



## Course Syllabus

<b>Course Code</b>	<b>Course Title</b>	<b>ECTS Credits</b>
ECON-496	Applied Econometrics	6
<b>Prerequisites</b>	<b>Department</b>	<b>Semester</b>
ECON-261, ECON-262, MATH-220	Accounting, Economics and Finance	Fall/Spring
<b>Type of Course</b>	<b>Field</b>	<b>Language of Instruction</b>
Elective	Finance	English
<b>Level of Course</b>	<b>Lecturer(s)</b>	<b>Year of Study</b>
1 <sup>st</sup> Cycle	Dr Svetlana Sapuric	3 <sup>rd</sup> and 4 <sup>th</sup>
<b>Mode of Delivery</b>	<b>Work Placement</b>	<b>Corequisites</b>
Face-to-face	None	None

### Course Objectives:

The main objectives of the course are to:

- give students experience of using statistical methods important in economics and other business subjects, and to build skill and confidence in the use of those methods
- provide skills in regression essential for understanding much of the literature of economics, finance, and empirical studies in other areas of business,
- introduce the nature of empirical studies in economics and business,
- examine the simple regression and multiple regression models in depth and in a range of applications. Careful attention is given to the interpretations of regression results and hypothesis testing. These methods are important tools in production, marketing, finance, engineering, and economics.

### Learning Outcomes:

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

1. use regression models in different applications,
2. critically examine reported regression results in empirical research in economics and other business studies
3. identify and deal with a number of statistical problems in the analysis of time series and cross-section data,
4. defend the results of their analysis in an appropriate form to all interested parties.

**Course Content:**

- An Overview of Applied Econometrics
- Descriptive Statistics
- Probability Distributions
- The Classical Model
- CLRM Assumptions
- Simple Regression Analysis and Multiple Regression Analysis
- Hypothesis Testing and Time-Series Analysis
- Violation of Assumptions – Misspecification Tests
- R-Squared
- Multicollinearity
- Dummy Variables
- Stationarity and Unit Root Tests

**Learning Activities and Teaching Methods:**

1. Faculty Lectures
2. Weekly In-Class Exercises
3. Case Study Analyses
4. Academic Paper Discussion
5. Student Presentations

**Assessment Methods:**

Case Study Assignment, Mid-Term Exam, Final Exam

**Required Textbooks / Readings:**

Title	Author(s)	Publisher	Year	ISBN
Introduction to Econometrics	James H. Stock and Mark W. Watson	Pearson	2020	9780136879787
Lecture Notes/Material	Sapuric, Svetlana	University of Nicosia	2024	

**Recommended Textbooks / Readings:**

<b>Title</b>	<b>Author(s)</b>	<b>Publisher</b>	<b>Year</b>	<b>ISBN</b>
Investments, 13 <sup>th</sup> edition	Bodie, Z., Kane, A. and Marcus, A.	McGraw- Hill	2024	9781264412662
Introductory Econometrics for Finance, 4 <sup>th</sup> Edition	Brooks, C.	Cambridge University Press	2019	9781108436823