

## COURSE OUTLINE

### (1) GENERAL

<b>SCHOOL</b>	School of Social Sciences		
<b>ACADEMIC UNIT</b>	Dpt of Cultural Technology & Communication		
<b>LEVEL OF STUDIES</b>	Undergraduate		
<b>COURSE CODE</b>	PLR128	<b>SEMESTER</b>	6th
<b>COURSE TITLE</b>	Multimedia Applications Programming II		
<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	2	3	
Laboratory practise	2	2	
Add rows if necessary. The organisation of teaching and the teaching methods used are described in detail at (d).	4	5	
<b>COURSE TYPE</b> <i>general background, special background, specialised general knowledge, skills development</i>	General background		
<b>PREREQUISITE COURSES:</b>	Multimedia Applications Programming 1		
<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="https://eclass.aegean.gr/courses/131199/">https://eclass.aegean.gr/courses/131199/</a>		

### (2) LEARNING OUTCOMES

<p><b>Learning outcomes</b></p> <p><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><i>Consult Appendix A</i></p> <ul style="list-style-type: none"> <li>• <i>Description of the level of learning outcomes for each qualifications cycle, according to the Qualifications Framework of the European Higher Education Area</i></li> <li>• <i>Descriptors for Levels 6, 7 &amp; 8 of the European Qualifications Framework for Lifelong Learning and Appendix B</i></li> <li>• <i>Guidelines for writing Learning Outcomes</i></li> </ul>
<p>At the conclusion of this course, the students are expected to be able to:</p> <ul style="list-style-type: none"> <li>• Describe the structure and functions of an online relational database system.</li> <li>• Design and develop online database systems to be used for cultural informatics applications.</li> <li>• Design and develop software to interact with online database systems, thus developing dynamic web sites.</li> <li>• Design smart flexible back-ends for online applications</li> <li>• Communicate efficiently their knowledge, which is acquired from the lectures, to colleagues in order to establish fruitful co-operations for creating cultural informatics applications.</li> </ul>
<p><b>General Competences</b></p> <p><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> <p><i>Search for, analysis and synthesis of data and</i> <span style="float: right;"><i>Project planning and management</i></span></p>

<i>information, with the use of the necessary technology</i> <i>Adapting to new situations</i> <i>Decision-making</i> <i>Working independently</i> <i>Team work</i> <i>Working in an international environment</i> <i>Working in an interdisciplinary environment</i> <i>Production of new research ideas</i>	<i>Respect for difference and multiculturalism</i> <i>Respect for the natural environment</i> <i>Showing social, professional and ethical responsibility and sensitivity to gender issues</i> <i>Criticism and self-criticism</i> <i>Production of free, creative and inductive thinking</i> ..... <i>Others...</i> .....
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- Search for, analysis and synthesis of data and information, with the use of the necessary technology
- Production of new research ideas
- Production of free, creative and inductive thinking
- Working in an interdisciplinary environment
- Team work

**(3) SYLLABUS**

Introduction to the basic concepts of middle-tier programming languages, especially PHP, basic functions of web servers, and interaction between the front-end and the back-end of an online system (AJAX).

**(4) TEACHING and LEARNING METHODS - EVALUATION**

<b>DELIVERY</b> <i>Face-to-face, Distance learning, etc.</i>	Face to face lecturing																						
<b>USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY</b> <i>Use of ICT in teaching, laboratory education, communication with students</i>	Use of open-source software																						
<b>TEACHING METHODS</b> <i>The manner and methods of teaching are described in detail.</i> <i>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.</i>  <i>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</i>	<table border="1"> <thead> <tr> <th style="text-align: center;"><i>Activity</i></th> <th style="text-align: center;"><i>Semester workload</i></th> </tr> </thead> <tbody> <tr> <td>Lectures</td> <td>13 *2 hrs =26 hrs</td> </tr> <tr> <td>Lectures studying</td> <td>13*5 hrs = 65 hrs</td> </tr> <tr> <td>Lab practise</td> <td>13*2 = 26 hrs</td> </tr> <tr> <td>Studying of lab practice and final assignment</td> <td>30 hrs</td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td>Course total</td> <td style="text-align: center;"><b>147 hrs</b></td> </tr> </tbody> </table>	<i>Activity</i>	<i>Semester workload</i>	Lectures	13 *2 hrs =26 hrs	Lectures studying	13*5 hrs = 65 hrs	Lab practise	13*2 = 26 hrs	Studying of lab practice and final assignment	30 hrs											Course total	<b>147 hrs</b>
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<b>STUDENT PERFORMANCE EVALUATION</b> <i>Description of the evaluation procedure</i>  <i>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,</i>	Final written examination																						

*public presentation, laboratory work, clinical examination of patient, art interpretation, other*

*Specifically-defined evaluation criteria are given, and if and where they are accessible to students.*

## **(5) ATTACHED BIBLIOGRAPHY**

*- Suggested bibliography:*

- Welling Luke, Thomson Laura, Ανάπτυξη Web Εφαρμογών με PHP και MySQL, 4η Έκδοση, 2015, εκδόσεις Α. Γκιούρδα & ΣΙΑ, 2011, ISBN: 978 960 512 617 9.
- Melonie Julie C, Μάθετε PHP, MySQL και Apache Όλα σε Ένα, 5η Έκδοση, εκδόσεις Α. Γκιούρδα & ΣΙΑ, 2014, ISBN: 978-960-512-6551.

*- Related academic journals:*

- International Journal of Web Engineering and Technology, Interscience
- International Journal of Information Technology and Web Engineering, IGI Global
- International Journal of Electronic Commerce, Taylor & Francis