

## Teaching Learning Process

Lectures and tutorials

## Assessment Methods

Internal assessment and final examination as per CBCS rules

## Keywords

Finance, economics

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## **Applied Econometrics (HE55)**

Discipline Specific Elective (DSE) Credit: 6

### Course Objective

The course assumes that students have a basic knowledge of statistics, mathematics as well as basic econometric theory. It builds on the compulsory Introductory Econometrics course and teaches students a broad set of commonly used econometric methods. These include estimating models with limited dependent variables and the use of instrumental variables to estimate models with endogenous regressors.

### Course Learning Outcomes

Students will learn the theoretical basis for techniques widely used in empirical research and consider their application in a wide range of problems.

### Unit 1

Stages in empirical econometric research

### Unit 2

The linear regression model: estimation, specification and diagnostic testing: estimation, specification and inference

### Unit 3

Advanced topics in regression analysis: dynamic econometric models, instrumental variable estimation, measurement errors

### Unit 4

Panel data models and estimation techniques: pooled regression, fixed and random effects models

### Unit 5

Limited dependent variables: logit and probit models for binary responses, tobit models for truncated data.

### Unit 6

Introduction to econometric software; publicly available data sets and software will be used to estimate models and apply the techniques learned in class

### References

1. Gujarati, D. (2014). *Econometrics by example, 2nd ed.* Palgrave Macmillan.

2. Gujarati, D., Porter, D. (2012). *Basic econometrics, 5th ed.* McGraw-Hill.
3. Wooldridge, J. (2014). *Introduction to econometrics: A modern approach, 5th ed.* Cengage Learning.

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### Keywords

Regression, instrumental variables, panel data

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## **Economic History of India 1857-1947 (HE56)**

Discipline Specific Elective (DSE) Credit: 6

### Course Objective

This course analyses key aspects of Indian economic development during the second half of British colonial rule. In doing so, it investigates the mechanisms that linked economic development in India to the compulsions of colonial rule.

### Course Learning Outcomes

The course develops critical analytical skills and exposes students to understanding the intricacies of India's economic, political and social developments both in the past and present times. It increases their employability by enhancing their ability to deal with a variety of textual and statistical sources, and to draw upon them to construct a coherent argument. These skills would be useful in a variety of careers in academics, research, journalism and the government.

### Unit 1

Colonial India: background and introduction

### Unit 2

Trends in national income, population; labour and occupational structure

### Unit 3

Agriculture, agrarian structure and land relations

### Unit 4

Railways and industry

### Unit 5

Economy and state in the imperial context

### References

Some readings may be updated periodically. Material for the course will be drawn from the following sources