**COURSE LAYOUT**

1. **GENERAL**

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| **SCHOOL** | APPLIED ECONOMICS AND SOCIAL SCIENCES |
| **DEPARTMENT** | AGRICULTURAL ECONOMICS AND RURAL DEVELOPMENT |
| **STUDY LEVEL** | Undergraduate |
| **COURSE CODE** | **319** | **SEMESTER** | 7th  |
| **COURSE TITLE** | Input-Output Analysis |
| **INDEPENDENT TEACHING ACTIVITIES** | **WEEKLY TEACHING HOURS** | **ECTS** |
| LECTURES  | 5 | 5 |
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| **COURSE TYPE** | Scientific area, Skill development |
| **PREREQUISITES** |  |
| **LANGUAGE** | Greek  |
| **IS THE COURSE OFFERED forERASMUS STUDENTS?** | No |
| **COURSE WEB PAGE** | Course material will be presented, together with other information and announcements, at the e-class site of the university. The relevant link is available at the site of the university (www.aua.gr). |

1. **LEARNING OUTCOMES**

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| **Learning Outcomes** |
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| Input-Output Analysis is a well-established method for economic analysis and planning. The objective of this course is to introduce students to the basic concepts and tools of the Input-Output Analysis as well as to empirical applications of the method for examining the production structure of an economic system (national, regional), evaluating economic development scenarios, analysing the effects of production activities on environment and energy consumption and forecasting at both macroeconomic and sectoral level. Upon successful completion of the course students will be able to:* understand the structure of the input-output tables, which are part of the national accounts, and their transformation into linear models for estimating sectoral multipliers
* construct regional, environmental and energy input-output models
* analyse and evaluate the structural changes of an economy
* estimate the effects of policy measures in terms of output and income generation and the creation of new jobs.
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| **General Competenses** |
| * Search, analyze and synthesize data and information by using appropriate software
* Decision making
* Autonomous work
* Generation of new research ideas
* Critique and self-critique
* Advance of critical thinking and reasoning
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1. **COURSE CONTENT**

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| 1. Input-Output Tables and System of National Accounts2. Demand-driven Input-Output Model3. Output, Income and Employment Multipliers4. Price Model 5. Structural Changes and Key Sectors6. Dynamic Input-Output Model7. Regional Input-Output Model8. Inter-regional and Multi-regional Input-Output Model9. Environmental Input-Output Model10. Energy Input-Output Model11. Tourism & Input-Output Analysis12. Social Accounting Matrices  |

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

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| **TEACHING METHOD** | Lectures and meetings with students |
| **USE OF INFORMATICS and COMMUNICATION TECHNOLOGIES** | Use of electronic means of teaching (e.g., PowerPoint). Individual and team meetings with students will take place using also appropriate software (e.g., Microsoft Teams, Skype). |
| **TEACHING ORGANISATION** |

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| *Activity* | *Work Load* |
| Lectures  | 65 h |
| Study at home | 33 h |
| Study of databases and additional work  | 27 w |
| Course Total | **125h** **(ECTS)** |

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| **STUDENTS EVALUATION** | Written final exam at the end of the semester, and possibly an optional mid-term exam. |

1. **BIBILIOGRAPHY**

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| The main textbook for the course is the book of Ch. Economides ‘‘Introduction to Input-Output Analysis and System’’ (in Greek) but also the classic book by Miller and Blair ‘‘Input-Output Analysis: Foundations and Extensions’’ will be used too. Additionally, scientific papers on empirical application of the Input-Output Analysis will be also used. Such publications can be found in journals such as: Economic Systems Research, Structural Change and Economic Dynamics, Journal of Economic Structures.  |