COURSE OUTLINE

(1) GENERAL

SCHOOL					
ACADEMIC UNIT	SCHOOL OF ENGINEERING DEPARTMENT OF FINANCIAL AND MANAGEMENT				
ACADEMIC UNIT	ENGINEERING				
LEVEL OF STUDIES	UNDERGRADUATE				
COURSE CODE	ГЕ0102		SEMESTER	2	
COURSE TITLE	INTRODUCTION TO INFORMATICS				
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		
			3	4.5	
Add rows if necessary. The organisation	n of teaching d	and the			
teaching methods used are described in detail at (d).					
COURSE TYPE	General Bac	kground, Skills De	evelopment		
general background,					
special background, specialised					
general knowledge, skills					
development					
PREREQUISITE COURSES:					
LANGUAGE OF INSTRUCTION and	Greek				
EXAMINATIONS:					
IS THE COURSE OFFERED TO					
ERASMUS STUDENTS					
COURSE WEBSITE (URL)	http://www.fme.aegean.gr/el/node/1473				

(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

The course is addressed to undergraduate students the basic theory in Informatics. Specifically: Programming using C: Control Structures, Iteration Structures

Informatics theory: Memory Management, Central Processing Unit, Networks, Software Boolean Algebra: Functions, Circuits

Hecadecimal, Octal, Binary, Decimal Numbers conversion

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

Search for, analysis and synthesis of data and information, with the use of the necessary technology Adapting to new situations Working independently Team work Working in an international environment Criticism and self-criticism Production of free, creative and inductive thinking

(3) SYLLABUS

Introduction, Information Systems Software (System Software, Application Software) Computer Hardware, Computer Networks Numeral System (Hexadecimal, Binary, Decimal Numbers Conversion) Programming (Control Structures, Iteration Structures) Informatics theory (Memory Management, Central Processing Unit) Boolean Algebra

(4) TEACHING and LEARNING METHODS - EVALUATION

DELIVERY	Face to face			
Face-to-face, Distance learning, etc.				
USE OF INFORMATION AND	Composition and execution of programs and verification by			
COMMUNICATIONS TECHNOLOGY	the teacher			
Use of ICT in teaching, laboratory				
education, communication with				
students				
TEACHING METHODS	Activity	Semester workload		
The manner and methods of teaching	Lab hours	39		
are described in detail.	Homework	40		
Lectures, seminars, laboratory	Oral examinations	13		
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	Course total	92		
learning activity are given as well as				
the hours of non-directed study				
according to the principles of the ECTS				
STUDENT PERFORMANCE				
EVALUATION				
Description of the evaluation	Examination in written form at the end of the semester			
procedure				
	Program evaluation in the laboratory			
Language of evaluation, methods of				
evaluation, summative or conclusive,	Homework evaluation at the e-class interface			
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 avaluation aritaria				
Specifically-defined evaluation criteria are given, and if and where they are				
accessible to students.				

(5) ATTACHED BIBLIOGRAPHY

- Suggested bibliography:

Εισαγωγή στην επιστήμη των υπολογιστών, Behrouz Forouzan, Εκδόσεις Κλειδάριθμος ΕΠΕ Η επιστήμη των υπολογιστών: Μια ολοκληρωμένη παρουσίαση, J. Glenn Brookshear, Εκδόσεις Κλειδάριθμος ΕΠΕ

Εισαγωγή στην πληροφορική, Evans Alan, Martin Kendall, Poatsy Mary Anne, Εκδόσεις Κριτική ΑΕ

- Related academic journals: