
Dean: J. Sator

Registrar: P. Angus

N: TEXTBOOKS AND MATERIALS TO BE PURCHASED

Gujarati, Damodar. Basic Econometrics, latest ed. McGraw-Hill Book Company.

O: COURSE OBJECTIVES

The student will be able to:

1. estimate relationships between data utilizing regression techniques;
2. conduct tests related to goodness of fit and independence;
3. explain the potential problems encountered when using regression analysis;
4. develop forecasts using price indexes, smoothing and regression;
5. apply the techniques to economic problems.

P: COURSE CONTENT

1. Basic concepts of regression analysis.
2. Specification: assumptions of the simple regression model, log-linear, double log formation, etc.
3. The method of ordinary least squares (OLS).
4. The normality assumption.
5. Interval estimation and hypothesis testing.
6. Prediction in the linear regression model.
7. Functional form in the variables.
8. Multiple linear regression: specification.
9. Multiple linear regression: estimation (OLS).
10. Goodness of fit.
11. Interval estimation and hypothesis testing.

12. Linear coefficient restrictions.
13. Functional forms in the variables.
14. Dummy variable regressors and covariance analysis.
15. Errors in multiple regression (OPT).
16. Index numbers.
17. Forecasting and time series.

Q: METHOD OF INSTRUCTION

Material will be presented in a lecture format.

R: COURSE EVALUATION

Minimum of 3 evaluations, none of which will exceed 40%, for a total of 100%.

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