Course Number: ABM701, Course Title: ECONOMETRICS FOR BUSINESS ANALYSIS

Class: M.Com. Status of Course: MAJOR COURSE, Approved since session: 2015-16
Total Credits: 4, Periods (55 mts. each)/week: 4 (L-4+T-0+P/S-0), Min.pds./sem.:52

UNIT 1 [11 pds]
Meaning, Nature and Scope Of Econometrics, Simple and Linear Regression Model, Estimation through OLS approach, Gauss-Marko's theorem, Concept and Derivation of R^2, Maximum Likelihood Method, Multi Co-linearity and Auto Correlation, Method of Indirect Least Square (ILS), Two Stage Least Square (2SLS), Three Stage Least Square(3SLS).

UNIT 2 [10 pds]
Methodology Of Econometrics-Models Specification Stage, Model Estimation Stage, Model Evaluation Stage, Properties Of Econometric Models, Testing Structural Stability Of Regression Model, Regression With Dummy Dependent Valuables, LPM Logit, Probit And Tobit Models, Auto-Regression and Distributed Lag Models- Kyok Ro Model, Partial Adjustment Model, Nertve's Partial Adjustment Model and Granger Causality Test.

UNIT 3 [11 pds]
Concept of Analysis of Variance approach and Its application in Regression Analysis, Heteroscedasti city and Multi Co-linearity, Concept of Stationarity, Random Walk Model, Unit Roots-Dicky-Fuller Test and augmented Dicky-Fuller Test, Co-Integration.

UNIT 4 [10 pds]
Time Series Analysis-Basic Concept, Economic Application Stationary and Non-Stationary Process, Unit Root Stochastic Process, Forecasting-Problem with VAR Modeling, Test of significance of the difference between a single prediction and the actual observation, Theil's Inequality coefficient, The Janus Quotient.

UNIT 5 [10 pds]
Multivariate Analysis-meaning, properties of Multivariate Normal distribution, T2, Discernment analysis, factor analysis, The use of Statistical package in econometric research, and data entry, Parametric and Non-Parametric tests, Dublin Watson test, analysis of variance

SUGEGESTED READING

Greene. W.H. Econometrics Analysis, Prentice Hall, 1997.
Dilip .M. Nachane, Econometrics: Theoretical Foundation and empirical perspectives, oxford university press; 2006
Damodhar .N.Gujarati, Basic Econometrics, Tata McGraw Hill, 2005
A Koutsoyamis, Theory of Econometrics, Palgrave 2004
Johnston, Econometrics Methods, McGraw Hill 1991.
Maddala, G. S, Introduction to Econometrics, Macmillan.
Amemiya, T (1985), Advanced Econometrics, Harvard university press, Cambridge, Mass