

## COURSE OUTLINE

### PRODUCTION AND OPERATIONS MANAGEMENT

#### (1) GENERAL

<b>SCHOOL</b>	TECHNOLOGY		
<b>DEPARTMENT</b>	FORESTRY, WOOD SCIENCES & DESIGN		
<b>LEVEL</b>	POSTGRADUATE		
<b>COURSE CODE</b>	M112	<b>SEMESTER</b>	1 <sup>st</sup>
<b>COURSE TITLE</b>	PRODUCTION AND OPERATIONS MANAGEMENT		
<b>ACTIVITIES</b>	<b>WEEKLY HOURS</b>	<b>ECTS</b>	
	Lectures	2	6
	<b>TOTAL</b>	2	6
<b>TYPE OF COURSE</b>	OBLIGATORY		
<b>PREREQUISITES</b>	NO		
<b>LANGUAGE TEACHING AND EXAMINATION:</b>	GREEK		
<b>THE COURSE OFFERED TO STUDENTS ERASMUS</b>	NO		
<b>WEBPAGES COURSE (URL)</b>	<a href="https://eclass.uth.gr/courses/FWSD_P_102/">https://eclass.uth.gr/courses/FWSD_P_102/</a>		

#### (2) LEARNING OUTCOMES

<b>Learning Outcomes</b>
<p>The aim of the course is to provide basic knowledge and skills for the effective organization and management of a company's resources, with a focus on the woodworking and wood products industry.</p> <p>The main objectives of the course are the acquisition of knowledge and skills:</p> <ol style="list-style-type: none"><li>In the functions of planning and creating a production unit based on the business concept.</li><li>in the effective planning, coordination and control of all production functions, such as material inflow, production and inventory management processes.</li><li>in adapting operations to the company's strategic goals based on competitiveness in the modern globalized business context.</li></ol>
<b>General Skills</b>

#### (3) COURSE CONTENT

The course content is as follows:

In the theoretical part of the course the student is taught and learns about:

- Strategic role of Production Management and its relationship with business strategy
- Decision systems in production organization.
- Strategic Selection of resources, capabilities, processes, location and Spatial Planning
- Production planning, production methods and production capacity
- Product planning: levels and process of planning in relation to the product life cycle
- Production planning.
- Maintenance and replacement of mechanical equipment and production facilities.
- Modern stock theories
- Supply Chain Management

The presentation of the topics is accompanied by corresponding quantitative and more widely empirical documentation from the Greek and international fields. The lectures combine theory with examples from practice through case studies on wood product businesses (e.g. furniture production, veneer production, etc.).

The final assignment includes, in addition to paper and electronic submission, a public oral presentation on the chosen topic, on a set date (usually the 12th or 13th week of classes). The presentation lasts 15 minutes and is followed by 5 minutes of questions from the students present. The teacher intervenes - if necessary - for comments, observations, corrections.

Students are graded on their overall performance in their final paper: 70% on content and editorial specifications and 30% on preparation of the online presentation and oral support thereof.

These grades count for a total of 40% of the overall grade that students will receive after the final written theory exam.

#### (4) TEACHING AND LEARNING METHODS - EVALUATION

<b>DELIVERY METHOD</b>	In class and remotely	
<b>USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES</b>	<ul style="list-style-type: none"> <li>• Use PCs, ppt slides, and videos.</li> <li>• Support of the learning process through the e-class electronic platform.</li> <li>• Interactive Whiteboard</li> <li>• Eight (8) PCs in the Laboratory to exercise students in a questionnaire processing program.</li> </ul>	
<b>MANAGEMENT OF TEACHING</b>	<b>Activity</b>	<b>Semester Workload</b>
	Lectures	26
	Small individual practice tasks	20
	Final assignment	60
	Independent Study	44
	<b>Course Total (25 workload hours per credit unit)</b>	<b>150</b>
<b>STUDENT EVALUATION</b>	<p>I. Written final exam (60%) which includes:</p> <ul style="list-style-type: none"> <li>- Short answer questions from all the material in the book</li> <li>- Solving exercises related to the subject of the course</li> </ul> <p>II. Presentation of Individual Assignment (40%).</p>	

#### (5) RECOMMENDED-BIBLIOGRAPHY

<p>- Suggested Bibliography:</p> <ul style="list-style-type: none"> <li>• Αυλωνίτης Σ. «Οργάνωση και Διοίκηση Παραγωγής», εκδόσεις ΙΩΝ 2002.</li> <li>• Krajewski L. ,L. Pitzman “Operations management” 5th edition, Addison Wisley, 1998.</li> <li>• Λιαρμακόπουλος Λ. «Διοίκηση συστημάτων παραγωγής» Πάτρα 2001.</li> <li>• Αδαμίδης, Ε.Δ., Στρατηγική Διοίκηση της Παραγωγής, Εκδόσεις Κλειδάριθμος, Αθήνα, 2009.</li> <li>• Δημητριάδης, Σ.Γ. και Μιχιώτης, Α.Ν., Διοίκηση Παραγωγικών Συστημάτων: Βασικές Θεωρητικές Αρχές και Εφαρμογές στη Λήψη Επιχειρηματικών Αποφάσεων, Εκδόσεις Κριτική, Αθήνα, 2007.</li> <li>• Slack, N., Chambers, S. και Johnston R., Διοίκηση Παραγωγής Προϊόντων και Υπηρεσιών (5<sup>η</sup> Αγγλική Έκδοση), Εκδόσεις Κλειδάριθμος, Αθήνα, 2010.</li> </ul>
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