COURSE LAYOUT

1. GENERAL

SCHOOL	APPLIED ECONOMICS AND SOCIAL SCIENCES
DEPARTMENT	AGRICULTURAL ECONOMICS AND RURAL DEVELOPMENT
STUDY LEVEL	*Undergraduate – elective course*

COURSE CODE	**3710**	**SEMESTER**	8th

COURSE TITLE	MANAGEMENT INFORMATION SYSTEMS

INDEPENDENT TEACHING ACTIVITIES	WEEKLY TEACHING HOURS	ECTS
Theory: Lectures	3	3
Laboratory: Use of Software Tools	2	2
Total	**5**	**5**

COURSE TYPE	Scientific Area (M4.017)
PREREQUISITES	
LANGUAGE	Greek
IS THE COURSE OFFERED forERASMUS STUDENTS?	No
COURSE WEB PAGE	https://oeclass.aua.gr/eclass/courses/AOA253/

2. LEARNING OUTCOMES

Learning Outcomes
Upon successful completion of this course, the student will: - understand what an IS exactly is and how it works, - understand the role of IS in business management, - distinguish three different dimensions in any IS (human resources, technology, processes), - know the basic technologies of IS with regards to Hardware, Software, Network Infrastructures and Databases, - know the basic features and will evaluate the benefits of using cloud computing, - distinguish the concept of (primary) data from the concepts of information and knowledge, - be familiar with the basic types of knowledge management systems and be able to analyze the business information value chain, - explain why the information systems are so important in business, - know the stages of development of an Information System and will be able to participate as a team member in the Analysis and Design of a MIS, - become familiar with methodologies and tools for project management, especially regarding the development of an IS, - identify the different types of management decisions and the corresponding decision-making process, - understand the role and functions of a Business Intelligence System within an organization, - evaluate the effectiveness of a business process and be able to arrange its redesign, - understand the concept of vulnerability of IS, recognize and assess the various categories of risk and be accustomed to the security policies that can be adopted, - be able to make decisions on ethical or societal issues related to the use of IS.

General Competenses
- Search, analysis and synthesis of data and information by use of the necessary technologies.
- Decision making.
- Individual work.
- Team work.
- Work in a multidisciplinary environment.
- Design and management of projects.
- Advancement of free, creative and deductive thinking.

3. COURSE CONTENT

Theory

1. Basic principles of systems theory. Role, categories and subsystems of IS. Frameworks for the development of IS.
2. e-Business – How businesses utilize Information Systems. Achieving competitive advantage through IS.
3. Analysis - Design - Implementation of IS (Feasibility Study, Analysis of an existing system, Design of the new system, Implementation and testing of the new system).
4. Techniques for the analysis and design of IS.
5. Technological Infrastructure of IS (Hardware, Software, Databases, Telecommunications, Networks and the Internet). IS based on Cloud computing.
6. Business Intelligence – Databases and Information Management.
7. Improving decision making and knowledge management (types of decisions, decision-making process). Decision Support Systems - Executive Support Systems, Group Decision Support Systems. Intelligent Systems in decision support.
8. IS Security.
9. Project Management.
10. Ethics and societal issues in IS.

Laboratory

1. Use of Project Management Software tools.

4. TEACHING and LEARNING METHODS - Evaluation

TEACHING METHOD	In Classroom and in Laboratory (face-to-face) or Distance Learning (if required)
USE OF INFORMATICS and COMMUNICATION TECHNOLOGIES	• Exploitation of Information and Communication Technologies in teaching, in laboratory training and in the communication with students. • Use of dedicated software. • Use of integrated e-learning system and/or alternatively through MS Teams. • Communication with students via open eclass platform and e-mail.
TEACHING ORGANISATION	*Activity* / *Work Load* table below

Activity	Work Load
Lectures	39 hours
Laboratory work	26 hours
Group and/ or individual projects	13 hours
Individual Study	47 hours
Total contact hours and training	***125 h (5 ECTS)***

STUDENTS EVALUATION	**I. Theory**
	Final Exam, written or oral, of increasing difficulty, which may include multiple choice test, questions to be answered in brief, questions to analyze a topic, and judgment questions.
	Marking Scale: 0-10.
	Minimum Passing Mark: 5.
	II. Laboratory
	Final Exam, hands on computer, of the software tools taught. The performance of the trainees at the laboratory exercises as well as the individual or group project assigned to them during the semester will be evaluated.
	Marking Scale: 0-10.
	Minimum Passing Mark: 5.
	The final Course mark is the average of the marks on Theory and Lab.
	The assessment criteria are explicitly defined and students can have access to their written examination and software records.
	If required, students' evaluation can also be realized remotely through the eClass platform for the written examination, and through video conferencing tools for presentation of projects or oral examinations.

5. BIBILIOGRAPHY

-Related Literature:
- Laudon, K.C, Laudon, J. P., 2021. Πληροφοριακά Συστήματα Διοίκησης, Εκδόσεις Κλειδάριθμος.
- Kroenke M.David, Boyle J.Randall, 2016. Πληροφοριακά Συστήματα Διοίκησης στην Πράξη, BROKEN HILL PUBLISHERS LTD.
- Wallace, P., 2022. Πληροφοριακά Συστήματα Διοίκησης, Εκδόσεις Κριτική ΑΕ.
- Μαδυτινός, Δ., 2021. Διοίκηση Επιχειρήσεων, Τεχνολογία και Συστήματα Πληροφοριών Διοίκησης.

-Related Scientific Journals:
- Information Systems Journal, Wiley-Blackwell Publishing
- Information Systems, Elsevier
- Information Systems Research, Institute for Operations Research and the Management Sciences (INFORMS)
- Journal of Management Information Systems, M.E. Sharpe
- European Journal of Information Systems, Taylor and Francis

6. TEACHING STAFF

- Sotirios Karetsos, Assistant Professor
- Konstantinos Demestichas, Assistant Professor