Enquire Teaching Timetable

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Course Outcome

ECON 3121 - Introductory Econometrics

Learning Outcome

1. Set up Simple and Multiple Linear Regression Models
2. Explain how the Ordinary Least Squares (OLS) estimates are obtained
3. Execute regressions using a statistical software like STATA
4. Report and interpret the OLS regression results
5. Apply algebraic properties of the OLS estimates
6. Understand statistical properties of the OLS estimators
7. Explain consequences of the omitted variables in regression models
8. Understand consequences of the violations on the OLS assumptions
9. Test hypotheses about parameters and linear restrictions
10. Conduct policy analysis with two or more time periods

Course Syllabus

1 The Ordinary Least Squares (OLS) Estimates of Simple Linear Regression (SLR)
2. Expected Values and Variances of the OLS estimators of SLR
3. Multiple Linear Regression (MLR) Model
4. Mechanics and Interpretation of Ordinary Least Squares
5. Expected Values and Variances of the OLS estimators of MLR
6. Gauss-Markov Theorem
7. Testing Hypotheses about Parameters
8. Testing Multiple Linear Restrictions
9. OLS Asymptotics
10. Models with Quadratics and Interaction Terms
11. Prediction and Residual Analysis
12. Binary Variables
13. Heteroskedasticity
14. Panel Data Analysis

Assessment Type

	Assessment Type	Current Percent
1	Essay test or exam	90
2	Others	10

Feedback for Evaluation

Course and teaching evaluation at end of course
Informal feedback channels throughout the course (face-to-face, email, WebCT)

Required Readings

Wooldridge, Jeffrey (2009), Introductory Econometrics, Fourth Edition, South-Western

Recommended Readings

Stock, James H. and Mark W. Watson (2006), Introduction to Econometrics, First Edition, Addison Wesley,
Gujarati , Damodar (2009), Basic Econometrics, Fifth Edition, , McGraw Hill,