Stat-423 Econometrics II

50 Marks: 02 Credits

Number of Class: 20-26

Probability Model: Detail study of linear probability model, logistic (logit), ordered logit, generalized ordered logit, probit and tobit models.

Dynamic Econometric Model: Autoregression, distributed lagged variables, lag model, meaning of dynamic distribution lag and autoregressive models role and reasons for lags in econometric model. Method of estimation of lag by Adhocmollud, Koyck and Almon method of estimating distributed lag model, median lag of different models, method of instrumental variable, detecting autocorrelation in autoregressive model by Durbin H-test, Granger causality test.

Non-Linear Model: Non-linear model and principles of non-linear least squares estimation, numerical method of estimating least squares, properties of non-linear regression, Cobb-Douglas and CES production functions, estimation of Cobb-Douglas production function parameters.

Input-output analysis internal efficiency inter-industry relation, application of social accounting matrix in planning and development.

Text

1. Gujrati,D. (2003): *Basic Econometrics* 4th edition, McGraw-Hill, New York.
2. Johnston, J. (1977): *Econometric Methods*, 4th edition, McGraw-Hill, New York.
3. Desai, M. (1976): *Applied Econometrics*, Oxford Publication.
4. Cameron, A. C. and Trivedi, P.K. (2005): *Microeconometircs- Methdos and Application*, Cambridge University Press, UK.

References

1. Greene, W.H. (2003): *Econometric Analysis***,** 5th Ed, Pearson Education

2. Gujrati,D. (2003): *Basic Econometrics* 4th Ed, McGraw-Hill, New York.
3. Kleim & Miller: An Introduction to Econometrics
4. Klein, L.R. (1974): *A Text Book of Econometrics*, Evanston, Ill., Row, Peterson.
5. Koutsoyiannis, A. (1977): *Theory of Econometrics*, 2nd Edition, Palgrave Macmillan Ltd,India.
6. Malinvand,E: *Statistical Methods of Econometrics*.
7. Thiel, H.: *Principal of Econometrics*.
8. Wooldridge, J. (2005): *Introductory Econometrics: A Modern Approach*, South-western College Pub.