**COURSE LAYOUT**

1. **GENERAL**

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| **SCHOOL** | APPLIED ECONOMICS AND SOCIAL SCIENCES | | | | |
| **DEPARTMENT** | AGRICULTURAL ECONOMICS & RURAL DEVELOPMENT | | | | |
| **STUDY LEVEL** | *Undergraduate* | | | | |
| **COURSE CODE** | **139** | **SEMESTER** | | 7th | |
| **COURSE TITLE** | ECONOMETRICS | | | | |
| **INDEPENDENT TEACHING ACTIVITIES** | | | **WEEKLY TEACHING HOURS** | | **ECTS** |
| Lectures | | | 5 | | 5 |
|  | | |  | |  |
|  | | |  | |  |
| **COURSE TYPE** | Scientific area | | | | |
| **PREREQUISITES** |  | | | | |
| **LANGUAGE** | Greek | | | | |
| **IS THE COURSE OFFERED for ERASMUS STUDENTS?** | No | | | | |
| **COURSE WEB PAGE** | <https://mediasrv.aua.gr/eclass/courses/AOA244/> | | | | |

1. **LEARNING OUTCOMES**

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| **Learning Outcomes** | |
| This course introduces students to the concept of data analysis using econometric tools in order to answer relevant economic problems using primary and secondary data.  By successfully completing this course the student will:   * Will have a good knowledge and understanding of the basic theory around simple and multiple regression and will be able to estimate a regression using basic computer software * Will understand the consequences of violations of basic assumptions and the alternative ways available for estimation. * Will understand the role and usefulness of qualitative variables and how these can be used in an econometric model. * Will be able to interpret results and evaluate economic significance, examine the effect of economic policies and/or make predictions. * will have the ability to analyze and interpret patterns of data by using econometric tools that can be used in making judgements about related socio-economic problems. | |
| **General competences** |
| * Search, analyze and synthesize data and information by using appropriate software * Autonomous work * Decision making * Advance of free thinking and reasoning | |

1. **COURSE CONTENT**

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| * Simple regression * Multiple regression * Specification errors * Non-linear specifications * Multicollinearity * Heteroskedasticity * Autocorrelation * Dummy variables |

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

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| **TEACHING METHOD** | In class |
| **USE OF INFORMATICS and COMMUNICATION TECHNOLOGIES** | * e-class platform * Power-Point slides * Communication with students using eclass and email |
| **TEACHING ORGANISATION** | |  |  | | --- | --- | | *Activity* | *Work Load* | | Lectures | 60 | | Study at home | 65 | |  |  | |  |  | |  |  | |  |  | |  |  | |  |  | | ***Course total***  ***(25 hours of student work load per ECTS)*** | ***125*** | |
| **STUDENTS EVALUATION** | Written final exams (100%) including:   * + - Multiple choice questions     - Solving problems |

1. **BILBIOGRAPHY**

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| Suggested:   * Gujarati, D.N. and Porter, D. (2012) Basic Econometrics. 5th edition, Publisher: Tziola. * Studenmund A. (2016) Using Econometrics: A Practical Guide. 1st edition, BROKEN HILL PUBLISHERS LTD.     Scientific journals:   * Journal of Econometrics * Econometric Reviews * Econometrics Journal * Econometrica * Econometric Theory |