



OSTİM TECHNICAL UNIVERSITY
FACULTY OF ECONOMICS AND ADMINISTRATIVE SCIENCES
DEPARTMENT OF BUSINESS ADMINISTRATION
COURSE SYLLABUS FORM

BUS 302 Production Management							
Course Name	Course Code	Period	Hours	Application	Laboratory	Credit	ECTS
Production Management	BUS 302	6	3	-	-	3	4

Language of Instruction	English
Course Status	Compulsory
Course Level	Bachelor
Learning and Teaching Techniques of the Course	Lecture, Question-Answer, Problem Solving, Teamwork, Report Writing

Course Objective
This course considers the operations from a managerial perspective. We will consider key performance measures of operations (productivity, quality and response time) as well as important concepts for improving the performance of operations along these dimensions. At the end of the course students will have a fair understanding of the role Production/Operations Management plays in business processes. Emphasis is given both to familiarization of various production processes and service systems, and to quantitative analysis of problems arising in the management of operations.

Learning Outcomes
On successful completion of this course, students should be able to: <ul style="list-style-type: none">• To gain an understanding and appreciation of the principles and applications relevant to the planning, design, and operations of manufacturing/service firms.• To develop skills necessary to effectively analyze and synthesize the many inter-relationships inherent in complex socio-economic productive systems.• To gain some ability to recognize situations in a production system environment that suggests the use of certain quantitative methods to assist in decision making on operations management and strategy.• To understand how Enterprise Resource Planning and MRP• To increase the knowledge, and broaden the perspective of the world in which you will contribute your talents and leadership in business operations.• To understand the managerial responsibility for Operations, even when production is outsourced, or performed in regions far from corporate headquarters.

Course Outline		
<p>Production management is the management of an organization's production systems, which converts inputs into the product and services. A production system takes inputs which include material, personnel, machines, building, technology, cash money, information and other resources whereas the outputs include the product and services. Thus, production management is the study (practices) of planning, designing, and production systems and subsystems to achieve the goals of an organization. The course Production Management will consist of Strategic Planning in Production Management, Planning Function in Production Management, Operational Aspects of Production Management, and Control & Measurement of Production Management.</p>		
Weekly Topics and Related Preparation Studies		
Weeks	Topics	Preparation Studies
1	Introduction to Operations Management	<ul style="list-style-type: none"> • CH1 Scope of Operations Management. • Why Study Operations Management? • Differentiating Features of Operations Systems • Operations Managers and Decision Making
2	Competitiveness, Strategy, and Productivity	<ul style="list-style-type: none"> • CH2 Time-Based Information • Economic Vitality
3	Forecasting	<ul style="list-style-type: none"> • CH 3 Forecasts Based on Judgment and Opinion • Forecasts Based on Time Series Data • Associative Forecasting Techniques
4	Product and Service Design	<ul style="list-style-type: none"> • CH 4 Sources of Ideas for New or Redesigned Products and Services • Legal, Ethical, and Environmental Issues • Designing for Manufacturing • CH 5 Decision Theory
5	Strategic Capacity Planning for Products and Services	<ul style="list-style-type: none"> • CH 6 Determinants of Effective Capacity • Planning Service Capacity
6	Process Selection and Facility Layout	<ul style="list-style-type: none"> • CH 6 Process Selection • Layout
7	Work Design and Measurement	<ul style="list-style-type: none"> • CH 7 Operations Strategy • Work Measurement
8	MIDTERM EXAM	
9	Location Planning and Analysis	<ul style="list-style-type: none"> • CH 8 General Procedure for Making Location Decisions • Global Strategy • The Transportation Model
10	Management of Quality	<ul style="list-style-type: none"> • CH 9 The Evolution of Quality Management • CH 10 Quality Control.
11	Inventory Management	<ul style="list-style-type: none"> • CH 12 Requirements for Effective Inventory Management • How Much to Order: Economic Order Quantity Models • When to Reorder with EOQ Ordering
12	MRP and ERP	<ul style="list-style-type: none"> • CH 13 MRP Inputs • MRP Processing • MRP Outputs

		•ERP
13	JIT and Lean Operations	•CH 14 JIT Goals •JIT Services
14	Supply Chain Management	•CH 15 Supply Chain Optimization •Operations Strategy
15	Management of Waiting Lines	•CH 18 Waiting Lines •Seasures of System Performance •Simulation •Steps in the Simulation Process •Monte Carlo Simulation
16	FINAL EXAM	

Textbook(s)/References/Materials:	
TEXTBOOK: Operations Management by William J. Stevenson. 14th Edition, Irwin / McGraw-Hill, 2021, ISBN10: 126023889X ISBN13: 9781260238891	

Assessment		
Studies	Number	Contribution margin (%)
Attendance		
Lab		
Classroom and application performance grade	1	10
Field Study		
Course-Specific Internship (if any)		
Quizzes / Studio / Critical		
Homework	10	10
Presentation		
Projects		
Report		
Seminar		
Midterm Exam/Midterm Jury	1	30
General Exam / Final Jury	1	50
Total		100
Success Grade Contribution of Semester Studies		50
Success Grade Contribution of End of Term		50
Total		100

ECTS / Workload Table			
Activities	Number	Duration (Hours)	Total Workload
Course hours (Including the exam week: 16 x total course hours)	16	2	32
Laboratory			
Application			
Course-Specific Internship			
Field Study			
Study Time Out of Class	16	2	32
Presentation / Seminar Preparation			
Projects	1	4	4
Reports			
Homework	10	2	20
Quizzes / Studio Review			
Preparation Time for Midterm Exam / Midterm Jury	1	4	4
Preparation Period for the Final Exam / General Jury	1	4	4
Total Workload/25 hours	(96/25 = 3.84)		
ECTS	4		

Relationship Between Course Learning Outcomes and Program Competencies

No	Learning Outcomes	Contribution Level				
		1	2	3	4	5
LO1	To gain an understanding and appreciation of the principles and applications relevant to the planning, design, and operations of manufacturing/service firms.					X
LO2	To develop skills necessary to effectively analyze and synthesize the many inter-relationships inherent in complex socio-economic productive systems.					X
LO3	To gain some ability to recognize situations in a production system environment that suggests the use of certain quantitative methods to assist in decision making on operations management and strategy.					X
LO4	To understand how Enterprise Resource Planning and MRP					X
LO5	To increase the knowledge, and broaden the perspective of the world in which you will contribute your talents and leadership in business operations.					X
LO6	To understand the managerial responsibility for Operations, even when production is outsourced, or performed in regions far from corporate headquarters.					X

Relationship Between Course Learning Outcomes and Program Competencies)								
No	Program Competencies	Learning Outcomes						TOTAL EFFECT (1-5)
		LO1	LO2	LO3	LO4	LO5	LO6	
1	Know the basic concepts and practical information about the science of business administration and core business activities	x	x	x		x	x	5
2	Evaluate global and local issues by using ideas and concepts from the field of business administration; examine and analyze management related information and applications in line with scientific principles by using appropriate qualitative and quantitative methods; interpret and synthesize the data and find solutions to business related problems	x	x	x	x			4
3	Take responsibility as a member of an interdisciplinary team to solve unpredictable and complex business problems; be able to work effectively in teams of various functions and disciplines; effectively carry out project activities				x	x	x	3
4	Carry out independent studies in the field by utilizing obtained knowledge and skills			x	x	x	x	4
5	Set goals and objectives for the institution he/she works at; detect and solve basic problems; analyze the internal and external environment of the business; evaluate the developments, support continuous improvement and provide innovative strategies	x	x			x	x	4

6	Acquire the skill to manage activities aimed at the improvement of the employees as a leader, make decisions and implement them					x	x	2
7	Acquire the entrepreneurship skill; design and manage a business; promote innovativeness and sustainability	x	x	x	x	x	x	5
8	Maintain life-long learning activities; achieve self-improvement; follow higher level educational programs	x		x				2
9	Inform stakeholders with a sense of social responsibility as an individual with effective communication skills; share his/her emotions, thoughts and solutions to problems verbally and in writing; understand the behaviors and psychology of his/her colleagues	x	x	x		x	x	5
10	Use the information and communication technologies and computer software required by the field		x	x	x	x	x	5
11	Effectively use English to follow, read, write and speak about the universal information in the field of business and management sciences and be able to communicate with colleagues in a foreign language with professional proficiency	x	x	x	x		x	5
12	Act according to the law in all his/her affairs; have a sense of professional and ethical responsibility and code of business conduct and act in line with social values						x	1
13	Be aware of the contemporary business problems as well as the interdisciplinary scope of business administration and analyze these; have the competence to understand the effects of business and management sciences on these problems on a universal, environmental, legal, social and societal level and in terms of health, security and globalization	x		x	x	x	x	5
14	Give research proposals, be able to design research studies, prepare and present research reports				x	x	x	3
15	Manage work time and personal time; fulfil the requirements of his/her duties on time					x	x	2
16	Have the competence to work in non-governmental organizations, private sector and public entities				x	x	x	3
	TOTAL EFFECT	8	7	9	9	12	14	58

Policies and Procedures
Web page: https://www.ostimteknik.edu.tr/business-administration-1240/907
Exams: The exams aim at assessing various dimensions of learning: knowledge of concepts and theories and the ability to apply this knowledge to real-world phenomena, through analyzing the situation, distinguishing problems, and suggesting solutions. The written exams can be of two types, ie. open-ended questions, which can also be in the form of problems or multiple-choice questions. The case could also be carried to the Dean's Office for additional disciplinary action.
Assignments: Quizzes and Homework (Assignments) might be applicable. Scientific Research Ethics Rules are very important while preparing assignments. The students should be careful about citing any material used from outside sources and reference them appropriately.
Missed exams: Any student missing an exam needs to bring an official medical report to be able to take a make-up exam. The medical report must be from a state hospital.
Projects: Applicable.
Attendance: Attendance requirements are announced at the beginning of the term. Students are usually expected to attend at least 70% of the classes during each term.
Objections: If the student observes a material error in his/her grade, he/she has the right to place an objection to the Faculty or the Department. The claim is examined and the student is notified about its outcome.