Lecture Plan

Name of the College: Government College of Arts, Science and Commerce. Sanquelim - Goa

Name of Faculty: Ms. Aarti Suresh Malik	**Subject: Basic Econometrics for Social Sciences**

Paper code: ECO 323	**Program: BA**	**Division:**

Academic year: 2025-26	**Semester: VI**	**Total Lectures:30**

Course Objectives: To familiarize students with Basic econometric analysis. & use of appropriate econometric software.

Student Learning Outcome: The students will be able:
1. Frame and test econometric models manually using Ordinary Least Squares.
2. Conduct econometric models using Ordinary Least Squares using software

Month	Lecture From	Lecture To	No. of lectures allotted	Topic, Subtopic to be covered	Exercise/ Assignment	ICT Tools	Reference books
December 2025	01/12/25	06/12/25	02	**Unit 1: Introduction to Econometrics** What is Econometrics		PPT, smart board	Ramanathan, Ramu (2002) Introductory Econometrics with Applications Ramanathan, Ramu (2002) Introductory Econometrics with Applications

	08/12/25	13/12/25	02	Basic Ingredients of an Empirical Study		PPT, smart board	Ramanathan, Ramu (2002) Introductory Econometrics with Applications
	15/12/25	20/12/25	02	Terms and terminology		PPT, smart board	Ramanathan, Ramu (2002) Introductory Econometrics with Applications Gujarati, D.N. and D.C. Porter (2009). Essentials of Econometrics
	22/12/25	27/12/25	01	examples of models	Calculations	PPT, smart board	Ramanathan, Ramu (2002) Introductory Econometrics with Applications
	29/12/25	03/01/26	01	Practical: Introduction to software and interface		PPT, smart board	Ramanathan, Ramu (2002) Introductory Econometrics with Applications
January 2026	05/01/26	10/01/26	02	Practical: Introduction to software and interface	assignment	PPT, smart board	Ramanathan, Ramu (2002) Introductory Econometrics with Applications Gujarati, D.N. and D.C. Porter (2009). Essentials of Econometrics
	12/01/26	17/01/26	02	**Unit 2: Review of Probability and Statistics:** Random Variables and Probability Distributions	Assignment	PPT, smart board	Ramanathan, Ramu (2002) Introductory Econometrics with Applications Gujarati, D.N. and D.C. Porter (2009). Essentials of Econometrics
	19/01/26	24/01/26	02	Mathematical Expectation, Mean, and Variance		PPT, smart board	Ramanathan, Ramu (2002) Introductory Econometrics with Applications
	26/01/26	31/01/26	02	Joint Probabilities, Covariance, and Correlation		PPT, smart board	Ramanathan, Ramu (2002) Introductory Econometrics with Applications
February 2026	02/02/26	07/02/26	02	Random Sampling and Sampling Distributions		PPT, smart board	Ramanathan, Ramu (2002) Introductory Econometrics with Applications

	09/02/26	14/02/26	02	Procedures for the Estimation of Parameters		PPT, smart board	Ramanathan, Ramu (2002) Introductory Econometrics with Applications
	16/02/26	21/02/26	02	Properties of Estimators		PPT, smart board	Ramanathan, Ramu (2002) Introductory Econometrics with Applications
	23/02/26	28/02/26	02	The Chi-square distribution, t distribution	Excel (data)	PPT, smart board	Ramanathan, Ramu (2002) Introductory Econometrics with Applications
March 2026	02/03/26	07/03/26	02	F-distributions; Testing Hypotheses, Interval Estimation	Excel (data)	PPT, smart board	Ramanathan, Ramu (2002) Introductory Econometrics with Applications
	09/03/26	14/03/26	02	**Practical**: Use sample data in software to explore		PPT, smart board	Ramanathan, Ramu (2002) Introductory Econometrics with Applications Gujarati, D.N. and D.C. Porter (2009). Essentials of Econometrics
	16/03/26	21/03/26	02	Distribution graphs, test statistic calculator	Excel (data)	PPT, smart board	Ramanathan, Ramu (2002) Introductory Econometrics with Applications
	23/03/26	28/03/26	02	estimate descriptive statistics, covariance and correlation		PPT, smart board	Ramanathan, Ramu (2002) Introductory Econometrics with Applications
April 2026	30/03/26	04/04/26	02	testing of hypothesis (t-test: one and two samples; F-test: one and two samples) Revision	Excel (data)	PPT, smart board	Ramanathan, Ramu (2002) Introductory Econometrics with Applications Gujarati, D.N. and D.C. Porter (2009). Essentials of Econometrics

Assessment Rubrics

Component	Max Marks
ISA 1	7.5
ISA 2	7.5
SEE	60
Practical	25