**COURSE LAYOUT**

1. **GENERAL**

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

1. **LEARNING OUTCOMES**

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| **Learning Outcomes** |
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| Upon successful completion of this course, the student will: * understand what an Information System exactly is and how it works,
* understand the role of Information Systems in business management,
* distinguish three different dimensions in any Information System (technology, organization, management & human resources),
* know the basic technologies of Information Systems with regards to Hardware, Software, Network Infrastructures and Databases,
* 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 Management Information System,
* become familiar with methodologies and tools for project management, especially regarding the development of an Information System,
* understand the concept of vulnerability of Information Systems, recognize and assess the various categories of risk and be accustomed to the security policies that can be adopted,
* identify the different types of management decisions and the corresponding decision-making process,
* understand the role and functions of a Business Intelligence System and a Decision Support System within an organization,
* 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,
* evaluate the effectiveness of a business process and be able to arrange its redesign,
* be able to make decisions on ethical or societal issues related to the use of Information Systems.
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| **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.
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1. **COURSE CONTENT**

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| **Theory**1. Basic principles of systems theory. Role, categories and subsystems of Information Systems. Frameworks for the development of Information Systems.
2. e-Business – How businesses utilize Information Systems. Achieving competitive advantage through Information Systems.
3. Analysis - Design - Implementation of Information Systems (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 Information Systems.
5. Technological Infrastructure of Information Systems (Hardware, Software, Databases, Telecommunications, Networks and the Internet). Information Systems 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. Information Systems Security.
9. Project Management.
10. Ethics and societal issues in Information Systems.

**Laboratory**1. Analysis and Design of educational Information Systems.
2. Exploitation of Project Management Software tools.
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1. **TEACHING and LEARNING METHODS - Evaluation**

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| **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.
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| **TEACHING ORGANISATION** |

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| *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)*** |

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| **STUDENTS EVALUATION** | **Ι. Theory**Final Exam, written or oral,of increasing difficulty, which may include Multiple choice test, Questions of brief answer, Questions to develop a topic, Judgment questions and Exercise solving.Marking Scale: 0-10.Minimum Passing Mark: 5. **ΙΙ.** **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. |

1. **BIBILIOGRAPHY**

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| *-****Related Literature:**** Laudon, K.C., Laudon, J. P., 2014. Management Information Systems, Kleidarithmos Publications.
* Kroenke M.David, Boyle J.Randall, 2016. Management Information Systems in Practice, BROKEN HILL PUBLISHERS LTD.
* Wallace, P., 2014. Management Information Systems, Kritiki Publications SA.
* Fitsilis, P., 2015. Modern business information systems. [digital book] Athens: Association of Greek Academic Libraries. Available at: http://hdl.handle.net/11419/2256
* Mitakos, Th., 2015. Management information systems. [digital book] Athens: Association of Greek Academic Libraries. Available at: http://hdl.handle.net/11419/748
* Douligeris, Ch., Mitropoulos, S., 2015. Information systems on the internet. [digital book] Athens: Association of Greek Academic Libraries. Available at: http://hdl.handle.net/11419/3969

***-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
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