Module Specification

Module Summary Information

1	**Module Title**	Econometrics
2	**Module Credits**	20
3	**Module Level**	5
4	**Module Code**	QME5017

5	**Module Overview**
This module is consistent with the philosophy of the programmes where it is delivered as it presents a comprehensive coverage of the main techniques of analysis for economics, business and financial-type data involving the application of regression analysis. You will be given the opportunity to experience how econometrics can be used to empirically study and answer questions across a variety of disciplines. Moreover, this module introduces you to data extraction, data analysis and data interpretation using statistical software, hereby offering a practice-led, knowledge-applied education experience. The module will consist of two intertwined parts. Lectures will be about the theoretical component of this module: students will be given a thorough grounding in econometric concepts along with all the required mathematical and statistical tools. Seminars will train students to work on real-world applications and examples of the taught theory, analysing a wide-ranging collection of datasets and using a statistical package that will enhance students' employability skills.	

6	**Indicative Content**
•	The nature of econometrics and economic data.
•	Simple linear regression model
•	Multiple linear regression models.
•	Functional forms and incorporating nonlinearities.
•	Inference (testing hypothesis).
•	The Linear Probability Model.
•	Regression Diagnostic: Heteroskedasticity.
•	Regression Diagnostic: Multicollinearity.
•	Regression Diagnostic: Autocorrelation.
•	Non-stationary time series part 1
•	Non – stationary time series part 2
•	Estimating simultaneous equations models

7	**Module Learning Outcomes** **On successful completion of the module, students will be able to:**	
	1	Understand the econometric analysis involved in the building of linear regression models.
	2	Apply the econometric analysis performing appropriate statistical tests.
	3	Appraise the results of regression models run using statistical software.
	4	Demonstrate skills in problem solving and technical report writing.

8	Module Assessment		
Learning Outcome			
	Coursework	Exam	In-Person
1, 2, 3, 4	X		

9	Breakdown Learning and Teaching Activities
Learning Activities	**Hours**
Scheduled Learning (SL) includes lectures, practical classes and workshops, peer group learning, Graduate+, as specified in timetable	48
Directed Learning (DL) includes placements, work-based learning, external visits, on-line activity, Graduate+, peer learning, as directed on VLE	48
Private Study (PS) includes preparation for exams	104
Total Study Hours:	200