

COURSE OUTLINE

1. GENERAL

SCHOOL	APPLIED ECONOMIC AND SOCIAL SCIENCES		
ACADEMIC UNIT	AGRIBUSINESS AND SUPPLY CHAIN MANAGEMENT		
LEVEL OF STUDIES	<i>Undergraduate</i>		
COURSE CODE	5901	SEMESTER	9th
COURSE TITLE	PRODUCTION MANAGEMENT		
INDEPENDENT TEACHING ACTIVITIES		WEEKLY TEACHING HOURS	CREDITS
	Lectures	4	5
COURSE TYPE	Special Background		
PREREQUISITE COURSES	NO		
LANGUAGE OF INSTRUCTION and EXAMINATIONS	Greek		
IS THE COURSE OFFERED for ERASMUS STUDENTS?	YES (in English)		
COURSE WEBSITE (URL)	https://oeclass.aua.gr/eclass/		

2. LEARNING OUTCOMES

Learning Outcomes

The aim of the course is:

- To introduce students to the planning, programming, organizing and control of the production process
- To Understand how raw materials with processes are converted into products, with the right combination of appropriate production factors
- To encourage an understanding of the basic principles, methods and practices used to solve the problems of organizing the modern production process
- to educate students on the use of computational/software packages in order to solve these problems quickly and effectively

Upon successful completion of the course, the student will be able to:

- Understands the importance of operating product production and / or service delivery within the business value chain
- It recognizes the need for planning in operations management
- Describe and apply short-, medium- and long-term planning techniques for operations management.
- Understands in depth the concept of quality and efficient management of resources in operations management
- Combines all types of information sources to extract information
- Analyze and evaluate components of specific operating systems and present their findings in writing, individually or through participation and collaboration with peers in small groups
- Apply theoretical knowledge for designing and programming operating systems using IT tools

General Competences

- Working independently
- Teamwork
- Decision-making
- Search, analyze and synthesize data and information, using the necessary technologies
- Project design and management
- Production of free, creative and inductive thinking

3. SYLLABUS

1. Production management principles - production management and business - production management strategy
2. Product design and development of production systems
3. Forecasting methods
4. Capacity Planning & Job Measurement
5. Select installation location
6. Spatial planning
7. Production Planning & Planning
8. Inventory management
9. Project management principles
10. Quality management principles
11. Reliability and maintenance
12. MRP and ERP systems,
13. The simple processes (JIT), Scheduling, Crisis management / emergency response- Case Studies

A combination of teaching and learning methods will be used, aiming at the active participation of the students and the practical application of the thematic units under examination; there will also be lectures using audiovisual media, discussions, and analyses of case studies on real business issues, experiential (group) activities, as well as projections of relevant videos. The students will also undertake an individual or group project. Furthermore, articles, audiovisual lecture materials, web links/addresses, useful information, case studies and exercises for further practice are posted in digital form on the AUA Open e-Class platform.

4. TEACHING and LEARNING METHODS - EVALUATION

DELIVERY	Face -to-face, Distance learning		
USE OF INFORMATION and COMMUNICATIONS TECHNOLOGY	<ul style="list-style-type: none">• Support of the learning process through the University's AUA Open eClass platform (integrated e-Course Management System)• Support of lectures using presentation software• Use of audiovisual material• Use of web applications <p>Communication with students: face to face at office hours, email, eclass platform</p>		
TEACHING METHODS	<table border="1"><tr><td><i>Activity</i></td><td><i>Workload</i></td></tr></table>	<i>Activity</i>	<i>Workload</i>
<i>Activity</i>	<i>Workload</i>		

	Lectures (direct)	65
	<i>Writing paper/ papers</i>	28
	<i>Independent Study</i>	30
	<i>Advisory support</i>	0,5
	<i>Exams</i>	2
	<i>Course Total (Approximately 25 hours of workload per credit unit 125.5)</i>	125,5 h

STUDENT PERFORMANCE EVALUATION

The evaluation process is in the language that the course is taught (Greek or English) and consists of:

i. Compulsory written final examination at the end of the semester (weighting factor **70%** at least) which may includes:

- Multiple choice questionnaires
- Open-ended questions
- Problem solving
- Oral examination

Evaluation criteria: correctness, completeness, clarity

ii. Optional written exam or essay during the semester (weighting factor 30%) which may includes:

- Multiple choice questionnaires
- Open-ended questions
- Problem solving
- Essay/report
- Oral examination

Evaluation criteria: correctness, completeness, clarity

Special learning difficulties:

Students with **special learning difficulties** in writing and reading (as they are certified and characterized by a competent body) are examined based on the procedure provided by the Department.

Specifically-Defined Criteria:

The evaluation criteria are made known during the first lesson and are clearly stated on the course website and the AUA Open e-class platform. The answers to the exam questions are posted on the AUA Open e-Class platform after the exam. The students are allowed to see their exam paper after its grading (during the announced office hours) and receive explanations about the grade they received.

5. ATTACHED BIBLIOGRAPHY

Suggested Bibliography in Greek Language:

- Δημητριάδης Γ. Σ., & Μιχιώτης Ν. Α. (2007). *Διοίκηση Παραγωγικών Συστημάτων*, Εκδ. ΚΡΙΤΙΚΗ, ISBN: 9789602185223
- Ιωάννου, Γ. (2005). *Διοίκηση Παραγωγής & Υπηρεσιών*, Εκδ. ΣΤΑΜΟΥΛΗ, ISBN: 9603516287
- Κακούρης, Α. (2013). *Διοίκηση Επιχειρησιακών Λειτουργιών*, Εκδ. ΠΡΟΠΟΜΠΟΣ, ISBN: 9789607860996
- Παππής Κ. (2008). *Διοίκηση Παραγωγής*, Εκδ. ΣΤΑΜΟΥΛΗ, ISBN: 9789603517467
- Slack, N., Chambers, S., & Johnston R. (2010), *Διοίκηση παραγωγής προϊόντων και υπηρεσιών*, Εκδ. ΚΛΕΙΔΑΡΙΘΜΟΣ, ISBN : 9789604613151

Suggested Bibliography in English Language:

- Lee Krajewski, Manoj Malhotra, Larry Ritzman (2018) *Operations Management: Processes and Supply Chains (What's New in Operations Management) 12th Edition*, Pearson
- Sushil Gupta, Martin Starr (2014) *Production and Operations Management Systems 1st Edition*, CRC Press
- Jay Heizer, Barry Render, Chuck Munson (2016) *Principles of Operations Management: Sustainability and Supply Chain Management 10th Edition*, Pearson
- William Stevenson (2020) *Operations Management*, McGraw-Hill Education; 14th edition
- Edward A. Silver, David F. Pyke, Douglas J. Thomas (2021) *Inventory and Production Management in Supply Chains 4th Edition*, CRC Press
- F. Robert Jacobs, William Berry, D Whybark, Thomas Vollmann (2018) *Manufacturing Planning and Control for Supply Chain Management: The CPIM Reference, Second Edition 2nd Edition*, McGraw Hill.

Related academic Journals:

- International Journal of Operations & Production Management
- Production and Operations Management
- Journal of Operations Management
- Operations Management Research

Instructor's Notes