

Course Title	Econometrics I				
Course Code	AEF475				
Course Type	Elective				
Level	Bachelor (1st Cycle)				
Year / Semester	4th Year / 7th Semester				
Teacher's Name	TBA				
ECTS	6	Lectures / week	3 Hours / 14 weeks	Laboratories / week	None
Course Purpose and Objectives	To increase students' econometric understanding. Students will learn how to collect data and to run regression analysis. They will be in a position to understand and critically evaluate the results.				
Learning Outcomes	<p>Upon successful completion of this course students should be able to:</p> <ul style="list-style-type: none"> • Identify appropriate estimation methods in a variety of contexts and circumstances; • Discuss the adaptations and limitations of regression analysis; • Apply econometrics in a robust way for a project • Interpret, and critically appraise, quantitative econometric results; • Explain and apply hypothesis tests in the context of regression analysis; • Conduct basic econometric analysis using the computer software package SPSS or STATA 				
Prerequisites	AEF240, BUS210, BUS315	Co-requisites	None		
Course Content	<p>Introduction: Review of Some Basic and Important Results in Statistics: Summation. Random Variables and Probability Distributions. The Normal Probability Distribution and Related Distributions. Sampling Distributions Point Estimation, Interval Estimation and Testing of Hypotheses.</p> <p>Simple Regression: Ordinary Least Squares. The Method of Moments and the Method of Least Squares. Statistical Inference, Analysis of Variance and Prediction with the Simple Linear Regression Model. Alternative Functional Forms for the Regression Equations.</p> <p>Multiple Regression: Statistical Inference, Interpretation of the Coefficients. Partial Correlations and Multiple Correlation. Prediction,</p>				

	<p>Analysis of Variance and Tests of Hypotheses. Omission of Relevant Variables. Degree of Freedom and Adjusted R2. Heteroscedasticity: Detection, Consequences and Solutions. Heteroscedasticity and the Use of Deflators.</p> <p>Autocorrelation: Detection; Durbin-Watson Test; Consequences and Solutions. Multicollinearity: Detection Consequences and Solutions</p>		
Teaching Methodology	Face-to-face		
Bibliography	<p>Gujarati Damodara: Essentials of Econometrics, McGraw-Hill (latest edition)</p> <p>Gujarati Damodara: Basic Econometrics, McGraw-Hill (latest edition)</p> <p>Jeffrey Wooldridge: Introductory Econometrics, South-Western (latest edition)</p> <p>Studenmund H.: Using Econometrics, Addison Wesley, (latest edition)</p> <p>Hill C., Griffiths W., Judge G.: Undergraduate Econometrics, Wiley,(latest edition)</p>		
Assessment	Examinations	60%	
	Class Participation and Attendance	10%	
	Assignments	30%	
		100%	
Language	English		