COURSE OUTLINE

1. GENERAL INFORMATION

SCHOOL	MARITIME AND INDUSTRIAL STUDIES		
DEPARTMENT	INDUSTRIAL MANAGEMENT AND TECHNOLOGY		
LEVEL OF STUDY	UNDERGRADUATE		
COURSE UNIT CODE		**SEMESTER OF STUDY**	8th
COURSE TITLE	CONTEMPORARY TOPICS IN INDUSTRIAL MANAGEMENT & TECHNOLOGY		
INDEPENDENT TEACHING ACTIVITIES *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*		**WEEKLY TEACHING HOURS**	**CREDITS**
Lectures and Project		3	2.5
Add rows if necessary. The organization of teaching and the teaching methods used are described in detail at section 4.			
COURSE TYPE *general background, special background, specialized general knowledge, skills development*	Special background		
PREREQUISITE COURSES:	None		
LANGUAGE OF INSTRUCTION and EXAMINATION/ASSESSMENT:	Greek / English (in ERASMUS class)		
THE COURSE IS OFFERED TO ERASMUS STUDENTS	Yes		
COURSE WEBSITE (URL)	http://www.tex.unipi.gr/undergraduate-courses/sugxrona-themata-biomhxanikhs-dioikhshs-texnologias/?lang=en		

2. LEARNING OUTCOMES

LEARNING OUTCOMES

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:

APPENDIX A

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

The aim of the course is to draw students' attention to a variety of issues related to the practical application of Advanced Technologies and Management Methodologies that govern modern Industries and Production Units.

In the previous semesters, the students have been presented / taught and have acquired (mainly theoretical) knowledge in the basic methodologies of Management Science as well as in the basic Technologies of modern Production Systems. This course complements the above scientific background by presenting to students the application of the previously taught techniques in practice, by means of lectures / speeches / reports on certain real problems / case studies faced by various (industrial) companies. These presentations will be carried out by invited executives of relevant companies and / or leading researchers, academics, etc.

Upon completion of the course students:

- will become familiar with the present-day industrial environment and the challenges it faces

- will study in depth problem analysis and problem solving
- will successfully apply the techniques taught in real situations

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
- Working in an international environment (ERASMUS)
- Working in an interdisciplinary environment (ERASMUS)
- Introduction of innovative research
- Project planning and management
- Respect for difference and multiculturalism
- 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 core modules of Management Science and Industrial Technology of modern Production Systems that have been presented to students in the previous semesters.

In addition, articles, audiovisual lecture material, web addresses, useful information, exercises and case studies are posted at eclass.

3. TEACHING METHODS - ASSESSMENT

TEACHING MODE *Face-to-face, in-class lecturing, on distance teaching and distance learning etc.*	In-class lecturing
USE OF INFORMATION AND COMMUNICATION TECHNOLOGY *Use of ICT in Teaching, Laboratory Education, Communication with students*	**Teaching:** Lectures with audiovisual media, support of the learning process through the eclass platform. **Communication with students:** Face-to-face at office hours with the faculty member responsible for this class. Also via email, with each of the invited lecturers / speakers.
COURSE DESIGN *Description of teaching techniques, practices and methods:* *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.*	

Activity / Method	***Semester Workload***
Seminar lectures	39
Self-study of lecture material	8
Project	15
Counselling	0.5
Course Total	***62.5***

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	
STUDENT PERFORMANCE EVALUATION/ASSESSMENT METHODS *Detailed description of the evaluation procedures:* *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* *Evaluation criteria are specifically defined and given as well as if and where they are reported and accessible to students.*	**Language of exams:** Greek / English (in ERASMUS class) **Assessment Methods:** The final grade of the course is formed by taking into account the participation of students in course activities and the submission of individual written work/report on two (2) relevant scientific publications from the international literature. In the case that a student has successfully participated in course activities but has failed to submit the aforementioned individual written work/report in the first examination period, he/she can submit it in the re-examination period of September. It is noted that the grade of the course is not included in the final average mark of the degree. Students are examined with a pass / fail grade. 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. **Notification of the Assessment Criteria:** The evaluation criteria are made known during the first lecture and are clearly stated on the course website and/or eclass. Students have the opportunity to receive explanations about the grade they received.

4. SUGGESTED BIBLIOGRAPHY

-Journals (indicative):

- Computers in Industry
- International Journal of Production Research
- International Journal of Production Economics
- International Journal of Advanced Manufacturing Technology
- International Journal of Logistics Research & Applications
- International Journal of Physical Distribution & Logistics Management

-Lecture notes/presentations by invited speakers