

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	7th
COURSE TITLE	PRODUCTION MANAGEMENT		
INDEPENDENT TEACHING ACTIVITIES		WEEKLY TEACHING HOURS	CREDITS
Lectures		4	5
COURSE TYPE	Special Background – Skills Development		
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
<p>The aim of the course is:</p> <ul style="list-style-type: none"> • To introduce students to the planning, programming, organizing and control of the production process. • To explain to students how raw materials with processes are converted into products, with the right combination of appropriate production factors. • To encourage the understanding of the basic principles, methods and practices for solving the problems of organizing the modern production process. <p>Upon successful completion of the course, the student will be able to:</p> <ul style="list-style-type: none"> • Understand the importance of operating product production and / or service delivery within the business value chain • Recognizes the need for planning in operations management • Describe and apply short-, medium- and long-term planning techniques for operations management. • Understand in depth the concept of quality and efficient management of resources in operations management • Combine 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
<ul style="list-style-type: none"> • 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

<ol style="list-style-type: none"> 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 <p>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.</p> <p>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.</p>
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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	<i>Activity</i>	<i>Workload</i>

	Lectures (direct)	52	
	<i>Independent Study</i>	70	
	<i>Advisory support</i>	0.5	
	<i>Exams</i>	3	
	<i>Course Total</i> (Approximately 25 hours of workload per credit unit 125.5)	125,5 h	
STUDENT PERFORMANCE EVALUATION	<p>The evaluation process is in the language that the course is taught (Greek or English) and consists of:</p> <ol style="list-style-type: none"> Compulsory written final examination at the end of the semester (weighting factor 70% at least) which may includes: <ul style="list-style-type: none"> Multiple choice questionnaires Open-ended questions Problem solving Oral examination <p>Evaluation criteria: correctness, completeness, clarity</p> Compulsory written exam during the semester (weighting factor 30%) which may include: <ul style="list-style-type: none"> Multiple choice questionnaires Open-ended questions Problem solving Essay/report Oral examination <p>Evaluation criteria: correctness, completeness, clarity</p> <p>Special learning difficulties:</p> <p>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.</p> <p>Specifically-Defined Criteria:</p> <p>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.</p>		

5. ATTACHED BIBLIOGRAPHY

Suggested Bibliography in Greek Language:

- Reid D.R. & Sanders N.R. (2022). *Διοίκηση Επιχειρησιακών Λειτουργιών*, Εκδ. ΠΡΟΠΟΜΠΟΣ, ISBN: 9789607860996
- Δημητριάδης Γ. Σ., & Μιχιώτης Ν. Α. (2020). *Διοίκηση Παραγωγικών Συστημάτων*, Αθήνα: ΚΡΙΤΙΚΗ.
- Κουλουριώτης Δ. & Ξανθόπουλος Α. (2019). *Διοίκηση Παραγωγής και Επιχειρησιακών Λειτουργιών: Σχεδιασμός, Προγραμματισμός και Έλεγχος σε Συστήματα Παραγωγής και Υπηρεσιών*, Θεσσαλονίκη: ΤΖΙΟΛΑ.

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