**COURSE LAYOUT**

**ELECTRONIC GOVERNMENT AND OPEN DATA**

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** | **387** | **SEMESTER** | | 9th | |
| **COURSE TITLE** | ELECTRONIC GOVERNMENT AND OPEN DATA | | | | |
| **INDEPENDENT TEACHING ACTIVITIES** | | | **WEEKLY TEACHING HOURS** | | **ECTS** |
| **Theory:** Lectures | | | 2 | | 2 |
| **Laboratory:** Use of Software Tools | | | 3 | | 3 |
| **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/ | | | | |

1. **LEARNING OUTCOMES**

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| **Learning Outcomes** | |
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| Upon successful completion of this course, the student will:   * understand the conceptual and technological background of the use of information and communication technologies (ICT) in public administration, * understand the key components of e-Government, * recognize the key challenges of transition to e-Government, * understand the structural features of e-Government applications, * assess the current level of operation of the public administration and recognize room for improvement, * utilize e-Government services of rural areas, * evaluate existing e-Government initiatives in rural areas, * know basic technologies of structured documents, data description and knowledge representation, * be able to use of open data. | |
| **General Competenses** |
| * Search, analysis and synthesis of data and information by use of the necessary technologies. * Individual work. * Team work. * Work in a multidisciplinary environment. * Design and management of projects. * Advancement of free, creative and deductive thinking. | |

1. **COURSE CONTENT**

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| **Theory**   1. Introduction to e-Government. 2. Categories and models of e-Government. 3. Open government and e-Democracy 4. Mobile government. Social networks in public administration and in service provision to citizens and businesses. 5. Smart cities. 6. Redesign of processes in public administration and new technologies. 7. Security and privacy of e-Government. Digital authentication framework. 8. e-Government services with emphasis on rural areas. 9. Evaluation of e-Government services. 10. Semantic Web and Open Data. 11. Semantic Web, architectures and tools. 12. Open government data: administrative procedures and ICT.   **Laboratory**   1. Exploitation of online tools, and free and open source software. 2. Ontologies (OWL) - Development of ontologies. 3. Structured document technologies, data description and knowledge representation (XML, RDF, RDFS, OWL). 4. Navigation to open interconnected data. 5. Case studies of e-Government in the rural areas. |

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. |
| **TEACHING ORGANISATION** | |  |  | | --- | --- | | *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** | **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, Κ., Traver, C., 2018. Electronic Commerce 2018: business, technology, society. Papasotiriou Editions, 14th edition. * Schneider G. P., 2015. E-Commerce. Ch. Giourdas Publications. * Stefanidakis, M., Andronikos, Th., Papadakis, I., 2015. Open connected data and applications. [digital book] Athens: Association of Greek Academic Libraries. Available at: http://hdl.handle.net/11419/1338 * Poulos, M., 2015. Semantic processing of information. [digital book] Athens: Association of Greek Academic Libraries. Available at: http://hdl.handle.net/11419/2854 * Stamou, G., 2015. Representation of ontological knowledge and reasoning. [digital book] Athens: Association of Greek Academic Libraries. Available at: http://hdl.handle.net/11419/4225 * Apostolakis, I., Loukis, E., Halaris, I. 2008. Electronic Public Administration: Organization, Technology and Applications, Papazisis Publications. * Pomportsis, A., 2006. Introduction to e-Government, Tziolas Publications.   ***-Related Scientific Journals:***  Electronic Government   * Government Information Quarterly, Elsevier * Electronic Government, Interscience * International Journal of Electronic Government Research * Local Government Studies * Transforming Government: People, Process and Policy * European Journal of Government and Economics   Open Data   * Journal of Web Semantics, Elsevier * Knowledge and Information Systems, Springer * Semantic Web Journal, IOS press * International Journal on Semantic Web and Information Systems, IGI Global * Open Journal of Semantic Web, OJSW * Knowledge Engineering Review, KER |