Course title	Financial Econometrics
Course code	
Type of course	Compulsory
Level of course	Undergraduate
Year of study	Fourth (4 <sup>d</sup> )
Semester	Seventh (7 <sup>th</sup> )
ECTS credits	5
Name of lecturer(s)	Professor Costas Siriopoulos
Aim of the Course	The purpose of the course is to enable students understand financial phenomena and their characteristics, model financial phenomena, testing hypothesis of financial theory (Efficiency), apply econometric techniques and forecasting.
Learning outcomes	<ol> <li>At the end of this course the students should be able to:         <ol> <li>Understand financial phenomena and their modeling characteristics.</li> <li>Discuss if financial theory's equilibrium models hold in capital and money markets.</li> <li>Evaluate econometric models.</li> <li>Use time series techniques in studying financial series.</li> </ol> </li> </ol>
Competences	<ul> <li>At the end of the course the student will have further developed the following skills/competences:</li> <li>1. Estimate and evaluate econometric models and time series techniques in finance.</li> <li>2. Forecasting.</li> <li>3. Use of E–Views in financial econometrics.</li> </ul>
Prerequisites	There are no prerequisite courses. It is, however, recommended that students have knowledge of Statistics Mathematics and Corporate Finance.

Course contents	1. Linear Regression Model and assumptions.
	2. Modeling long run relationships in finance.
	3. Multicolinearity, autocorrelation,
	heteroskedasticity.
	4. Dummy variables.
	5. Time series.
	6. ARCH/GARCH models.
	7. Model volatility and correlation.
	8. Forecasting.
Recommended reading	1. Brooks C. (2002) "Introductory econometrics for finance", Campridge
	2. Maddala G.S. (2003). "Introduction to ecnometrics" J. Willey.
Teaching and learning methods	Lectures – Tutorials – Laboratory sessions
Assessment and grading methods	The grade is calculated as the weighted average of the final written exam and weekly exercises. Minimum passing grade: 5
Language of instruction	ENGLISH