DEREE COLLEGE SYLLABUS FOR: FN 3437 FINANCIAL ECONOMETRICS I		
(Previously FN 3237 Applied Financial Econometrics) (Updated Fall 2021)		UK LEVEL: 5 UK CREDITS: 15 US CREDITS: 3/1/3
PREREQUISITES:	EC1000 Principles of Microeconomics EC1101 Principles of Macroeconomics MA 1008 College Algebra MA 2021 Applied Statistics	
CATALOG DESCRIPTION:	Basic econometrics for the finance area econometrics of financial assets and mar asset-pricing models, univariate and my volatility models will be presented and app	rkets, empirical tests of ultivariate models, and
RATIONALE:	Given the importance of quantitative ana finance, this course develops students' evaluate economic and finance theories us. The course focuses on economic i applications of several econometric me employed in economics and financial resewill combine theory and practice in an effowith the necessary tools and knowledge situations.	ability to quantify and sing empirical examples. ntuition and practical ethods that are widely earch. Thus, the course rt to provide the student
LEARNING OUTCOMES:	 After taking this course, students should be Draw inferences from the properties Estimate the regression model, appretest hypotheses regarding the estin Demonstrate knowledge of univariate modelling methodologies and use to purposes. Explain the concept of cointegration mechanism, interpret the results of estimate error-correction models. Estimate autoregressive conditional (ARCH) specifications and some of 	s of data. bly diagnostic tests and nated parameters. ate and multivariate hem for forecasting and error-correction cointegration tests and all heteroskedastic
METHOD OF TEACHING AND LEARNING:	In congruence with the teaching and leccollege, the following tools are used: In-class exercises and examples to concepts. In-class discussion of journal article exposure on course content beyond generate discussion. Laboratory practice sessions Office Hours: Students are encourate the office hours of their instructor, we questions and go over lecture mate. Use of Blackboard learning platform post lecture notes, assignment instructors.	es in order to expand the textbook and aged to make full use of where they can ask erial.

	announcements, as well as additional re ➤ Use of the Simulated Trading Room for analysis	
ASSESSMENT:	Summative:	
	1 st assessment: Three assignments of equal weight each (600 – 800 words each)	60%
	2 nd assessment: In-class written examination (Two-hour, closed book)	40%
	Formative:	
	Practice problem sets	0%
	Journal Articles	0%
	The three assignments test Learning Outcomes	s 1, 2, 3, 4, and 5.
	The final assessment tests Learning Outcomes 1, 2, 3, and 4.	
	The formative assignments and articles prepare students for the examinations and ensure that students are actively engaged during the term.	
	Both summative and formative assignments make use of statistical software (e.g. Eviews, STATA).	
	The final grade for this module will be determined by averaging summative assessment grades, based on the predetermin weights for each assessment. If students pass the comprehens assessment that tests all Learning Outcomes for this module at the average grade for the module is 40 or higher, students are required to resit any failed assessments.	
INDICATIVE READING:	REQUIRED READING:	
	Brooks, C. (2019). Introductory Economet Cambridge University Press, 4 th edition.	trics for Finance.
	Other library sources, including journal articles ac Library, as assigned by the instructor.	cessible through the
	RECOMMENDED READING:	
	Hurn, Stan, Vance L. Martin, Jun Yu, and Peter (2020). Financial Econometric Modeling. Oxford	-
INDICATIVE MATERIAL:	REQUIRED MATERIAL: N/A	
(e.g. audiovisual, digital material, etc.)	RECOMMENDED MATERIAL: N/A	
COMMUNICATION REQUIREMENTS:	Use of appropriate academic conventions as applicable in oral and written communications.	
SOFTWARE REQUIREMENTS:	Excel, Word, financial databases, econometric software (e.g. Eviews, Stata)	

WWW RESOURCES:	www.ft.com www.bloomberg.com www.finance.yahoo.com
INDICATIVE CONTENT:	 Data analysis and descriptive statistics Simple regression analysis Multiple regression and assumptions violations Univariate modelling techniques (AR, MA, ARMA, ES) Multivariate modelling techniques (VAR, VEC) Stationarity, cointegration and causality relationships Volatility and correlation modelling