Subject Description Form

Subject Code	AMA481
Subject Title	Econometrics
Credit Value	3
Level	4
Pre-requisite/ Co-requisite/ Exclusion	Pre-requisite: Applied Statistical Methods (AMA263 or AMA2631)
Objectives	This subject is to apply the techniques of statistics, in particular that of regression methods, to formulate, estimate and analyze economic relationships.
Intended Learning Outcomes	 Upon satisfactory completion of the subject, students should be able to: recognize economic relations and econometric models; formulate econometric models and identify the data relevant to the models; use statistical packages to estimate econometric models; apply econometric techniques in the estimation and analysis of econometric models and to evaluate the pros and cons of alternative models; deal with nonstandard situations encountered in model analysis; interpret analysis results and make recommendations with valid justifications for actions; present analysis results of econometric models in a well-structured manner. build up on team spirit, presentation and technical writing skills; solve real-world problems using econometric techniques; communicate effectively in a well-structured manner and build up an openminded attitude.
Subject Synopsis/ Indicative Syllabus	Review of single equation and multiple regressions (15 hours) Economic relationships and econometric models, nature and quality of economic data, model specification, production, consumption, and investment functions, multiplier effects, dummy variables and seasonality. Problems arising from use of least squares (9 hours) Heteroscedasticity, serially correlated errors, weighted least squares, generalized least squares, multicollinearity. Econometric Modelling (12 hours) Instrumental variable estimation, errors in variables, dynamic and distributed lag models, simultaneous equations models. Applications (6 hours) Macroeconomic models, production function, supply and demand analysis, financial models.
Teaching/Learning Methodology	The subject will be delivered mainly through lectures and tutorials. The lectures will be conducted to introduce the econometrics concepts of the topics in the syllabus, which are then reinforced by learning activities involving demonstration, tutorial exercise and assignments.

Assessment Methods in Alignment with	Specific assessment	% weighting	Intended subject learning outcomes to be assessed (Please tick as appropriate)										
Intended Learning Outcomes	methods		1	2	3	4	5	6	7	8	9	10	
	a. Assignments	20%	√	✓	√				√	√		✓	
	b. Tests	20%		√	√	√	✓						
	c. Examination	60%			√	√	✓	✓			√		
	Total	100 %							1				
	Continuous Assessment comprises of assignments and tests. A written examination is held at the end of the semester. To pass this subject, students are required to obtain Grade D or above in both the Continuous Assessment and the Examination components in order to satisfy all the intended learning outcomes.												
Student Study Effort Required	intended learning outcomes.												
	Class contact: Lecture									28 Hrs.			
	Tutorial									28 Hrs.			
	Other student study effort:												
	Assignment									40 Hrs.			
										26 Hrs.			
	Boll study												
D 1: 1:4 1	Total student study effort 108 Hrs.												
Reading List and References	Gujarati, D.N.	<u>Textbooks</u> : Gujarati, D.N. Basic Econometrics, 5 th edition McGraw Hill, 2008											
	Maddala G.S.	Introduc 3 rd editio	ection to Econometrics Wile ion 2001							•			
	References:												
	Wooldridge, J.M.		rn Approach Colle							th-Western ege Publication			
	Studenmund, A.H.		International Edition 2005							ison Wesley			
	Pindyck, R.S. & Rubinfeld, D.L.		ometric Models and McC omic Forecasts, 4 th edition 1998							Graw-Hill 8			
	Stock, J.H. & Watson, M.W.	Introduc 2 nd editie								lison Wesley 6			