COURSE OUTLINE

1. GENERAL

SCHOOL	APPLIED ECONOMIC AND SOCIAL SCIENCES		
ACADEMIC UNIT	AGRIBUSINESS AND SUPPLY CHAIN MANAGEMENT		
LEVEL OF STUDIES	*Undergraduate*		
COURSE CODE	**5404**	**SEMESTER**	4th
COURSE TITLE	MANAGEMENT INFORMATION SYSTEMS		

INDEPENDENT TEACHING ACTIVITIES	**WEEKLY TEACHING HOURS**	**CREDITS**
Lectures	3	5
Laboratory exercises	2	

COURSE TYPE	General Background
PREREQUISITE COURSES	NO
LANGUAGE OF INSTRUCTION and EXAMINATIONS	Greek
IS THE COURSE OFFERED for ERASMUS STUDENTS?	YES (in English)
COURSE WEBSITE (URL)	https://mediasrv.aua.gr/eclass/modules/auth/opencourses.php?fc=123

2. LEARNING OUTCOMES

Learning Outcomes

The aim of the course is:

The course aims to familiarize students with management information systems and their role in decision making process and the achievement of competitive advantage. The course also focuses on information systems development methods, project management for the procurement/ development of information systems and the implementation of services of information systems to solve business problems.

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

- recognize the types of information systems and the suitability of each system in solving specific business problems
- explain the role of information systems in competitive advantage achievement
- explain the business benefits from applying intelligent techniques in decision-making and knowledge management
- describe the basic methodologies used for developing information systems
- evaluate information systems
- use project management tools for information systems procurement/development

- implement services as subsystems of information systems

General Competences

Adapting to new situations

Decision-making

Working independently

Teamwork

Working in an international environment

Working in an interdisciplinary environment

Production of new research ideas Teamwork

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

3. SYLLABUS

1. Basic concepts and importance of information systems in enterprises
2. Information Systems in the Enterprise: Basic elements of an enterprise, Information systems categories, Operation of Information Systems in Enterprises
3. Management of software and hardware technology in the enterprise
4. Information Systems and Business Strategy: Achieving Competitive Advantage, Model of Competitive Forces, Value Chain Model
5. Complex examples of achieving competitive advantage with information systems
6. Decision Making: Decision Types, Decision Making Process, Decision Making Systems (DSS - ESS - GDSS), Intelligent Decision Making Systems
7. Knowledge Management: Knowledge Management Systems, Knowledge Work Systems (KWS)
8. Information Systems Development: Information System Life Cycle Analysi
9. Information Systems Development: Collecting and Processing of User Requirements, Developing Models and Designing Systems

10. Complex examples in the development of Information Systems
11. Evaluation of information systems
12. Project management for the procurement/ development of information systems
13. Ethical, privacy and security issues in information systems.

The laboratory part of the course covers the following topics:

Laboratory exercises focus on the analysis, design and implementation of subsystems of information systems that solve practical problems.

A combination of teaching and learning methods will be used, aiming at the active participation of the students and the practical application of the thematic units under examination; there will also be lectures using audiovisual media, discussions, and analyses of case studies on real business issues, experiential (group) activities, as well as projections of relevant videos. The students will also undertake an individual or group project. Furthermore, articles, audiovisual lecture materials, web links/addresses, useful information, case studies and exercises for further practice are posted in digital form on the AUA Open e-Class platform.

4. TEACHING and LEARNING METHODS - EVALUATION

DELIVERY	Face -to-face, Distance learning
USE OF INFORMATION and COMMUNICATIONS TECHNOLOGY	• Support of the learning process through the University's AUA Open eClass platform (integrated e-Course Management System) • Support of lectures using presentation software • Use of audiovisual material • Use of web applications **Communication with students**: face-to-face at office hours, email, eclass platform
TEACHING METHODS	
STUDENT PERFORMANCE EVALUATION	The evaluation process is in the language that the course is taught (Greek or English) and consists of:

Activity	*Workload*
Lectures (direct)	39
Laboratory Practice	26
Essay Writing	20
Autonomous study	36
Advisory Support	0,5
Examination	2
Laboratory Examination	2
Total (About 25 hours of study per ECTS)	***125,5***

	i. Compulsory written final examination at the end of the semester (weighting factor **70**% at least) which may includes: • Multiple choice questionnaires • Open-ended questions • Problem solving • Oral examination **Evaluation criteria:** correctness, completeness, clarity ii. Optional written exam or essay during the semester (weighting factor 30%) which may includes: • Multiple choice questionnaires • Open-ended questions • Problem solving • Essay/report • Oral examination **Evaluation criteria:** correctness, completeness, clarity **Special learning difficulties:** Students with **special learning difficulties** in writing and reading (as they are certified and characterized by a competent body) are examined based on the procedure provided by the Department. **Specifically-Defined Criteria:** The evaluation criteria are made known during the first lesson and are clearly stated on the course website and the AUA Open e-class platform. The answers to the exam questions are posted on the AUA Open e-Class platform after the exam. The students are allowed to see their exam paper after its grading (during the announced office hours) and receive explanations about the grade they received.

5. ATTACHED BIBLIOGRAPHY

Suggested Bibliography in Greek Language:

- Wallace, P. (2014). «Πληροφοριακά Συστήματα Διοίκησης», Εκδ. Κριτική.
- Βεσκούκης, Β.(2015). Στοιχεία τεχνολογίας λογισμικού. [ηλεκτρ. βιβλ.] Αθήνα: Σύνδεσμος Ελληνικών Ακαδημαϊκών Βιβλιοθηκών. Διαθέσιμο στο: http://hdl.handle.net/11419/3160
- Δουληγέρης, Χ., Μητρόπουλος, Σ. (2015). Πληροφοριακά συστήματα στο διαδίκτυο. [ηλεκτρ. βιβλ.] Αθήνα:Σύνδεσμος Ελληνικών Ακαδημαϊκών Βιβλιοθηκών. κεφ 1. Διαθέσιμο στο: http://hdl.handle.net/11419/3970
- Καρανικόλας, Ν. (2012). Καθιερωμένα Πληροφοριακά Συστήματα Επιχειρήσεων. Τεχνική Αποτύπωση, Εκδόσεις Νέων Τεχνολογιών.
- Μητάκος, Θ., (2015). Πληροφοριακά συστήματα διοίκησης. [ηλεκτρ. βιβλ.] Αθήνα: Σύνδεσμος Ελληνικών Ακαδημαϊκών Βιβλιοθηκών. Κάλλιπος. Διαθέσιμο στο: http://hdl.handle.net/ 11419/748
- Laudon, K., Laudon J. (2015). Πληροφοριακά Συστήματα Διοίκησης, 11η Αμερικάνικη Έκδοση, Κλειδάριθμος.
- Malaga R.A., (2004). Εισαγωγή στην Τεχνολογία Πληροφοριακών Συστημάτων, Εκδ. Γκιούρδας,

Suggested Bibliography in English Language:

- Wallace, P. (2021). Introduction to Information Systems, 4th Edition, Johns Hopkins University.

Related academic Journals:

- ACM Transaction on Management Information Systems
- European Journal of Information Systems
- IEEE Transactions on Software Engineering
- Journal of Management Information Systems
- Journal of Strategic Information Systems
- International Journal of Enterprise Information Systems
- International Journal of Business Information Systems
- Journal of Enterprise Information Management

Instructor's Notes