Programme: M. A. Economics

Course Code: ECO 226

Title of the Course: Advanced Econometrics

Number of Credits: 4

Total Contact Hours:48

Effective from AY: 2018-19

<u>Prerequisites for</u>	Introduction to Econometrics-1	
the course:		
Objective:	The objective of the course is to familiarize the students with	Contact
	advanced econometric analysis using time series and panel	Hours
	data.	
Content:		
	1. Auto Regressive and Distributed Lag Models	10
	Estimation of distributed lag models - Adaptive Expectations	
	models - Stock adjustment models - ARDL Models-	
	Method of instrumental	
	variables	
	2. Simultaneous Equation Models	
	Nature of Simultaneous Equation Models. Problems of	12
	Bias, Identification and Simultaneity -The method of	
	indirect Least Squares - Method of two-stage least squares	
	3. Time Series Analysis	
	Spurious Regression, Random Walk Model,	
	Stationarity, Unit Root, Co-integration, ARIMA,	8
	Introduction	
	Causality test. Introduction to VAR	
	Models.	
	4. Panel Data Analysis	10
	Cross Section and Time Series data analysis- Fixed Effects	
	and Random Effects Models. Applications of Panel Data	8
	5. Qualitative Dependent variable Regression	
	LPM, Logit, Probit and Tobit models.	
Pedagogy:	lectures/ case analysis/assignments/class room interaction/lab	
	practical's	
Defenences/Dec.	Deferences	
Kelerences/Kead	<u>References</u>	
mgs	• Baltagi (2005), <u>Econometric Applications of Panel</u>	
	Data, John Wiley and Sons, England	
	• Davidson, J. (2000) <u>Econometric Theory</u> , Blackwell,	
	USA	
	• Gourieroux, C(2000) Econometrics of Qualitative	
	Dependent Variables, Cambridge University Press,	
	Cambridge.	
	 Greene, W. (2018) <u>Econometric Analysis</u>, Pearson, New York. 	
	• Guiarati, D (2004). Basic Econometrics.	
	MacgrawHill, New Delhi	
	• Hasio Chang (2003), <u>Analysis of Panel Data</u> ,	

	Cambridge University Press
	• Maddala, G.S. & I.M. Kim (1998) Unit Roots, Co-
	integration & Structural Change, Cambridge
	University Press, Cambridge
	• Mukherjee, C., H. White & M. Wuyts (1998)
	Econometrics & Data Analysis for Developing
	Countries, Routledge, London
	• Pattreson, Kerry (2000) <u>An Introduction to Applied</u>
	Econometric: Time Series Approach, Palgrave
	Macmillan, New York
	• Pattreson, Kerry (2010) A Primer for Unit root
	testing, Palgrave Macmillan, USA
	• Wooldridge, Jeffrey M (2002), Econometric Analysis
	of cross section and Panel Data, MIT Press, USA
Learning	The students will be able to build macroeconometric models
<u>Outcomes</u>	using time series data and panel data and estimate the same
	using econometric software.

*01 level one courses and 02 level two courses