

COURSE OUTLINE

(1) GENERAL

SCHOOL	School of Engineering		
ACADEMIC UNIT	Department of Financial and Management Engineering		
LEVEL OF STUDIES	Undergraduate		
COURSE CODE	FE0141	SEMESTER	9
COURSE TITLE	Web Application Development		
INDEPENDENT TEACHING ACTIVITIES <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>		WEEKLY TEACHING HOURS	CREDITS
<i>Add rows if necessary. The organisation of teaching and the teaching methods used are described in detail at (d).</i>		3	5
COURSE TYPE <i>general background, special background, specialised general knowledge, skills development</i>	Elective Module		
PREREQUISITE COURSES:	-		
LANGUAGE OF INSTRUCTION and EXAMINATIONS:	Greek. In case of ERASMUS students: English		
IS THE COURSE OFFERED TO ERASMUS STUDENTS	Yes		
COURSE WEBSITE (URL)	http://www.fme.aegean.gr/en/c/web-application-development		

(2) LEARNING OUTCOMES

Learning outcomes

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.

Consult Appendix A

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

At the end of the course, students are able to

- Understand the concepts, terms and technologies used in web site design and development
- Understand the theories and principles underlying web site design and development.
- Demonstrate how to develop web sites through an iterative process.

- Master the design principles and techniques of dynamic web application development.

General Competences

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?

Search for, analysis and synthesis of data and information, with the use of the necessary technology
Adapting to new situations
Decision-making
Working independently
Team work
Working in an international environment
Working in an interdisciplinary environment
Production of new research ideas

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

(3) SYLLABUS

- Introduction to HTML
- More on HTML
- Introduction to CSS
- More on CSS
- Introduction to Javascript
- More on Javascript
- Introduction to PHP
- More on PHP
- Introduction to Database Driven Websites
- PHP/Databases Connectivity
- The MVC model
- jQuery and AJAX
- Project Assignment
- Review

(4) TEACHING and LEARNING METHODS - EVALUATION

DELIVERY <i>Face-to-face, Distance learning, etc.</i>	Face-to-face	
USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY <i>Use of ICT in teaching, laboratory education, communication with students</i>	Use of ICT in communication with students	
TEACHING METHODS <i>The manner and methods of teaching are</i>	Activity	Semester workload

<i>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>	Lectures	39 hours (1.56 ECTS)
	Personal study	83 hours (3.32 ECTS)
	End of semester exam	3 hours (0.12 ECTS)
	Course total	125 hours (5 ECTS)
STUDENT PERFORMANCE EVALUATION <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, public presentation, laboratory work, clinical examination of patient, art interpretation, other</i> <i>Specifically-defined evaluation criteria are given, and if and where they are accessible to students.</i>	<i>Language of evaluation:</i> Greek. <i>Method of evaluation:</i> Final Project 30% Final Exams 70%	

(5) ATTACHED BIBLIOGRAPHY

1) Principal Reference: H. Douligieris, R. Navropodi, and E. Kopanaki, Web Technologies, (in Greek) 2) Additional References: Welling Luke, and Thomson Laura, PHP and MySQL Web Development, (in Greek)
