

Course Title	Quantitative Methods in Accounting and Finance				
Course Code	AEM640				
Course Type	Compulsory				
Level	Master (2 nd Cycle)				
Year / Semester	1 st Year / 1 st Semester				
Teacher's Name	TBA				
ECTS	10	Lectures / week	3 Hours / 14 weeks	Laboratories / week	None
Course Purpose and Objectives	The purpose of this course is to increase students' statistic and econometric understanding. Students will learn how to collect data and apply various statistical techniques. Moreover, students will be in a position to understand and critically evaluate the results. Considerable attention is devoted to the applications of the concepts and techniques to accounting and finance.				
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 Statistics; • Explain and apply hypothesis tests; • Apply the concepts and methodologies to explain issues related to Accounting and Finance; • Interpret and critically appraise, quantitative statistics and econometric results; • Conduct basic statistics and econometric analysis using a computer software package; • Develop ability to resolve real world Accounting and Finance problems by applying the quantitative methods to data analysis. 				
Prerequisites	AEM610 or AEM600 (For all students, except first degree Accounting holders or equivalent, and holders of an Accounting/Audit Professional Qualification)			Co-requisites	None
Course Content	<p>What is Statistics?</p> <p>Graphical Descriptive Techniques.</p> <p>Numerical Descriptive Techniques.</p> <p>Probability.</p> <p>Random variable and Discrete Probability Distributions.</p> <p>Continuous Probability Distributions.</p> <p>Sampling Distributions.</p> <p>Introduction to Estimation.</p> <p>Introduction to Hypothesis Testing.</p>				

	<p>Inference about a population.</p> <p>Inference about comparing two populations.</p> <p>Analysis of Variance.</p> <p>Simple Linear Regression and Correlation.</p> <p>Multiple Regression.</p> <p>Time series and panel data analysis</p>								
Teaching Methodology	Face-to-face								
Bibliography	<p>Keller, G and Warrack, B. Statistics for Management, Economics and Finance , Brooks/Cole Pub Co, last edition.</p> <p>Damodara, G.: Basic Econometrics, McGraw-Hill, Latest edition.</p> <p>Brooks. C.: Introductory econometrics for finance, Cambridge. Latest edition.</p> <p>Enders, W.: Applied Econometric Time Series, Wiley. Latest edition.</p>								
Assessment	<table border="1"> <tr> <td>Examinations</td> <td>50%</td> </tr> <tr> <td>Assignments</td> <td>40%</td> </tr> <tr> <td>Class Participation and Attendance</td> <td>10%</td> </tr> <tr> <td></td> <td>100%</td> </tr> </table>	Examinations	50%	Assignments	40%	Class Participation and Attendance	10%		100%
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Language	English								