**COURSE LAYOUT**

1. **GENERAL**

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| **SCHOOL** | APPLIED ECONOMIC AND SOCIAL SCIENCES | | | | |
| **DEPARTMENT** | AGRICULTURAL ECONOMICS & RURAL DEVELOPMENT | | | | |
| **STUDY LEVEL** | *Undergraduate* | | | | |
| **COURSE CODE** | **274** | **SEMESTER** | | 9 | |
| **COURSE TITLE** | ECONOMETRICS II | | | | |
| **INDEPENDENT TEACHING ACTIVITIES** | | | **WEEKLY TEACHING HOURS** | | **ECTS** |
| Lectures | | | 5 | | 5 |
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| **COURSE TYPE** | Scientific Area, Development of skills | | | | |
| **PREREQUISITES:** | Microeconomic theory I, Macroeconomic Theory I, Econometrics | | | | |
| **LANGUAGE** | Greek | | | | |
| **IS THE COURSE OFFERED for ERASMUS STUDENTS?** | No | | | | |
| **COURSE WEB PAGE** | http://openeclass.aua.gr/ | | | | |

1. **LEARNING OUTCOMES**

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| **Learning Outcomes** | |
| This course is a continuation of the Econometrics course where the theory extends to non-linear econometric models, dynamic econometric models, models of simultaneous equations and time series econometrics.  The aim of the course is students to acquire econometric analysis skills that will assist to answer questions posed by microeconomics and macroeconomics.  Upon successful completion of the course the student will be able to:   * Understand that different econometric models depend on the nature of the dependent variable and the type of data and when it is appropriate to use each of the models * Have knowledge regarding basic econometric analysis of microeconomic and macroeconomic data * Be able to interpret results and respond through econometric analysis to key issues raised by microeconomics and macroeconomics   The applications of these econometric methods are expected to:  • improve the student's perception of theoretical issues as well as their judgment for problem solving especially in the rural economy.  • are able to communicate information, results and solutions based on the application of appropriate econometric methods to both specialized and non-specialized audiences.  • In addition, to acquire valuable infrastructure knowledge in econometrics that will undoubtedly be needed by those who decide to continue with postgraduate / doctoral studies and research. | |
| **General Competenses** |
| * Search, analysis and synthesis of data and information * Autonomous Work * Decision making * Exercise criticism and self-criticism * Promoting free, creative and inductive thinking | |

1. **COURSE CONTENT**

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| 1. Non-linear regression modeling 2. Qualitative variables and regression analysis 3. Panel data time series regression models 4. Dynamic econometric models    1. Autoregressive models    2. Distributed lags models 5. Simultaneous equations models 6. Identification problem    1. Simultaneous equations methods 7. Time series econometrics |

1. **TEACHING and LEARNING METHODS - Evaluation**

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| **TEACHING METHOD** | In class |
| **USE OF INFORMATICS and COMMUNICATION TECHNOLOGIES** | * Learning process support through the electronic platform e-class * Presentation of the course with Power-Point slides |
| **TEACHING ORGANISATION** | |  |  | | --- | --- | | *Activity* | *Work Load* | | Lectures | 65 | | Independent study | 27 | | Homework | 33 | |  |  | |  |  | |  |  | |  |  | |  |  | |  |  | | *Course total*  *(25 hours of student work load per ECTS)* | ***125*** | |
| **STUDENTS EVALUATION** | Written final exams (100%) |

1. **BIBLIOGRAPHY**

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| Suggested bibliography:   * Studenmund (2016) Οικονομετρία, Πρακτικός οδηγός χρήσης. Broken Hill Publishers. Λευκωσία, Κύπρος * Woolridge, J. (2011). Εισαγωγή στην Οικονομετρία. Εκδόσεις Παπαζήσης, Αθήνα   Relative scientific journals:   * Journal of Econometrics |