

## 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	6
Laboratory exercises		2	
COURSE TYPE	Special Background – Skills Development		
PREREQUISITE COURSES	NO		
LANGUAGE OF INSTRUCTION and EXAMINATIONS	Greek		
IS THE COURSE OFFERED for ERASMUS STUDENTS?	YES (in English)		
COURSE WEBSITE (URL)	<a href="https://mediasrv.aua.gr/eclass/modules/auth/opencourses.php?fc=123">https://mediasrv.aua.gr/eclass/modules/auth/opencourses.php?fc=123</a>		

### 2. LEARNING OUTCOMES

Learning Outcomes
<p>The aim of the course is:</p> <p>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.</p> <p><b>Upon successful completion of the course, the student will be able to:</b></p> <ul style="list-style-type: none"> <li>• recognize the types of information systems and the suitability of each system in solving specific business problems</li> <li>• explain the role of information systems in competitive advantage achievement</li> <li>• explain the business benefits from applying intelligent techniques in decision-making and knowledge management</li> <li>• describe the basic methodologies used for developing information systems</li> <li>• evaluate information systems</li> <li>• use project management tools for information systems procurement/development</li> </ul>

- 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 Analysis
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**

<b>DELIVERY</b>	Face -to-face, Distance learning	
<b>USE OF INFORMATION and COMMUNICATIONS TECHNOLOGY</b>	<ul style="list-style-type: none"><li>• Support of the learning process through the University's AUA Open eClass platform (integrated e-Course Management System)</li><li>• Support of lectures using presentation software</li><li>• Use of audiovisual material</li><li>• Use of web applications</li></ul> <p><b>Communication with students:</b> face-to-face at office hours, email, eclass platform</p>	
<b>TEACHING METHODS</b>	<i>Activity</i>	<i>Workload</i>
	Lectures (direct)	39
	Laboratory Practice	26
	Essay Writing	20
	Autonomous study	36
	Advisory Support	0,5
	Examination	2
	Laboratory Examination	2
	<i>Total (About 25 hours of study per ECTS)</i>	<b>125,5</b>
<b>STUDENT PERFORMANCE EVALUATION</b>	The evaluation process is in the language that the course is taught (Greek or English) and consists of:  i. <b>Compulsory written final examination at the end of the semester (weighting factor 70% at least) which may includes:</b> <ul style="list-style-type: none"><li>• Multiple choice questionnaires</li><li>• Open-ended questions</li></ul>	

	<ul style="list-style-type: none"> <li>● <b>Problem solving</b></li> <li>● <b>Oral examination</b>  <b>Evaluation criteria:</b> correctness, completeness, clarity</li> </ul> <p>ii. Optional written exam or essay during the semester (weighting factor 30%) which may includes:</p> <ul style="list-style-type: none"> <li>● Multiple choice questionnaires</li> <li>● Open-ended questions</li> <li>● Problem solving</li> <li>● Essay/report</li> <li>● Oral examination</li> </ul> <p><b>Evaluation criteria:</b> correctness, completeness, clarity</p> <p><b>Special learning difficulties:</b></p> <p>Students with <b>special learning difficulties</b> in writing and reading (as they are certified and characterized by a competent body) are examined based on the procedure provided by the Department.</p> <p><b>Specifically-Defined Criteria:</b></p> <p>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</p>
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## 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***