

## COURSE OUTLINE

### (1) GENERAL

<b>SCHOOL</b>	Faculty of Social, Political and Economic Sciences		
<b>ACADEMIC UNIT</b>	Department of Economics		
<b>LEVEL OF STUDIES</b>	Undergraduate		
<b>COURSE CODE</b>	NK25	<b>SEMESTER</b>	2nd
<b>COURSE TITLE</b>	Informatics 2		
<b>INDEPENDENT TEACHING ACTIVITIES</b> <i>if credits are awarded for separate components of the course, e.g. lectures, laboratory exercises, etc. If the credits are awarded for the whole of the course, give the weekly teaching hours and the total credits</i>		<b>WEEKLY TEACHING HOURS</b>	<b>CREDITS</b>
Lectures		4	6
<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>	General Background		
<b>PREREQUISITE COURSES:</b>			
<b>LANGUAGE OF INSTRUCTION and EXAMINATIONS:</b>	Greek		
<b>IS THE COURSE OFFERED TO ERASMUS STUDENTS</b>	Yes		
<b>COURSE WEBSITE (URL)</b>	<a href="http://www.econ.duth.gr/undergraduate/lessons/b5.shtml">http://www.econ.duth.gr/undergraduate/lessons/b5.shtml</a>		

## (2) LEARNING OUTCOMES

<p><b>Learning outcomes</b>  <i>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.</i></p> <p>Consult Appendix A</p> <ul style="list-style-type: none"> <li>• Description of the level of learning outcomes for each qualifications cycle, according to the Qualifications Framework of the European Higher Education Area</li> <li>• Descriptors for Levels 6, 7 &amp; 8 of the European Qualifications Framework for Lifelong Learning and Appendix B</li> <li>• Guidelines for writing Learning Outcomes</li> </ul>																			
<p>After the end of the course the student should know the basic concepts of programming through a computer language. They should be able to analyse a computational problem and transform it to a computer function. They should be familiarized with various data structures and controlled input-output variables in the construction of a function.</p>																			
<p><b>General Competences</b>  <i>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></p> <table border="0"> <tr> <td><i>Search for, analysis and synthesis of data and information, with the use of the necessary technology</i></td> <td><i>Project planning and management</i></td> </tr> <tr> <td><i>Adapting to new situations</i></td> <td><i>Respect for difference and multiculturalism</i></td> </tr> <tr> <td><i>Decision-making</i></td> <td><i>Respect for the natural environment</i></td> </tr> <tr> <td><i>Working independently</i></td> <td><i>Showing social, professional and ethical responsibility and sensitivity to gender issues</i></td> </tr> <tr> <td><i>Team work</i></td> <td><i>Criticism and self-criticism</i></td> </tr> <tr> <td><i>Working in an international environment</i></td> <td><i>Production of free, creative and inductive thinking</i></td> </tr> <tr> <td><i>Working in an interdisciplinary environment</i></td> <td>.....</td> </tr> <tr> <td><i>Production of new research ideas</i></td> <td><i>Others...</i></td> </tr> <tr> <td></td> <td>.....</td> </tr> </table>		<i>Search for, analysis and synthesis of data and information, with the use of the necessary technology</i>	<i>Project planning and management</i>	<i>Adapting to new situations</i>	<i>Respect for difference and multiculturalism</i>	<i>Decision-making</i>	<i>Respect for the natural environment</i>	<i>Working independently</i>	<i>Showing social, professional and ethical responsibility and sensitivity to gender issues</i>	<i>Team work</i>	<i>Criticism and self-criticism</i>	<i>Working in an international environment</i>	<i>Production of free, creative and inductive thinking</i>	<i>Working in an interdisciplinary environment</i>	.....	<i>Production of new research ideas</i>	<i>Others...</i>		.....
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## (3) SYLLABUS

<p>The course aims to present the basic concepts of computer programming: constants and variables, mathematical and logical operators, functions and batch files, flow control. During the course various examples are presented for every subject.</p>
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## (4) TEACHING and LEARNING METHODS - EVALUATION

<p><b>DELIVERY</b>  <i>Face-to-face, Distance learning, etc.</i></p>	<ul style="list-style-type: none"> <li>• Class lectures</li> <li>• Notes, slides, etc posted on e-class</li> </ul>				
<p><b>USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY</b>  <i>Use of ICT in teaching, laboratory education, communication with students</i></p>	<ul style="list-style-type: none"> <li>• Support of the learning process via e-class</li> </ul>				
<p><b>TEACHING METHODS</b>  <i>The manner and methods of teaching are described in detail.</i></p>	<table border="1"> <thead> <tr> <th><i>Activity</i></th> <th><i>Semester workload</i></th> </tr> </thead> <tbody> <tr> <td>Lectures</td> <td>50</td> </tr> </tbody> </table>	<i>Activity</i>	<i>Semester workload</i>	Lectures	50
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<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>	Study	60
	Exercises	40
	Course total	150
<p><b>STUDENT PERFORMANCE EVALUATION</b>  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>	<p>In class exam</p> <ul style="list-style-type: none"> <li>• Solution of exercises</li> </ul>	

## (5) ATTACHED BIBLIOGRAPHY

<ul style="list-style-type: none"> <li>• Matlab 6.5, Παπαρρίζος Κωνσταντίνος</li> <li>• Μαθετε το Matlab 7, Hanselman and Littlefield, Εκδόσεις Κλειδάριθμος</li> </ul>
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