Semester	III			
Paper Number	MECO4313			
Paper Title	Econometric Methods –I (Elective Paper 1)			
No. of Credits	6			
Theory/Composite	Composite			
No. of periods assigned	4 Theory			
-	2 Practical			
Course	The objective is to			
description/objective	1. Focus on probability and probability distributions.			
	2. Use probability distributions in studying measures of inequality.			
	3. To develop tools for analyzing time series data in economics.			
	4. Introduce students to co-integration analysis.			
	5. Introduce students to binary choice models.			
	6. Use computers to analyze time series and cross sectional data.			
Syllabus	Module 1 (20 marks)			
	Probability & Distributions - Pareto Distribution, Log normal distribution,			
	Bivariate Distribution – Multivariate – Normal Distribution, Factor			
	Analysis			
	Module 2: Time Series Analysis (20 marks)			
	Autocorrelation - ACF and PACF - Some Useful Processes (White Noise,			
	Random Walks, MA Processes, AR Processes, ARMA Processes and			
	ARIMA Processes) – Analysis of Time Series and Box-Jenkins Method Unit			
	root and structural break; Vector Auto Regression Model - (Impulse			
	Response Function, variance decomposition; vector error Corrections;			
	Cointegration			
	Module3: Cross Section Analysis (10 marks)			
	Limited Dependent Variable Model- Binary Choice Models - Linear			
	Probability Model, Probit and Logit Models.			
	Practical (30 marks)			
Readings	1. Goon, Gupta, Dasgupta (1973) : An Outline of Statistical Theory Vol 1,			
11000011100	World Press Private Limited.			
	2. Feller. W (1957): An Introduction to Probability Theory and its			
	Applications, John Wiley & Sons, Inc 3 <sup>rd</sup> Edition.			
	3.N. L Johnson and S Kotz (1970): Distribution in Statistics, Vol I, II,III&			
	IV, John Wiley & Sons, 2 <sup>nd</sup> Edition.			
	4. Anderson (2003): An Introduction to Multivariate Statistical Analysis,			
	Wiley & Sons, 3 <sup>rd</sup> Edition.			
	5. C.R. Rao (1984): Linear Statistical Inference and its Application, Wiley			
	Eastern Limited.			
	6. Poverty and Inequality- ed by S.M. Ravi Kanbur, Stanford University			
	Papers.			
	7. Maddala, G.S: Introduction to Econometrics, 3 <sup>rd</sup> Edition, John Wiley and			
	sons. 8.Johnston and Dinardo: Econometric Methods,4 <sup>th</sup> Edition, The McGraw Hill			
	Companies Inc.			
	9. James H Stock and Mark W. Watson: Introduction to Econometrics,			
	Pearson Education.			
	10. Maddala, G.S (1986): Limited Dependent and Qualitative Variables in			
	Econometrics, Cambridge University Press			

Evaluation	Continuous Internal Assessment: 20 marks End- Semester Theory Examination: 80 marks					
Paper Structure for End Semester	Module	Questions to be	No. of Alternatives	Marks		
		Answered				
	Module	1 2	3	10 x 2 = 20		
	Module	2 2	3	10 x 2 = 20		
	Module	3 1	2	10 x 1 = 10		
	Total M	tal Marks (Theory)		50		
	Total M	arks (Practical)		30		
	Total M	Total Marks				