

## COURSE OUTLINE

### 1. GENERAL

<b>SCHOOL</b>	AGRICULTURAL SCIENCE		
<b>DEPARTMENT</b>	FOOD SCIENCE AND TECHNOLOGY		
<b>LEVEL OF COURSE</b>	UNDERGRADUATE		
<b>COURSE CODE</b>	FST_E04	<b>SEMESTER OF STUDIES</b>	6 or 8
<b>COURSE TITLE</b>	PRODUCTION MANAGEMENT		
<b>INDEPENDENT TEACHING ACTIVITIES</b>		<b>TEACHING HOURS PER WEEK</b>	<b>ECTS CREDITS</b>
<p>σε περίπτωση που οι πιστωτικές μονάδες απονέμονται σε διακριτά μέρη του μαθήματος π.χ. Διαλέξεις, Εργαστηριακές Ασκήσεις κ.λπ. Αν οι πιστωτικές μονάδες απονέμονται ενιαία για το σύνολο του μαθήματος αναγράψτε τις εβδομαδιαίες ώρες διδασκαλίας και το σύνολο των πιστωτικών μονάδων</p>			
Lectures, seminars		4	5
<i>Add rows if necessary. The organisation of teaching and the teaching methods used are described in detail at (d).</i>			
<b>COURSE TYPE</b> <i>general background, special background, specialised general knowledge, skills development</i>	Special general knowledge		
<b>PREREQUISITE COURSES:</b>	There are no prerequisite courses		
<b>LANGUAGE OF INSTRUCTION and EXAMINATIONS:</b>	Greek		
<b>IS THE COURSE OFFERED TO ERASMUS STUDENTS</b>	No		
<b>COURSE WEBPAGE (URL)</b>			

### 2. LEARNING OUTCOMES

#### Learning outcomes

*The course learning outcomes, specific knowledge, skills and competences of an appropriate level, which the students will acquire with the successful completion of the course are described.*

*Consult Appendix A*

- *Description of the level of learning outcomes for each qualifications cycle, according to the Qualifications Framework of the European Higher Education Area*
- *Descriptors for Levels 6, 7 & 8 of the European Qualifications Framework for Lifelong Learning and Appendix B*
- *Guidelines for writing Learning Outcomes*

The operation of production management is one of the key administrative functions, which ensures the efficient and effective delivery of products. This course introduces students to the theory, methods and applications of production management. In particular, the issues raised include: The role of modern production management in business, productivity and competition, demand forecasts, location analysis, product design, production capacity, break-even point analysis, production planning, management and inventory management, general production planning. Furthermore, modern issues in production management are examined, such as: quality improvement, coordination of organizational functions (marketing, production, financial) and issues in international production.

The main objectives and expected learning outcomes of the course "Production Management" are:

- Develop students a clear picture of the problems of Production Management and be able to recognize these problems and their significance.
- Identify the basic types of operation of industrial units (continuous production, batch production, process units, assembly lines, etc.).

- Use quantitative and qualitative criteria for selecting the optimal location.
- Use methods to forecast demand.
- Analyze inventory management problems.

**General Competences**

*Taking into consideration the general competences that the degree-holder must acquire (as these appear in the Diploma Supplement and appear below), at which of the following does the course aim?*

<i>Search for, analysis and synthesis of data and information, with the use of the necessary technology</i>	<i>Search for, analysis and synthesis of data and information, with the use of the necessary technology</i>
<i>Adapting to new situations</i>	<i>Adapting to new situations</i>
<i>Decision-making</i>	<i>Decision-making</i>
<i>Working independently</i>	<i>Working independently</i>
<i>Team work</i>	<i>Team work</i>
<i>Working in an international environment</i>	<i>Working in an international environment</i>
<i>Working in an interdisciplinary environment</i>	<i>Working in an interdisciplinary environment</i>
<i>Production of new research ideas</i>	<i>Production of new research ideas</i>

By the end of this course the student will, furthermore, have developed the following skills (general abilities):

- Searching, analysis and synthesis of facts and information, as well as using the necessary technologies
- Adaptation to new situations
- Decision making
- Autonomous (Independent) work
- Group work
- Exercise of criticism and self-criticism
- Promotion of free, creative and inductive thinking
- Project design and management

**3. SYLLABUS**

- I. Introduction to production systems
- II. Forecasting Methods
- III. Break-even Point Analysis
- IV. Design and Development of Products or Services
- V. Capacity problems
- VI. Design of production systems
- VII. Inventory management

**4. TEACHING AND LEARNING METHODS - EVALUATION**

<b>DELIVERY</b> <i>Face-to-face, Distance learning, etc.</i>	Lectures, face to face
<b>USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY</b> <i>Use of ICT in teaching, laboratory education, communication with students</i>	<p>Use of Information and Communication Technologies (e.g. PowerPoint) in teaching.</p> <p>Communication with students: through e-mail, department's website and platform e-class.</p> <p>The lectures content of the course is uploaded on the e-class platform of the university along with additional material, datasheets and papers, that students can freely download them using a password which is provided to them at the beginning of the course.</p> <p>Workshop: Use of Excel to solve practical problems.</p>

<b>TEACHING METHODS</b>		
<p>The manner and methods of teaching are described in detail.</p> <p>Lectures, seminars, laboratory practice, fieldwork, study and analysis of bibliography, tutorials, placements, clinical practice, art workshop, interactive teaching, educational visits, project, essay writing, artistic creativity, etc.</p> <p>The student's study hours for each learning activity are given as well as the hours of non-directed study according to the principles of the ECTS</p>	<b>Activities</b>	<b>Work Load per semester</b>
	Lectures (3 hours per week x 13 weeks)	39
	Seminars (1 hour per week x 13 weeks)	13
	Group / Individual Work case study	25
	Final examination (3 hours)	3
	Non-guided study	45
	<b>Total number of hours for the Course (25 hours of work-load per ECTS credit)</b>	<b>125</b>
<b>STUDENT PERFORMANCE EVALUATION</b>	<p>Final exam (80%) – written, including:</p> <ul style="list-style-type: none"> <li>• Quick Questions,</li> <li>• Test Development Questions,</li> <li>• Problem solving,</li> <li>• Multiple choice questions</li> <li>• Short case study Analysis</li> <li>• Theory data analysis</li> </ul> <p>Presentation of Group / Individual work (20%)</p> <p>Grading scale: 1 to 10. Minimum passing grade: 5. Examination time: 3 hours.</p>	
<p>Description of the evaluation procedure</p> <p>Language of evaluation, methods of evaluation, summative or conclusive, multiple choice questionnaires, short-answer questions, open-ended questions, problem solving, written work, essay/report, oral examination, public presentation, laboratory work, clinical examination of patient, art interpretation, other</p> <p>Specifically-defined evaluation criteria are given, and if and where they are accessible to students.</p>		

## 5. ATTACHED BIBLIOGRAPHY

1. Adamidis E. D. (2004), Introduction to Production Management, Publisher: Patakis (in Greek).
2. Dimitriadis S. And Michiotis A. (2007), Production Systems Management, Publisher: Kritiki Ltd (in Greek).
3. Pappis K. (2008), Production Management, 2<sup>nd</sup> Edition, Publisher: Stamoulis (in Greek).
4. Ioannou G. (2005), Production and Services Management, Publisher: Stamoulis (in Greek).
5. Dean, P. (2002), *Production Management: Making Shows Happen: A Practical Guide*, Crowood Press.
6. Anderson, E and Parker, G.(2013), *Operations Management, For Dummies*.