



Course Code ECON-496	Course Title Applied Econometrics	Credits (ECTS) 6
Department Finance and Economics	Semester Fall	Prerequisites MATH-221; ECON-261; ECON-262
Type of Course Elective	Field Economics	Language of Instruction English
Level of Course 1 st Cycle	Year of Study 3 rd – 4 th	Lecturer(s) Dr Sapuric Svetlana Mr Marios Christou
Mode of Delivery Face-to-face	Work Placement N/A	Co-requisites None
Recommended Optional Programme Components: N/A		

Objectives of the Course:

The main objectives of the course are to:

- Offer an introduction to econometric theory and techniques.
- Introduce linear regression and the application of such techniques to variety of real problems.
- Analyze and use of econometric tools and packages such as SPSS.

Learning Outcomes:

After completion of the course students are expected to be able to:

- Provide an overview of the econometric approach to economic theory.
- Define how econometrics are used for testing economic theory and models
- Create simple econometric models and analyse them.
- Explain the econometric modeling process in addressing the economic theory.

Course Contents:

1. Introduction.
2. Review of Probability Distributions.
3. Statistical Inference and Hypothesis Testing.
4. Two Variable Model Hypothesis Testing.
5. The Linear Regression Model
6. The Multiple Regression Model Hypothesis Testing.
7. Dummy Variables.
8. Multicollinearity.
9. Heteroscedasticity.
10. Autocorrelation.
11. Single Equation Regression Models.
12. Simultaneous Equation Models.

Learning and Teaching Methods:

Lectures, Tutorials, Case studies, Practical Exercises
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Assessment Methods:

Assignments, Midterm, Final Exam.

Required Textbooks/Reading:

Authors	Title	Publisher	Year	ISBN
Brooks, C	<i>Introductory Econometrics</i>	Cambridge University Press	2008	