

COURSE OUTLINE

1. GENERAL INFORMATION

SCHOOL	MARITIME AND INDUSTRIAL STUDIES		
DEPARTMENT	INDUSTRIAL MANAGEMENT AND TECHNOLOGY		
LEVEL OF STUDY	UNDERGRADUATE		
COURSE UNIT CODE	TEΠAP35	SEMESTER OF STUDY	5 th
COURSE TITLE	PRODUCTION PLANNING AND CONTROL		
INDEPENDENT TEACHING ACTIVITIES <i>in case in which credits are awarded for separate components/parts of the course, e.g. in lectures, laboratory exercises, etc. If credits are awarded for the whole of the course, give the weekly teaching hours and the total credits</i>		WEEKLY TEACHING HOURS	CREDITS
Lectures		4	5.5
<i>Add rows if necessary. The organization of teaching and the teaching methods used are described in detail at section 4.</i>			
COURSE TYPE <i>general background, special background, specialized general knowledge, skills development</i>	Special background		
PREREQUISITE COURSES:	None		
LANGUAGE OF INSTRUCTION and EXAMINATION/ASSESSMENT:	Greek		
THE COURSE IS OFFERED TO ERASMUS STUDENTS	No		
COURSE WEBSITE (URL)	https://eclass.unipi.gr/courses/BDT113/		

2. LEARNING OUTCOMES

<p>LEARNING OUTCOMES</p> <p><i>The course learning outcomes, specific knowledge, skills and competences of an appropriate (certain) level, which students will acquire upon successful completion of the course, are described in detail. It is necessary to consult:</i></p> <p>APPENDIX A</p> <ul style="list-style-type: none"> • <i>Description of the level of learning outcomes for each qualifications' cycle, according to the European Higher Education Area's Qualification Framework.</i> • <i>Descriptors for Levels 6, 7 & 8 of the European Qualifications Framework for Lifelong Learning and APPENDIX B</i> • <i>Guidelines for writing Learning Outcomes</i>
<p>Production Planning and Control examines the issues of organizing and controlling the operation of installed production systems and, in particular, the analysis and solving short and long-term production and supply chain problems that are both tactical and operational. It is a core course in the Department's curriculum. It combines economic and technical approaches in a single logic and combined with the course "Production Systems Design" provides the knowledge of the overall management of industrial operation from the short to the long term.</p> <p>.</p> <p>Upon successful completion of the course, the students will be able to:</p> <ul style="list-style-type: none"> • Define the concept of production management and understand how it is applied to enterprises that manufacture products and/or provide services • Assess factors and decision making mechanisms in production • Plan and control the production process • Quantitate material requirements standards and production capacity • Understand the concepts of modern inventory management methods

- Identify the critical performance points of the production process and be able to manage any deviations from production patterns
- Manage time and aggregate planning issues
- Manage basic project management issues
- Use the cognitive background of the course in their future careers in areas such as: logistics, project management, sales & marketing, product development, production systems, ERP

General Competences

Taking into consideration the general competences that students/graduates must acquire (as those are described in the Diploma Supplement and are mentioned below), at which of the following does the course attendance aims

Search for, analysis and synthesis of data and information, by the use of technologies that are necessary according the case

Adapting to new situations

Decision-making

Independent work

Team work

Working in an international environment

Working in an interdisciplinary environment

Introduction of innovative research

Project planning and management

Respect for difference and multiculturalism

Environmental awareness

Social, professional and ethical responsibility and sensitivity to gender issues

Critical consciousness, criticism and self-criticism

Development of free, creative and inductive thinking

- Search for, analysis and synthesis of data and information, by the use of technologies that are necessary according the case
- Adapting to new situations
- Decision-making
- Independent work
- Project planning and management
- Social, professional and ethical responsibility and sensitivity to gender issues
- Critical consciousness, criticism and self-criticism
- Development of free, creative and inductive thinking

2. COURSE CONTENT

The course covers the following topics:

- Forecasting methods
- Inventory systems
- Material requirements planning
- Integrated supply chain systems
- Aggregate planning
- Scheduling of production systems
- Introduction to Project Management
- Maintenance and repair of equipment

In addition, articles, audiovisual lecture material, web addresses, useful information, exercises and/or software are posted at e-class.

3. TEACHING METHODS - ASSESSMENT

TEACHING MODE <i>Face-to-face, in-class lecturing, on distance teaching and distance learning etc.</i>	In-class lecturing	
USE OF INFORMATION AND COMMUNICATION TECHNOLOGY <i>Use of ICT in Teaching, Laboratory Education, Communication with students</i>	Teaching: Lectures with audiovisual media, support of the learning process through the eclass platform Communication with students: face-to-face at office hours, email, eclass	
COURSE DESIGN	Activity / Method	Semester Workload

<p><i>Description of teaching techniques, practices and methods:</i> Lectures, seminars, laboratory practice, fieldwork, study and analysis of bibliography, tutorials, clinical practice, Art Workshop, Interactive teaching, Educational visits, project, Essay writing, Artistic creativity, etc.</p> <p><i>The study hours for each learning activity as well as the hours of non- directed study are given according to the principles of the ECTS</i></p>	Lectures	52
	Case studies/exercises	26
	Self-study of lecture material and exercises	57
	Counselling	0.5
	Exams (written)	2
	Course Total	137.5
<p>STUDENT PERFORMANCE EVALUATION/ASSESSMENT METHODS</p> <p><i>Detailed description of the evaluation procedures:</i> Language of evaluation, assessment methods, formative or summative (conclusive), multiple choice questionnaires, short- answer questions, open-ended questions, problem solving, written work, Essay/report, oral exam, public presentation, laboratory work, art interpretation, other.....etc</p> <p><i>Evaluation criteria are specifically defined and given as well as if and where they are reported and accessible to students.</i></p>	<p>Language of exams: Greek</p> <p>Assessment Methods: After the last lecture, the exam material is posted at eclass. The final course grade is formed by written exams either in the form of midterms or in the final exam taken in the examination period of the fall semester and, in case of failure, in the September resits. The written examination includes problem solving / exercises and short-answer and open-ended questions. It is conducted with a formulas' sheet.</p> <p>The evaluation of students with special learning difficulties in writing and reading (as certified and qualified by a competent institution) is performed according to the relevant procedure decided by the Department Assembly.</p> <p>Notification of the Assessment Criteria: The evaluation criteria are made known during the first lecture and are clearly stated on the course website and e-class. The answers to the exam questions are posted at e-class after the exam date. Students have the opportunity to discuss their exam paper with the course instructor (at the posted office hours) after the announcement of the course grades.</p>	

4. SUGGESTED BIBLIOGRAPHY

-Suggested Bibliography :

- Book [68405566]: Production Planning [in Greek], Pappis K.P.
- Book [11513]: Management of Production Systems [in Greek], Dimitriadis S.G., Michiotis A.N.
- Βιβλίο [68374324]: Production and Operations Management: Design, Programming and Control of Production Systems and Services [in Greek], Koulouriotis D., Xanthopoulos A.

-Lecture Notes