COURSE OUTLINE

(1) GENERAL

SCHOOL	OF SCIENCE
ACADEMIC UNIT	PHYSICS DEPARTMENT
LEVEL OF STUDIES	UNDERGRADUATE

COURSE CODE	507	SEMESTER	1

COURSE TITLE	INTERNET APPLICATIONS

INDEPENDENT TEACHING ACTIVITIES *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*	WEEKLY TEACHING HOURS	CREDITS
	4	4
Add rows if necessary. The organisation of teaching and the teaching methods used are described in detail at (d).		

COURSE TYPE *general background, special background, specialised general knowledge, skills development*	Specialised general knowledge / skills development
PREREQUISITE COURSES:	-
LANGUAGE OF INSTRUCTION and EXAMINATIONS:	GREEK
IS THE COURSE OFFERED TO ERASMUS STUDENTS	YES
COURSE WEBSITE (URL)	http://ecourse.uoi.gr/enrol/index.php?id=1405

(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*

In this course, students are offered introductory knowledge of building web pages and web sites. In particular, the students acquire basic knowledge in HTML and in CSS. A sufficient amount of time is spent on teaching of dynamic web-page creation using all available software tools. The above are consolidated with examples and exercises in the Lab (PC). In the final phase, the students have to complete a final project at home, developing a full web site using as many taught tools as possible. Specifically, with the completion of the course the student:

- **is able to use efficiently the windows operating system,**
- **is able to design and develop web pages using HTML with basic styling,**
- **is able to design and develop web pages using CSS,**
- **is able to design dynamic web pages using all available software tools, (multimedia, JavaScript, PHP), and**
- **is able to design and develop web sites.**

General Competences

Working independently. New-technology learning. Analysis and presentation of data, information, and multimedia.

(3) SYLLABUS

- History, basic knowledge, and use of the internet and the world-wide web (www).
- Introduction to HTML for web-page creation (basic text styling, graphics, tables, frames, and forms).
- Web-page styling using CSS
- Dynamic Web page creation (multimedia, Java applets, Java scripts, and PHP scripts)

(4) TEACHING and LEARNING METHODS - EVALUATION

DELIVERY *Face-to-face, Distance learning, etc.*	Face to Face teaching and laboratory assistance
USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY *Use of ICT in teaching, laboratory education, communication with students*	**Course web page, and PC use in the Laboratory**

TEACHING METHODS *The manner and methods of teaching are described in detail. 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.* *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*	*Activity*	*Semester workload*
	Lectures	20
	Laboratories	30
	Study and analysis of Bibliography	10
	Examinations-Final project	40
	Course total	*100*

STUDENT PERFORMANCE EVALUATION	

Description of the evaluation procedure *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* *Specifically-defined evaluation criteria are given, and if and where they are accessible to students.*	Student performance in the lectures (10%) Student performance in the laboratories (40%) Laboratory exams at the end of the course or/and final project (development of a full web site)-project presentation (50%)

(5) ATTACHED BIBLIOGRAPHY

- Suggested bibliography:
- Related academic journals:

- *N. Manthos, HTML and CSS, Lecture slides in Greek*
- E. Kastro, B. Hyslop, HTML5 και CSS3 , Greek edition, 2013
- L. Lemay, R. Colburn, HTML και CSS, Greek edition, 2011