Semester	VII				
Paper Code	C4EC230822				
Paper Title	Quantitative Economic Analysis-III: Advanced Econometrics				
No. of Credits	6				
Theory/Practical/Composite	Composite				
No. of periods assigned	3 Theory				
	1 Practical				
Minimum No. of	4 Theory				
preparatory hours per	2 Practical				
week a student has to					
devote					
Course	The objective is to				
description/objective	Introduce advanced tools of exploratory data analysis				
description/objective	2. Apply the techniques of Cointegration and error correction				
	3. Analyse simultaneous stochastic equations				
	4. Understand the interplay of economic theory and economic applications.				
	5. Introduce students to system estimators				
	6. Compare single equation and systems' estimation methods				
Syllabus	Module 1: Exploratory Data Analysis - (15 marks)				
Syllae as	Principal Components, Factor Analysis using Principal Component method				
	of estimation.				
	(No. of classes per week: 1)				
	(2100 02 030000 poz. 110010 2)				
	Module 2: Time Series Analysis (20 marks)				
	Cointegration and error correction model; Vector Auto Regression				
	Model; Vector Error Correction model; Applications of Time Series				
	Techniques in Economics				
	(No. of classes per week: 1)				
	(10. of classes per week. 1)				
	Module3: Simultaneous Equations System (15 marks)				
	Rank &Order Condition – Linear Homogeneous Restriction - Zero Restriction				
	(Special case).				
	Single Equation Modelling- OLS, ILS, Instrumental Variable Estimator, 2				
	SLS, K- class, LIML, System Estimation Method- 3SLS, FIML				
	(No. of classes per week: 1)				
(110. 01 classes per week. 1)					
	Practical (20 marks)				
	(No. of classes per week: 1)				
Readings	1. Johnson, R. A, and Wichern, D. W (2013).: Applied Multivariate				
Readings	Statistical Analysis, Pearson Education, 6th Edition.				
	2. Johnston and Dinardo: Econometric Methods, 4th Edition, The				
	McGraw Hill Companies Inc.				
	3. Judge. et.al. (1993) :Theory and Practice of Econometrics, Wiley				
	4. Richard Harris and Robert Sollis, Wiley Student Edition				
	5. Bridge J.L.: Applied Econometrics, North Holland Publishing				
	,				
	Company. Theil (1971): Principles of Econometrics. Wiley				
	6. Maddala, G.S (1988): Econometrics, McGraw hill				
	7. G.C. Chow: Econometrics (1984)				

Evaluation	Continuous Internal Assessment: 30 marks End- Semester Theory Examination: 70 marks					
Paper Structure for End Semester	Module	No. of Questions to be Answered	No. of Alternatives	Marks		
	Module 1	2	3	15 x 1 = 15		
	Module 2	2	3	10 x 2 = 20		
	Module 3	1	2	15 x 1 = 15		
	Total Marks (Theory)			50		
	Total Marks (Practical)			20		
	Total Marks			70		