production systems in detail. • Students will be able to apply the basic concepts of manufacturing systems in real life. • Students will be able to plan manufacturing processes in such a way that quality products can be produced economically.	
Basic and Supplementary Sources		
Course Method	Face to Face	

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COURSE DESCRIPTION FORM

Evaluation Criteria		**Mark as (X) if any**	**Percentage (%) Contribution to Overall Average**
	1. Midterm Exam	X	**50**
	2. Midterm Exam		
	3. Midterm Exam		
	4. Midterm Exam		
	Oral Examination		
	Practice Exam (Laboratory, Project etc.)		
	Final Exam	X	**50**

Semester Course Plan

Week	Topics
1	Manufacturing and System Concept
2	An Overview of Manufacturing System, Concepts and Types of Manufacturing
3	Manufacturing Planning and Control
4	Classification of Manufacturing Systems
5	Workshop Organisation and Placement
6	Assembly Line Balancing Methods
7	Sorting and Loading Methods, Job Sorting Methods and Solving Problems
8	Mid-Year Examination
9	Planning of Loom Capacities
10	Solution of Loading Problems by Assignment Method
11	Demand Forecasts and Forecasting Methods
12	Network Analysis Techniques for Manufacturing Planning and Control Critical Path Method
13	Network Analysis Techniques for Manufacturing Planning and Control Critical Path Method
14	Preparation of Manufacturing Plans A Manufacturing Plan Example Acceleration of Projects and Time Cost Analysis Basic Alternatives in Manufacturing Planning

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MUNZUR UNIVERSITY
COURSE DESCRIPTION FORM

Course Title: MY5016-DECISION MAKING UNDER UNCERTAINTY AND RISK				**Division / Department**: INSTITUTE OF HIGHER EDUCATION/ MASTER PROGRAM IN ENGINEERING MANAGEMENT			
Semester	**Theoretical Hours**	**Application Hours**	**Total Hours**	**Credit**	**ECTS**	**Language of Instruction**	**Type: Compulsory / Elective**
AUTUMN / SPRING	3	0	3	3	7.5	Turkish	Elective

Prerequisites		
Instructor		**Mail :** **Web :**
Course Assistant		**Mail :** **Web :**
Groups Classes		
Aim of The Course	Decision making is a helpful tool that we need in many areas. In addition, decision making methods under uncertainty enable decision makers to produce realistic solutions. The aim of this course is to familiarize students with these methods.	
Course Objectives		
Learning Outcomes and Competencies of the Course		
Basic and Supplementary Sources	• Fuzzy Logic with Engineering Applications, Timothy J. Ross, McGraw-Hill • Bulanık sistemlere giriş, Guanrong Chen & Trung Tat Pham, Chapman & Hall/CRC • Bulanık çok kriterli karar verme : son gelişmelerle teori ve uygulamalar / ed. Cengiz Kahraman, Springer 2008	
Course Method	Face to Face	

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		Mark as (X) if any	Percentage (%) Contribution to Overall Average
Evaluation Criteria	**1. Midterm Exam**	X	**50**
	2. Midterm Exam		
	3. Midterm Exam		
	4. Midterm Exam		
	Oral Examination		
	Practice Exam (Laboratory, Project etc.)		
	Final Exam	X	**50**

Semester Course Plan

Week	Topics
1	Course Introduction
2	Classical and Fuzzy Sets
3	Fuzzy Relationships
4	Membership Function
5	Clarification
6	Fuzzy Numbers
7	Fuzzy Rule Based Systems
8	Midterm exam
9	Fuzzy Control Systems
10	MATLAB Fuzzy Logic Toolbox training
11	Fuzzy Multi-Criteria Decision Making-1 (Fuzzy Analytical Hierarchy Process)
12	Fuzzy Multi-Criteria Decision Making-2 (Fuzzy TOPSIS)
13	Fuzzy Superiority Benchmarking
14	Fuzzy Multi-objective Decision Making and Decision Trees

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MUNZUR UNIVERSITY
COURSE DESCRIPTION FORM

Course Title: MY5017-MULTIOBJECTIVE DECISION MAKING				**Division / Department**: INSTITUTE OF HIGHER EDUCATION/ MASTER PROGRAM IN ENGINEERING MANAGEMENT			
Semester	**Theoretical Hours**	**Application Hours**	**Total Hours**	**Credit**	**ECTS**	**Language of Instruction**	**Type: Compulsory / Elective**
AUTUMN / SPRING	3	0	3	3	7.5	Turkish	Elective

Prerequisites		
Instructor		**Mail :** **Web :**
Course Assistant		**Mail :** **Web :**
Groups Classes		
Aim of The Course	To reveal the differences between individual and group decision making techniques 2. To learn in which situation multiobjective group decision making approaches should be used 3. To teach different multiobjective group decision making techniques 4. To analyse the weaknesses, similarities and differences of the techniques	
Course Objectives		
Learning Outcomes and Competencies of the Course	• The student defines decision problems and creates mathematical models. • The student gains the ability to solve potential problems in the decision-making process in the business world. • The student uses mathematical techniques to solve decision problems and makes decision analyses on the solutions. • Students will be able to define the basic objective functions in the construction of multi-objective models. • Students will be able to apply the analysis and results of multi-objective models to real problems. • Students will be able to assist decision-making teams in business decision-making areas and support management decisions.	
Basic and Supplementary Sources	• "Evaluation and decision models with multiple criteria : stepping stones for the analyst" Denis Bouyssou, Thierry Marchant, Marc Pirlot, Alexis Tsoukias, Philippe Vincke, Springer, New York, 2006. • "Decisions by Objectives" Ernest Forman and Mary Ann Selly, World Scientific Publishing Company, 2002. Free Download: http://www.mdm.gwu.edu/forman/DBO.pdf • Yöneylem Araştırması (6. Basımdan Çeviri), Hamdy A. Taha, Literatür Yayıncılık, İstanbul, 2000.	
Course Method	Face to Face	

T.C.
MUNZUR UNIVERSITY
COURSE DESCRIPTION FORM

Evaluation Criteria		**Mark as (X) if any**	**Percentage (%) Contribution to Overall Average**
	1. Midterm Exam	X	**50**
	2. Midterm Exam		
	3. Midterm Exam		
	4. Midterm Exam		
	Oral Examination		
	Practice Exam (Laboratory, Project etc.)		
	Final Exam	X	**50**

Semester Course Plan

Week	**Topics**
1	Introduction to Multi-objective Optimisation
2	Single Objective Linear Programming
3	Single Purpose and Multi Purpose Programming
4	Multi-objective Optimisation Problem
5	Dominance and Pareto Optimality
6	Classical Methods for MOO solution
7	Evolutionary Methods for MOO solution
8	Midterm exam
9	Decision Support and Preference Priority Modelling
10	MCDM Methods: Scoring Methods
11	CRCV Methods: Scoring Methods
12	MCDM Methods: Superiority Methods
13	MCDM Methods: Superiority Methods
14	Utility Theory

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MUNZUR UNIVERSITY
COURSE DESCRIPTION FORM

Course Title: MY5018-PROJECT MANAGEMENT				**Division / Department**: INSTITUTE OF HIGHER EDUCATION/ MASTER PROGRAM IN ENGINEERING MANAGEMENT			
Semester	**Theoretical Hours**	**Application Hours**	**Total Hours**	**Credit**	**ECTS**	**Language of Instruction**	**Type: Compulsory / Elective**
AUTUMN / SPRING	3	0	3	3	7.5	Turkish	Elective

Prerequisites		
Instructor		**Mail :** **Web :**
Course Assistant		**Mail :** **Web :**
Groups Classes		
Aim of The Course	To be able to understand the changes and developments in management approach, To be able to develop management approaches suitable for today's conditions for companies.	
Course Objectives		
Learning Outcomes and Competencies of the Course	• Students learn science of management. • Student learn the characteristics of different forms of management • Students can determine which management style will be successful under which conditions. • Students can establish organisational structure suitable for the characteristics of the company.	
Basic and Supplementary Sources	• Lecture Notes • İşletmelerde Yönetim ve Organizasyon, Prof.Dr.İsmail Efil, ALFA Yayınları • Management Tasks, Responsibilities, Practices; Peter F.Drucker	
Course Method	Face to Face	

T.C.
MUNZUR UNIVERSITY
COURSE DESCRIPTION FORM

Evaluation Criteria		**Mark as (X) if any**	**Percentage (%) Contribution to Overall Average**
	1. Midterm Exam	X	**50**
	2. Midterm Exam		
	3. Midterm Exam		
	4. Midterm Exam		
	Oral Examination		
	Practice Exam (Laboratory, Project etc.)		
	Final Exam	X	**50**

Semester Course Plan

Week	**Topics**
1	Project definitions
2	Project types
3	General information about project management
4	Project management methods
5	CPM Method
6	Investigation of PERT and MPM Methods
7	Identification of Resources Required for the Project
8	MIDTERM EXAM
9	Network Analysis
10	Coordination Function of Management, Directing Function and Control Function of Management
11	Cash Flow-Production Relationship in Project Management
12	Project Management Performance Analysis
13	Project Applications
14	Case Studies

T.C.
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COURSE DESCRIPTION FORM

Course Title: MY5019-PRODUCTION AND PROCESS MANAGEMENT				**Division / Department**: INSTITUTE OF HIGHER EDUCATION/ MASTER PROGRAM IN ENGINEERING MANAGEMENT			
Semester	**Theoretical Hours**	**Application Hours**	**Total Hours**	**Credit**	**ECTS**	**Language of Instruction**	**Type: Compulsory / Elective**
AUTUMN / SPRING	3	0	3	3	7.5	Turkish	Elective

Prerequisites		
Instructor		**Mail :** **Web :**
Course Assistant		**Mail :** **Web :**
Groups Classes		
Aim of The Course	To teach conceptually the issues related to the production function, to examine all the activities of the product before, during and after production by exemplifying the applications related to these issues	
Course Objectives		
Learning Outcomes and Competencies of the Course	• Student knows the basic concepts of production and operations management. • Student can exemplify current applications. • Student knows the relationship between production management and other business units. • Student knows the importance of production management in business world and business management.	
Basic and Supplementary Sources	• "Production and Process Management" lecture notes • Üretim Yönetimi, Bülent Kobu, Beta yayıncılık, Genişletilmiş Güncellenmiş 15. baskı, 2010, İstanbul	
Course Method	Face to Face	

T.C.
MUNZUR UNIVERSITY
COURSE DESCRIPTION FORM

Evaluation Criteria		**Mark as (X) if any**	**Percentage (%) Contribution to Overall Average**
	1. Midterm Exam	X	**50**
	2. Midterm Exam		
	3. Midterm Exam		
	4. Midterm Exam		
	Oral Examination		
	Practice Exam (Laboratory, Project etc.)		
	Final Exam	X	**50**

Semester Course Plan

Week	**Topics**
1	Process technology
2	Flexible manufacturing systems
3	Information processing technology
4	Process strategies
5	Product and service design
6	Design development
7	Prototype construction and final design
8	Mid-Year Examination
9	Selection of goods and services
10	Product identification
11	Quality policy and TQM
12	The role of control in production
13	Presentation work
14	Presentation work

T.C.
MUNZUR UNIVERSITY
COURSE DESCRIPTION FORM

Course Title: MY5020-MANAGEMENT INFORMATION SYSTEMS				**Division / Department**: INSTITUTE OF HIGHER EDUCATION/ MASTER PROGRAM IN ENGINEERING MANAGEMENT			
Semester	**Theoretical Hours**	**Application Hours**	**Total Hours**	**Credit**	**ECTS**	**Language of Instruction**	**Type: Compulsory / Elective**
AUTUMN / SPRING	3	0	3	3	7.5	Turkish	Elective
Prerequisites							
Instructor				**Mail :** **Web :**			
Course Assistant				**Mail :** **Web :**			
Groups Classes							
Aim of The Course	The main objective of this course is to introduce the use of Management Information Systems in Engineering and to explain the role of information systems in many organisational functions. This course will provide a managerial perspective on the use, design and evaluation of information systems.						
Course Objectives							
Learning Outcomes and Competencies of the Course	• Students will be able to use information systems concepts in the organisation operations and operation of engineering applications. • Students will be able to identify the main components of computer systems such as hardware, software, operating system and operating environment. • Students will be able to evaluate, select and use computer-based information systems from a business perspective. • Students will be able to design and develop management information system applications such as spreadsheet creation, database creation and web service development. • Student will be able to use large-scale computer applications to assist in management and operations applications. • Students will be able to accomplish all objectives individually or as a team.						
Basic and Supplementary Sources	• Laudon, K. C. ve Laudon, J.P., (2006), Management Information Systems Managing The Digital Firm, Prentice Hall, New Jersey. ISBN 0-13-157984-3. • Gökçen H. (2002), Yönetim Bilgi Sistemleri Analiz ve Tasarım Perspektifi, Epi Yayıncılık, Ankara. ISBN 975-97083-8-8.						
Course Method	Face to Face						

T.C.
MUNZUR UNIVERSITY
COURSE DESCRIPTION FORM

Evaluation Criteria		**Mark as (X) if any**	**Percentage (%) Contribution to Overall Average**
	1. Midterm Exam	X	**50**
	2. Midterm Exam		
	3. Midterm Exam		
	4. Midterm Exam		
	Oral Examination		
	Practice Exam (Laboratory, Project etc.)		
	Final Exam	X	**50**

Semester Course Plan

Week	Topics
1	Information System and Organisation in Engineering
2	User role in system development processes
3	Models for prompt presentation: Mathematical, graphical and hierarchical models (organisation chart, tree structures)
4	Information Flow - Process Flow - Methods and Heuristics - Information Architecture
5	Decision Support Systems
6	Decision Support Systems
7	Business Intelligence
8	Midterm Exam
9	Information Support Systems
10	Information Support Systems
11	MRP, MRP II, ERP, CRM
12	System and Choice - Cost Benefit - Centralised - Decentralised distribution mechanisms
13	Information Systems Development and Maintenance, System Analysis and Design - System development - product cycle - limitations - end user regulation
14	End User Development - End user management - Outsourcing - Comparison of different methodologies

T.C.
MUNZUR UNIVERSITY
COURSE DESCRIPTION FORM

Course Title: MY5021-STRATEGIC PLANNING AND MANAGEMENT				**Division / Department**: INSTITUTE OF HIGHER EDUCATION/ MASTER PROGRAM IN ENGINEERING MANAGEMENT			
Semester	**Theoretical Hours**	**Application Hours**	**Total Hours**	**Credit**	**ECTS**	**Language of Instruction**	**Type: Compulsory / Elective**
AUTUMN / SPRING	3	0	3	3	7.5	Turkish	Elective
Prerequisites							
Instructor				**Mail :** **Web :**			
Course Assistant				**Mail :** **Web :**			
Groups Classes							
Aim of The Course	The main objective of this course is to teach students how to gain competitive advantage and make it sustainable by explaining in detail the 3 phases of strategic planning: Analysis, Formulation and Implementation.						
Course Objectives							
Learning Outcomes and Competencies of the Course	• The concept of sustainable competitive advantage, the necessity of strategy for this advantage • Activity of the strategic management process • Analysing internal and external factors, learning VRIO, PESTEL, SWOT analyses • Learning how to formulate business and company strategies • Giving information about global strategies and organisational design						
Basic and Supplementary Sources	• “Strategic Management Concepts” Frank T. Rothaermel, McGraw Hill, 2013. • “Strategic Management: Concepts: Competitiveness and Globalization”, Michael A. Hitt and R. Duane Ireland, Cencage Learning, 2014 • Articles.						
Course Method	Face to Face						

T.C.
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COURSE DESCRIPTION FORM

		Mark as (X) if any	Percentage (%) Contribution to Overall Average
Evaluation Criteria	**1. Midterm Exam**	X	**50**
	2. Midterm Exam		
	3. Midterm Exam		
	4. Midterm Exam		
	Oral Examination		
	Practice Exam (Laboratory, Project etc.)		
	Final Exam	X	**50**

Semester Course Plan

Week	Topics
1	Course Description
2	What is strategy and why is it important?
3	Strategic Management Process
4	External environment analysis; Industry structure, Competitive forces and Strategic Groups
5	Internal analysis Resources, Capacities and Activities
6	Competitive Advantage and Firm Performance
7	MIDTERM EXAM
8	Business Strategy: Differentiation, Cost Leadership and Integration
9	Business Strategy: Innovation and Strategic Entrepreneurship
10	Firm Strategy: Vertical Integration and Diversification
11	Firm Strategy: Mergers, Partnerships and Networks
12	Global Strategy: Compete worldwide
13	Organisational Design: Structure, Culture and Control
14	Company management, business ethics and strategic leadership

T.C.
MUNZUR UNIVERSITY
COURSE DESCRIPTION FORM

Course Title: MY5022-SEMINAR				**Division / Department**: INSTITUTE OF HIGHER EDUCATION/ MASTER PROGRAM IN ENGINEERING MANAGEMENT			
Semester	**Theoretical Hours**	**Application Hours**	**Total Hours**	**Credit**	**ECTS**	**Language of Instruction**	**Type: Compulsory / Elective**
AUTUMN / SPRING	3	0	3	3	7.5	Turkish	Elective

Prerequisites		
Instructor		**Mail :** **Web :**
Course Assistant		**Mail :** **Web :**
Groups Classes		
Aim of The Course	i) To provide students with the ability to conduct scientific research, scanning sources, research method and theoretical framework determination and application infrastructure, ii) To enable students to synthesise information and present it in a report, to gain confidence in speaking in front of the public and to give presentation technique, iii) To reinforce the theoretical and practical knowledge of the students on the subjects related to their thesis studies and to prepare the student for the thesis study.	
Course Objectives		
Learning Outcomes and Competencies of the Course	• Uses information tools effectively • Knows the principles of research ethics and labour theft. • Presents the results in front of the community • Organises the results in a scientific report • Synthesises, analyses and interprets the information collected. • Makes a detailed literature research on a given subject	
Basic and Supplementary Sources	• Munzur University Institute of Higher Education Seminar Writing Guide • Sınıf Yönetimi & Ders, Konferans, Panel ve Seminer Etkinliklerinde Başarının Yolları, Alfa Yayınları, İrfan Erdoğan, Yayın Yılı: 2011; 158sayfa • Bilimsel Araştırma Yöntemleri, Seçkin Yayıncılık, Ankara, Karasar, Niyazi, 2009, • Hernon, P. ve Schwartz, C. (2007). What is a problem statement? (Editoryal). Library & Information Science Research, 29, 307–309. • Berelson, B. (1952). Content analysis in communications research. Glencoe, IL: The Free Press.	

T.C.
MUNZUR UNIVERSITY
COURSE DESCRIPTION FORM

	Creswell, J.W. (2009). Research design: Quantitative, qualitative, and mixed methods approaches. 3rd ed. Thousand Oaks, CA: Sage.
Course Method	Face to Face

		Mark as (X) if any	**Percentage (%) Contribution to Overall Average**
Evaluation Criteria	**1. Midterm Exam**	X	**50**
	2. Midterm Exam		
	3. Midterm Exam		
	4. Midterm Exam		
	Oral Examination		
	Practice Exam (Laboratory, Project etc.)		
	Final Exam	X	**50**

Semester Course Plan

Week	**Topics**
1	Determining the sub-topics covered by the seminar work
2	Source screening controls
3	Source screening controls
4	Source screening controls
5	Designing the system
6	Designing the system
7	Making necessary analyses
8	Making necessary calculations or analyses
9	Making necessary calculations or analyses
10	Evaluating the results
11	Evaluating the results
12	Writing the seminar report
13	Preparation of seminar presentation
14	Review of the seminar report and presentation

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COURSE DESCRIPTION FORM

Course Title: MY5023 - MASTER THESIS				**Division / Department**: INSTITUTE OF HIGHER EDUCATION/ MASTER PROGRAM IN ENGINEERING MANAGEMENT			
Semester	**Theoretical Hours**	**Application Hours**	**Total Hours**	**Credit**	**ECTS**	**Language of Instruction**	**Type: Compulsory / Elective**
AUTUMN / SPRING	3	0	3	3	7.5	Turkish	Elective
Prerequisites							
Instructor					**Mail :** **Web :**		
Course Assistant					**Mail :** **Web :**		
Groups Classes							
Aim of The Course	It is a master's thesis prepared under the supervision of various faculty members on topics related to engineering management.						
Course Objectives							
Learning Outcomes and Competencies of the Course							
Basic and Supplementary Sources	• The student gains research, planning, implementation, problem solving, evaluation and interpretation skills. • Students will be able to analyse and investigate a problem in detail. • Student can design a solution to an existing problem.						
Course Method	Face to Face						

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COURSE DESCRIPTION FORM

Evaluation Criteria		**Mark as (X) if any**	**Percentage (%) Contribution to Overall Average**
	1. Midterm Exam	X	**50**
	2. Midterm Exam		
	3. Midterm Exam		
	4. Midterm Exam		
	Oral Examination		
	Practice Exam (Laboratory, Project etc.)		
	Final Exam	X	**50**

Semester Course Plan

Week	**Topics**
1	Working on the research topic
2	Working on the research topic
3	Working on the research topic
4	Working on the research topic
5	Working on the research topic
6	Working on the research topic
7	Working on the research topic
8	Working on the research topic
9	Working on the research topic
10	Working on the research topic
11	Working on the research topic
12	Working on the research topic
13	Working on the research topic
14	Working on the research topic

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COURSE DESCRIPTION FORM

Course Title: MY5024- Marketing Management				**Division / Department**: INSTITUTE OF HIGHER EDUCATION/ MASTER PROGRAM IN ENGINEERING MANAGEMENT			
Semester	**Theoretical Hours**	**Application Hours**	**Total Hours**	**Credit**	**ECTS**	**Language of Instruction**	**Type: Compulsory / Elective**
AUTUMN / SPRING	3	0	3	3	7.5	Turkish	Elective

Prerequisites		
Instructor		**Mail :** **Web :**
Course Assistant		**Mail :** **Web :**
Groups Classes		
Aim of The Course	In this course, it is aimed to teach the basic approaches, concepts and techniques of marketing management and to enable students to understand how a business prepares a marketing plan by following the agenda.	
Course Objectives	• To be able to recognise marketing problems that students may encounter in real business life • To be able to design a marketing plan suitable for the business • To be able to develop solutions for marketing problems	
Learning Outcomes and Competencies of the Course	• Student; Evaluates current marketing approaches and practices. • Interpret the social consequences of current marketing practices. • Directs the market and consumer orientated activities of businesses. • Interpret the interaction between consumer, market, marketing and communication. • Evaluates the purchasing and consumption behaviours of different consumer groups. • Evaluates the contribution of new communication technologies in marketing approaches and practices.	
Basic and Supplementary Sources	• Kotler ve Armstrong, Principles of Marketing, Pearson Global Edition, New jersey, 2010 • Kotler and Keller, Marketing Management, Pearson International Edition, New Jersey 2009 • Mucuk, İsmet, Pazarlama İlkeleri, Türkmen Kitabevi, İstanbul 2009 • Karafakioğlu, Mehmet, Pazarlama İlkeleri, Literatür yayınları, İstanbul 2009	
Course Method	Face to Face	

T.C.
MUNZUR UNIVERSITY
COURSE DESCRIPTION FORM

Evaluation Criteria		**Mark as (X) if any**	**Percentage (%) Contribution to Overall Average**
	1. Midterm Exam	X	**50**
	2. Midterm Exam		
	3. Midterm Exam		
	4. Midterm Exam		
	Oral Examination		
	Practice Exam (Laboratory, Project etc.)		
	Final Exam	X	**50**

Semester Course Plan

Week	Topics
1	Introduction to marketing, basic marketing concepts, developments in marketing concepts
2	Current marketing approaches
3	Marketing planning and marketing process
4	Analysing and evaluating market opportunities
5	Developing and implementing marketing strategies
6	Marketing mix and criticisms
7	Market segmentation and target market selection
8	Creation of product programmes and Product Life Cycle
9	Pricing decisions and management
10	Distribution decisions and management
11	Product and brand decisions and management
12	Promotion mix decisions and management
13	Marketing communication, integrated marketing communication
14	Service marketing and marketing of professional services

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COURSE DESCRIPTION FORM

Course Title: MY5025 - Value Engineering and Change Management				**Division / Department**: INSTITUTE OF HIGHER EDUCATION/ MASTER PROGRAM IN ENGINEERING MANAGEMENT			
Semester	**Theoretical Hours**	**Application Hours**	**Total Hours**	**Credit**	**ECTS**	**Language of Instruction**	**Type: Compulsory / Elective**
AUTUMN / SPRING	3	0	3	3	7.5	Turkish	Elective

Prerequisites		
Instructor		**Mail :** **Web :**
Course Assistant		**Mail :** **Web :**
Groups Classes		
Aim of The Course	In this course, it is aimed to teach the concepts of innovation with current design and production activities, to reduce the cost or increase the performance of a product or a service by reviewing it without ignoring the needs of customers.	
Course Objectives	• Develop and analyse the value of a product or service • Workplace, product and service design with innovative thinking • To provide students with systematic team approaches to function-targeted systematic team approaches applied professionally during the system or service	
Learning Outcomes and Competencies of the Course	• Students will gain the ability to manage systems in the face of constantly changing conditions. • Students will be able to develop and analyse the value of a product, organise a workplace, solve problems while meeting performance or quality requirements, etc. • Students will be able to investigate ways to solve problems. • Students will have the ability to follow global change with an innovative perspective.	
Basic and Supplementary Sources	• Mudge, A.E., (1971). Value Engineering Mc-Grav Hill Book Company, New York, NY. • Shilito, M.L. and D.J. De Marle (1992). Value, Its Measurement Design and Management, John Wiley & Sons Inc. New York, NY, USA. • Değişim Yönetimi /Azmi Yalçın	
Course Method	Face to Face	

T.C.
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COURSE DESCRIPTION FORM

		Mark as (X) if any	Percentage (%) Contribution to Overall Average
Evaluation Criteria	**1. Midterm Exam**	X	**50**
	2. Midterm Exam		
	3. Midterm Exam		
	4. Midterm Exam		
	Oral Examination		
	Practice Exam (Laboratory, Project etc.)		
	Final Exam	X	**50**

Semester Course Plan

Week	Topics
1	Definition of Value and Value Engineering
2	Philosophy of value engineering
3	Stages of value engineering
4	Tools used by value engineering, Training required for value engineers
5	Problems that may be encountered in value engineering applications, differences of value engineering from traditional methods
6	Definition and characteristics of change
7	Changes in the world and in Turkey
8	Definition and characteristics of change management
9	Development in organisational structure
10	Reasons for the need for change
11	Decision to change
12	Human factor in change management
13	Investigation of the problems to be encountered during the change and the ways to be followed to solve them
14	Risk management in change

T.C.
MUNZUR UNIVERSITY
COURSE DESCRIPTION FORM

Course Title: MY5026 - Cost Management				**Division / Department**: INSTITUTE OF HIGHER EDUCATION/ MASTER PROGRAM IN ENGINEERING MANAGEMENT			
Semester	**Theoretical Hours**	**Application Hours**	**Total Hours**	**Credit**	**ECTS**	**Language of Instruction**	**Type: Compulsory / Elective**
AUTUMN / SPRING	3	0	3	3	7.5	Turkish	Elective

Prerequisites		
Instructor		**Mail :** **Web :**
Course Assistant		**Mail :** **Web :**
Groups Classes		
Aim of The Course	In this course, it is aimed to give the knowledge to analyse and evaluate the costs of the activities carried out and the products produced in the enterprise and to teach the methods used in cost management.	
Course Objectives	• Understanding how cost information, which is an important information for business managers to fulfil their planning, control and decision-making functions, is determined • Recognising the cost components and understanding the decisions in which cost information will be used • To be able to calculate product cost using cost management systems • To be able to use cost volume profit analyses in management decisions • To be able to analyse and compare cost management systems for manufacturing companies • Ability to use cost information to make non-routine business (management) decisions.	
Learning Outcomes and Competencies of the Course	• To be able to count the basic concepts related to cost analysis, to classify costs • To be able to understand the distribution of costs • To be able to comprehend inventory valuation methods • To be able to comprehend cost systems	
Basic and Supplementary Sources	• Reşat KARCIOĞLU, Stratejik Maliyet Yönetimi Maliyet ve Yönetim Muhasebesinde Yeni Yaklaşımlar, Aktif Yayınevi, Erzurum, 2000. • Alparslan PEKER, Modern Yönetim Muhasebesi, Filiz Kitabevi, 1983. • Kamil BÜYÜKMİRZA, Maliyet ve Yönetim Muhasebesi, 12. Baskı, Gazi Kitabevi, Ankara, 2008.	
Course Method	Face to Face	

T.C.
MUNZUR UNIVERSITY
COURSE DESCRIPTION FORM

Evaluation Criteria		**Mark as (X) if any**	**Percentage (%) Contribution to Overall Average**
	1. Midterm Exam	X	**50**
	2. Midterm Exam		
	3. Midterm Exam		
	4. Midterm Exam		
	Oral Examination		
	Practice Exam (Laboratory, Project etc.)		
	Final Exam	X	**50**

Semester Course Plan

Week	Topics
1	Cost Accounting, Management Accounting and Cost Management Concepts
2	Introduction to Cost Analyses: Cost Concepts
3	Introduction to Cost Analyses: Classification of Costs
4	Introduction to Cost Analyses: Allocation of Costs
5	Order cost systems
6	Phase costing systems
7	Inventory Valuation Methods
8	Cost Management Systems
9	Traditional Costing
10	Activity Based Costing
11	Product Life Cycle Costing
12	Target Costing
13	Just-in-Time Costing
14	Kaizen Costing

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COURSE DESCRIPTION FORM

Course Title: MY5027 - Performance and Efficiency Analysis				**Division / Department**: INSTITUTE OF HIGHER EDUCATION/ MASTER PROGRAM IN ENGINEERING MANAGEMENT			
Semester	**Theoretical Hours**	**Application Hours**	**Total Hours**	**Credit**	**ECTS**	**Language of Instruction**	**Type: Compulsory / Elective**
AUTUMN / SPRING	3	0	3	3	7.5	Turkish	Elective

Prerequisites		
Instructor		**Mail :** **Web :**
Course Assistant		**Mail :** **Web :**
Groups Classes		
Aim of The Course	In this course, it is aimed to introduce the concept of performance and productivity, to create productivity awareness, to teach performance and productivity measurement, analysis, evaluation, development and systematics.	
Course Objectives	• Examination of business efficiency with different dimensions and measurement methods • Transfer of performance enhancing techniques in the triangle of technology, system and human • Discussion of the necessary conditions for productivity culture	
Learning Outcomes and Competencies of the Course	• List the performance and productivity measurement methods used in businesses. • Explain the differences between the performance and productivity measurement methods used. • They can measure the performance and efficiency of an organisation whose information is theoretically put forward. • Determine the suitability of the determined performance and efficiency measurement method to the business objectives. • They can reorganise the business organisation according to the results obtained from the applied method.	
Basic and Supplementary Sources	• AKAL, Zühal; İşletmelerde Performans Ölçüm ve Denetimi, Ankara, MPM Yay., No, 473, 2002. • PROKOPENKO, Joseph; Verimlilik Yönetimi, Uygulamalı El Kitabı, Ankara, MPM Yay., 1987.	
Course Method	Face to Face	

T.C.
MUNZUR UNIVERSITY
COURSE DESCRIPTION FORM

		Mark as (X) if any	Percentage (%) Contribution to Overall Average
Evaluation Criteria	**1. Midterm Exam**	X	**50**
	2. Midterm Exam		
	3. Midterm Exam		
	4. Midterm Exam		
	Oral Examination		
	Practice Exam (Laboratory, Project etc.)		
	Final Exam	X	**50**

Semester Course Plan

Week	Topics
1	Performance in business, performance concept
2	Objectives and benefits of the performance management system
3	Corporate Performance Indicators, Performance Scorecard and Applications
4	Performance models and measures of performance - Identification and elimination of performance problems
5	Analysing job and individual performance - Job Analyses - Job Evaluation - Performance Evaluation
6	Other methods and applications in performance evaluation - Ranking - Pairwise comparison - Scoring
7	Efficiency, efficiency, effectiveness
8	Productivity
9	Factors affecting productivity
10	Efficiency enhancement methods
11	Measurement of productivity in enterprises, - Periodical measurement and comparison, - Inter-firm comparison
12	Productivity of today's knowledge people and the impact of technology - Development of productivity culture
13	Total Productivity Model
14	Productivity Organisations and Activities: - Domestic efficiency organisations - International efficiency organisations National Efficiency Movement: - Examples of successful practices

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COURSE DESCRIPTION FORM

Course Title: MY5028 - Managerial Economics				**Division / Department**: INSTITUTE OF HIGHER EDUCATION/ MASTER PROGRAM IN ENGINEERING MANAGEMENT			
Semester	**Theoretical Hours**	**Application Hours**	**Total Hours**	**Credit**	**ECTS**	**Language of Instruction**	**Type: Compulsory / Elective**
AUTUMN / SPRING	3	0	3	3	7.5	Turkish	Elective

Prerequisites		
Instructor		**Mail :** **Web :**
Course Assistant		**Mail :** **Web :**
Groups Classes		
Aim of The Course	In this course, it is aimed to teach the concepts of economics (cost, profit, interest, money, investment, growth) which is one of the basic components of Industrial Engineering.	
Course Objectives	• To have a good command of economic terms and concepts • To be able to create funds suitable for the business • To be able to interpret economic developments and be foresighted	
Learning Outcomes and Competencies of the Course	• The student will be able to define the basic concepts of general economics. • Will be able to express supply and demand functions and the factors affecting them. • Will be able to explain cost analysis, market equilibrium, firm equilibrium in microeconomics. • Will be able to determine macroeconomic variables (money, government expenditures, foreign trade, growth). • Will be able to comment on investment instruments such as bonds, stocks and stock market. • Will be able to explain foreign trade (export, import) and list the factors affecting them.	
Basic and Supplementary Sources	• Prof. Dr. İlker PARASIZ- Yöneticiler için İktisat • Prof. Dr. Besim ÜSTÜNEL- Temel Ekonomi	
Course Method	Face to Face	

T.C.
MUNZUR UNIVERSITY
COURSE DESCRIPTION FORM

Evaluation Criteria		**Mark as (X) if any**	**Percentage (%) Contribution to Overall Average**
	1. Midterm Exam	X	**50**
	2. Midterm Exam		
	3. Midterm Exam		
	4. Midterm Exam		
	Oral Examination		
	Practice Exam (Laboratory, Project etc.)		
	Final Exam	X	**50**

Semester Course Plan

Week	Topics
1	Basic Economic concepts
2	Optimum consumer behaviour
3	Demand supply functions
4	Market equilibrium
5	Market Types
6	Factor Prices Analysis
7	Gross national product, national income concepts and methods of calculating them
8	Introduction to Monetary Theory
9	Conjecture and factors determining national income
10	Consumption and Investment expenditures
11	Government expenditure and taxes
12	Foreign Trade
13	Economic Growth
14	Employment

T.C.
MUNZUR UNIVERSITY
COURSE DESCRIPTION FORM

Course Title: MY5029 - Human Resources Management				**Division / Department**: INSTITUTE OF HIGHER EDUCATION/ MASTER PROGRAM IN ENGINEERING MANAGEMENT			
Semester	**Theoretical Hours**	**Application Hours**	**Total Hours**	**Credit**	**ECTS**	**Language of Instruction**	**Type: Compulsory / Elective**
AUTUMN / SPRING	3	0	3	3	7.5	Turkish	Elective

Prerequisites		
Instructor		**Mail :** **Web :**
Course Assistant		**Mail :** **Web :**
Groups Classes		
Aim of The Course	It is aimed to provide the understanding and interpretation of the policies, strategies and programmes necessary for planning, obtaining, retaining and increasing the performance of human resources that will achieve the objectives of the organisation.	
Course Objectives	• Effective use of human resources in business and planning • Evaluation of motivation and performance of employees • Gaining the skills of finding, selecting and placing employees	
Learning Outcomes and Competencies of the Course	• Will be able to explain the basic concepts of human resource management. • Will be able to explain the phenomenon of planning for organisations, jobs and people. • Will be able to express the principles of obtaining human resources. • Will be able to express the functions necessary for the retention of human resources. • Students will be able to prepare a report containing research results on a theoretical or applied subject related to Human Resources Management.	
Basic and Supplementary Sources	• UYARGİL, C., Adal, Z., vd, (2010),İnsan Kaynakları Yönetimi,İstanbul: Beta Basım (5. Baskı) • De Cenzo D., Robbins S. (1996).HUMAN RESOURCE MANAGEMENT, Fifth Edition, America: John Wiley&Sons. Inc • Ramazan GEYLAN(2004). Personel Yönetimi.Eskişehir:Birlik Ofset	
Course Method	Face to Face	

T.C.
MUNZUR UNIVERSITY
COURSE DESCRIPTION FORM

Evaluation Criteria		**Mark as (X) if any**	**Percentage (%) Contribution to Overall Average**
	1. Midterm Exam	X	**50**
	2. Midterm Exam		
	3. Midterm Exam		
	4. Midterm Exam		
	Oral Examination		
	Practice Exam (Laboratory, Project etc.)		
	Final Exam	X	**50**

Semester Course Plan

Week	**Topics**
1	Definition, Importance, Scope, Functions and Comparison of Human Resources Management with Personnel Management
2	Development of HRM Approach
3	Job Analysis, Definitions and Requirements
4	Human Resources Planning
5	Human Resources Recruitment, Selection, Placement and Training and Development
6	Career Management
7	Performance Appraisal
8	Wage Management
9	Job Evaluation
10	Human Resources and Discipline
11	The role of Motivation in Human Resources Management
12	The Role of Communication in Human Resources Management / The Role of Leadership in Human Resources Management
13	Legal Regulations Related to HRM
14	International Human Resources Management