

COURSE OUTLINE

1. GENERAL INFORMATION

SCHOOL	MARITIME AND INDUSTRIAL STUDIES		
DEPARTMENT	INDUSTRIAL MANAGEMENT AND TECHNOLOGY		
LEVEL OF STUDY	UNDERGRADUATE		
COURSE UNIT CODE	TEΠΛΗ01	SEMESTER OF STUDY	1 st
COURSE TITLE	INTRODUCTION TO COMPUTERS		
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, Laboratory Exercises and Project		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>	General 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/BDT234/		

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 course is an introduction to current computer sciences, with emphasis on networks, the internet and the worldwide web, the markup languages for websites, and the use of basic computing tools (excel) for data analysis and presentation.

Upon successful completion of the course, the students will be able to:

- Demonstrate knowledge on basic computer architectures
- Demonstrate an understanding on the basic concepts of the internet and the worldwide web
- Design a webpage using HTML
- Interpret and represent data on various numerical systems
- Understand and execute logical and numerical operations
- Use Excel capabilities to group, analyze, and visualize data
- Demonstrate basic knowledge on algorithms, understand and monitor or/and develop simple algorithms in pseudo-code

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
- Team work
- Respect for difference and multiculturalism
- Social, professional and ethical responsibility and sensitivity to gender issues
- Development of free, creative and inductive thinking

2. COURSE CONTENT

The course will cover the following topics:

1. Networks - Internet – Worldwide Web

1.1. Networks – Computer networks

1.2. The Internet

1.3. Worldwide web

2. HTML

2.1. Creation of webpages

2.2. Hypertext

2.3. HTML – HyperText Mark-up Language

2.3.1. Code writing

2.3.2. Markup languages

2.3.3. HTML file definition markers

2.3.4. Character formatting (sequences)

2.3.5. Text collation marks

2.3.6. Web site audio / visual formatting labels

2.3.7. Basic tags for creating and formatting lists

2.3.8. Basic tags for creating and formulating tables

2.3.9. Basic hyperlinks

2.3.10. Basic map maker marks

2.3.11. Basic frame creation marks

2.3.12. Basic field fill marks

2.4. Hypertext creation steps

2.5. Final markups

3. EXCEL

3.1. Explanation of the capabilities and introduction into the vocabulary and the basic functions

3.2. Data input and formatting, accuracy (display and encoding), operations and priority of operations

3.3. organization of data in rows and columns, field change and automatic change of relevant data

3.4. Embedded functions

3.5. Basic capabilities of functions and automatic field change

3.6. Workbooks and worksheets

3.7. Creation of tables

3.8. Basic graphics capabilities (charts, map-creation markers)

Students also attend a laboratory training program in the Laboratory of Production Management Information Systems in order to develop an intuitive and hands-on understanding of the concepts presented in the lectures. The software used is MS EXCEL or equivalent (Open Office, etc.). Students are trained in workshops with a rotation system. The workshop program is posted on the course website and eclass at the beginning of the semester.

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

3. TEACHING METHODS - ASSESSMENT

<p>TEACHING MODE <i>Face-to-face, in-class lecturing, on distance teaching and distance learning etc.</i></p>	In-class lecturing / Laboratory teaching																			
<p>USE OF INFORMATION AND COMMUNICATION TECHNOLOGY <i>Use of ICT in Teaching, Laboratory Education, Communication with students</i></p>	<p>Teaching: Lectures with audiovisual media, support of the learning process through the eclass platform Laboratory Education: Use of open access software for laboratory exercises Communication with students: face-to-face at office hours, email, eclass</p>																			
<p>COURSE DESIGN <i>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.</i></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>	<table border="1"> <thead> <tr> <th data-bbox="663 936 1002 967"><i>Activity / Method</i></th> <th data-bbox="1008 936 1340 967"><i>Semester Workload</i></th> </tr> </thead> <tbody> <tr> <td data-bbox="663 967 1002 999">Lectures</td> <td data-bbox="1008 967 1340 999">26</td> </tr> <tr> <td data-bbox="663 999 1002 1030">Laboratory exercises</td> <td data-bbox="1008 999 1340 1030">26</td> </tr> <tr> <td data-bbox="663 1030 1002 1061">Project</td> <td data-bbox="1008 1030 1340 1061">41</td> </tr> <tr> <td data-bbox="663 1061 1002 1133">Self-study of lecture and lab material</td> <td data-bbox="1008 1061 1340 1133">43</td> </tr> <tr> <td data-bbox="663 1133 1002 1164">Counselling</td> <td data-bbox="1008 1133 1340 1164">0.5</td> </tr> <tr> <td data-bbox="663 1164 1002 1196">Exams (written)</td> <td data-bbox="1008 1164 1340 1196">1</td> </tr> <tr> <td data-bbox="663 1196 1002 1227"></td> <td data-bbox="1008 1196 1340 1227"></td> </tr> <tr> <td data-bbox="663 1227 1002 1258">Course Total</td> <td data-bbox="1008 1227 1340 1258">137.5</td> </tr> </tbody> </table>		<i>Activity / Method</i>	<i>Semester Workload</i>	Lectures	26	Laboratory exercises	26	Project	41	Self-study of lecture and lab material	43	Counselling	0.5	Exams (written)	1			Course Total	137.5
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<p>STUDENT PERFORMANCE EVALUATION/ASSESSMENT METHODS <i>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</i></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 the optional project (30%) and by the written exams taken in the examination period of the winter semester and, in case of failure, in the September resits.</p> <p>The written examination includes problem solving / exercises and short answer questions. It is conducted with closed books.</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 eclass after the exam date. Students have the opportunity to discuss their</p>																			

	exam paper with the course instructor (at the posted office hours) after the announcement of the course grades.
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4. SUGGESTED BIBLIOGRAPHY

-Suggested Bibliography :

- Book [68407011]: Technologies and Programming in the Worldwide Web [in Greek], C. Douligeris, R. Mavropodi, E. Kopanaki, A. Karalis

-Scientific Journals: not applicable

-Lecture Notes

-Laboratory workbook