COURSE OUTLINE

(1) GENERAL					
SCHOOL	SCHOOL OF ENGINEERING				
ACADEMIC UNIT	Department of Informatics and Computer Engineering				
LEVEL OF STUDIES	Undergraduate				
COURSE CODE	ICE-7111 SEMESTER 9th				
COURSE TITLE	Management Information Systems				
INDEPENDENT TEACHI	INDEPENDENT TEACHING ACTIVITIES				
if credits are awarded for separate	components of the course, WEEKLY				
e.g. lectures, laboratory exercise	ses, etc. If the credits are TEACHING CREDITS				
awarded for the whole of the course	e, give the weekly teaching HOURS				
hours and the tota	al credits				
	Lectures 2				
	Practice Exercises 2				
	Laboratories 2				
Add rows if necessary. The organisa	sary. The organisation of teaching and the 4 5				
teaching methods used are described in detail at (d).					
COURSE TYPE	Special Bac	kground			
general background,					
special background, specialised					
general knowledge, skills					
development					
PREREQUISITE COURSES:					
LANGUAGE OF INSTRUCTION	Greek				
and EXAMINATIONS:					
IS THE COURSE OFFERED TO	No				
ERASMUS STUDENTS					
COURSE WEBSITE (URL)	https://eclass.uniwa.gr/courses/CS144/				
(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

It is the deepening to the newest established Information Systems and especially to the newest established Information Systems for Business Administration and Organizations Administration. At the same time, it provides knowledge on the organization and operation of the respective organizations and businesses (interdisciplinarity). The application of the aforementioned concepts and knowledge is examined with reference to established categories of management information systems (such as Registry of Commitments, Electronic Prescribing, Personnel Leave Management, Land Registry Management).

Upon successful completion of the course the student will be able to:

• Designs Information Systems development projects (originality in the development and/or implementation of ideas)

• Supervises major projects for the development of information systems for business administration and organizations administration of all scales

• Prepares the feasibility study (handles complex issues and makes judgments about the necessity or not) for an information system

• Delivers the conclusions in writing and clearly, substantiating them with all the available information collected during the feasibility study (organization chart of the company, proposals

of users involved, recordings of interviews- meetings, etc.) • Solves problems that pre-existing systems (non-computerized or computerized) may not solve • Specifies the functional and non-functional requirements of a system as well as how to use it • Models the various aspects of a system (structure, behavior, interaction, situations, integrity limitations, architecture, etc.) • Designs the architecture of an information system using Structured Analysis techniques (data flow diagrams, entity-relationship diagrams) and/or object-oriented techniques • Designs the Database and the Interface of an information system				
General Competences				
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	Project planning and management			
and information, with the use of the	Respect for difference and multiculturalism			
necessary technology	Respect for the natural environment			
Adapting to new situations	Showing social, professional and ethical			
Decision-making	responsibility 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	Others			
environment				
Production of new research ideas				

- Decision-making
- Working independently
- Team work
- Working in an interdisciplinary environment
- Production of free, creative and inductive thinking
- Project planning and management

(3) SYLLABUS

- 1. Enterprise and Management Information System
- 2. Organization and Management Information System
- 3. Well Established Management Information System
- 4. Representation of the existing system's organization (the current situation)
- 5. Functional requirements
- 6. Scheduling, Project Management and Supervision
- 7. Technical representation of the MIS for the Registry of Commitments
- 8. Technical representation of the MIS for the Electronic Prescription
- 9. Technical representation of the MIS for the Personnel Leave Management
- 10. Technical representation of the MIS for the Land Registry Management
- 11. Shifting from conceptual models to relational databases

DELIVERY	Face to face				
Face-to-face, Distance learning, etc.					
USE OF INFORMATION AND	Software for designing DFDs and ERDs.				
COMMUNICATIONS TECHNOLOGY	Specialized systems design software.				
Use of ICT in teaching laboratory	Support of the learning process through the University's				
oducation communication with	e-learning platform.				
students					
TEACHING METHODS	Activity Somostor workload				
The manner and methods of	Lectures	26			
teaching are described in detail.	Practice exercises	13			
Lectures, seminars, laboratory	Laboratory practice 13				
practice, fieldwork, study and	Laboratory Project for a 40				
analysis of bibliography, tutorials,	case study Information				
placements, clinical practice, art	System				
workshop, interactive teaching,	Independent personal	33			
educational visits, project, essay	study				
writing, artistic creativity, etc.					
The student's study hours for each					
learning activity are given as well as					
the hours of non-directed study		405			
according to the principles of the	Lourse total	125			
ECTS					
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. (5) ATTACHED BIBLIOGRAPHY	 I. Written final exams (60%) that includes: Multiple choice questionaries Short-answer questions problem solving (design of Management Information Systems) II. Written work (design and composition of Information Systems) (40%) 				
- Suggested bibliography:					
1. Νικήτα Ν. Καρανικόλα. Καθιερωμένα Πληροφοριακά Συστήματα Επιγειρήσεων· Τεγνική					
Αποτύπωση. Εκδόσεις Νέων Τεγνολογιών Αθήνα 2012					
2. Κιουντούζης Ε., Μεθοδολογίες Ανάλυσης και Σνεδιασμού Πληροφοριακών Συστημάτων					
Εκδόσεις Ε. Μπένου, Αθήνα 1997.					
3. Δημητριάδης Α., Διρίκηση – Διαχείριση Πληροφοριακών Συστημάτων, Εκδόσεις Νέων					
Τεχνολογιών, Αθήνα, 2007.					
4. Δημητοιάδης Αντ., Διοίκηση – Διαχείριση Έργου (ProjectManagement), Εκδόσεις Νέων					
Τεγνολογιών Αθήνα 2009					
$\Delta = \frac{1}{2}$ Αμμητομάδης Αμτ. Αμοίκηση - Αμαγείουση Πληροφοραμακών Έργκων (ΓΤ					
DrojoctManagement) Excédere	Project Management) Εκδόσεις Νέων Τεννολονιών Αθήνα 2008				
Γισμετινίαπαgeπιθητι, Εκουσεις Ι	ει ομετινια παgement J, Εκουσεις Νέων Τεχνολογίων, Αθηνα 2008.				
_ 6. Δημητριασης Αντ., κοιλια Χρ., κωστα Αθ., Λογιστικά Πληροφοριακά Συστηματά: Από τη					

(4) TEACHING and LEARNING METHODS - EVALUATION

Θεωρία στην Πράξη, Εκδόσεις Νέων Τεχνολογιών, Αθήνα, 2009.

- 7. Γιαννακόπουλος Δ., Παπουτσής Ι., Διοικητικά Πληροφοριακά Συστήματα, Αθήνα, 2003.
- Παπαθανασίου Α.Ε., Στοιχεία Υπολογιστικών Συστημάτων, 3η Έκδοση, Εκδόσεις Μπένου, Αθήνα 2003
- 9. Avison D., Fitzgerald G., Information Systems Development: Methodologies, Techniques and Tools, 3rd ed., McGraw–Hill Education, UK, 2003.
- 10. Avison D.E., Fitzerald G., Information Systems Development: Methodologies, Techniques and Tools, 2nd ed.,McGraw-Hill, 1998.
- 11. Laudon K., Laudon J., Πληροφοριακά Συστήματα Διοίκησης, 6η έκδοση, Κλειδάριθμος, 2006.
- 12. Whitten J., Bentley L., Systems Analysis and Design Methods, McGraw Hill, 1998.
- 13. Whitten J.L., Bentley L.D., Dittman K., System Analysis and Design Methods, 6th ed., McGraw-Hill, 2004.
- 14. Dennis, Wixom, Roth, Systems Analysis and Design, 3rd ed., John Wiley & Sons, 2005.
- 15. Hoffer J.A., George J.F., Valacich J.S., Modern Systems Analysis & Design, 4th ed., Prentice Hall, 2005.
- 16. Hossein B., Modern Information Systems for Managers, Academic Press, 1997.
- 17. Graham C., Cobham D., Business Information Systems: Analysis, Design and Practice, 4th ed., Pitman Publishing, 2001.
- 18. Date C.J., An Introduction to Data Base Systems, 7th ed., Addison Wesley, 1999.
- 19. McLeod R. Jr, Management Information Systems, 8th ed., Prentice Hall, 2001.
- 20. Connolly T.M., Begg C.E., Database Systems: A Practical Approach to Design, Implementation and Management, 4th ed., Pearson Education, 2004.
- 21. Viescans J.L., Running Microsoft Access 2000, Microsoft Press, 1999.
- 22. Ward J., Griffiths P., Strategic Planning for Information Systems, 3rd ed., John Wiley & Sons, 2002.
- Related academic journals: