

MBE II Year	MBE--C303		Semester-III		
	Econometrics				
Time Allotted for End Semester Examination	Marks Allotted for Internal Assessment	Marks Allotted for End Semester Examination (ESE)	Maximum Marks (MM)	Total Credits	Maximum Hours
3 Hrs.	30(20+10)	70	100	03	40

OBJECTIVE: The course introduces students to regression methods for analyzing data in economics and related areas. This course emphasizes both the theoretical and practical aspects of statistical analysis, focuses on techniques for estimating econometric models of various kinds and interpreting the estimates from such models. The objective is for the student to learn how to conduct – and how to critique - empirical studies in economics and related fields.

- Overview of econometrics: Meaning, Definition and scope of econometrics, goal of Econometrics, division of econometrics, the sources of hypothesis used in econometrics, economic data: the raw material of econometrics. **Case Study 1:** Shopping centre Europa– when threats become opportunities **(7Hours)**
- Econometric Groundwork: Random variables, Estimation, Desirable properties of Estimators, Probability, Distributions, Moments, Hypothesis testing and confidence intervals, Statistical inference. **(7Hours)**
- Methodology of econometrics research: Stage A. Specification of Model, Stage B. estimation of the model, Stage C. Evaluation of the parameter Estimates, Stage D. Evaluation of the forecasting power of the model, Desirable properties of an econometric model. **(8Hours)**
- The ordinary least square method, properties of the least square estimates, Multiple regression, Autocorrelation, Multicollinearity, Maximum likelihood method. **Case Study 2:** Economics behind the internationalization of Biocon India Ltd. **(8Hours)**
- Auto Regression, Moving Average Model, Auto Regressive and Moving Average Model, ARCH Models, GARCH Model, Theoretical Introduction to R and R Studio and E-Views. **(10Hours)**

SUGGESTED READINGS:

1. Basic Econometrics, Gujarati, Damodar N. Fourth Edition, Mc Graw Hill Irwin, 2003.
2. Introduction to Econometrics, Stock, J., and M. Watson, Addison-Wesley, 2003.
3. Statistics with STATA, Hamilton, L., (Updated for Version 8), Duxbury Press, 2003.
4. Econometric Models & Economic forecasts Robert S.Pindyck & Daniel L. Rubinfeld, Macgrawhill, Singapore.
5. Econometric Analysis, Greene, W. H., New York, NY: MacMillan Publishing Company.
6. A Text book of Econometrics-Lawrence R.Klein, PHI, New Delhi.
7. Theory of Econometrics, A Kontsosyannis, Palgrave, New York.
8. **Case Study 1:** Ieva Kvedaravičienė, Lilija Vilkanciene, (2013) "Shopping centre Europa – when threats become opportunities", Emerald Emerging Markets Case Studies, Vol. 3 Issue: 6, pp.1-5, <https://doi.org/10.1108/EEMCS-06-2013-0076> Permanent link to this document: <https://doi.org/10.1108/EEMCS-06-2013-0076>
9. **Case Study 2:** Palakh Jain, (2013) "Economics behind the internationalization of Biocon India Ltd", Emerald Emerging Markets Case Studies, Vol. 3 Issue: 7, pp.1-20, <https://doi.org/10.1108/EEMCS-08-2013-0163> Permanent link to this document: <https://doi.org/10.1108/EEMCS-08-2013-0163>

NOTE: The list of cases, specific references and books including recent articles will be announced in the class by concerned teachers from time to time.