Lecture Plan

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

Name of Faculty: Gauri Vernekar	**Subject:** BASIC ECOMETRICS FOR SOCIAL SCIENCE	
Paper code: ECO321	**Program: T.Y B.A (MINOR)**	**Division:**
Academic year: 2025-2025	**Semester: VI**	**Total Lectures:45**

Course Objectives: . The objective of the course is to introduce students to:

- Basic econometric analysis.
- Use of appropriate econometric software.

Expected Course Outcome: Students are expected to learn Basics of Econometrics in detail.

Student Learning Outcome: To equip the students with the understanding of Econometric in detail

Month	Lecture From	Lecture To	No. of lectures allotted	Topic, Subtopic to be covered	Exercise/ Assignment	ICT Tools	Reference books	
December	1 Dec ember	7 Dec ember	2	Meaning and nature of Simple Linear Regression	Assignment	presentation	Ramanathan, Ramu (2002). Introductory Econometrics with Applications,	

								Pearson Education, Singapore.	
	December	8 December	14 December	3	Basic model and assumptions		presentation	Ramanathan, Ramu (2002). Introductory Econometrics	
	December	15 December	23 December	3	Multiple variable dataset		presentation	Ramanathan, Ramu (2002). Introductory Econometrics	
	December	24 December	1 January 2026		Xmas break				
	January	2January2026	11 Jan 2026	3	Precision and OLS estimationstandard errors			Ramanathan, Ramu (2002). Introductory Econometrics	
	January	12 January 2026	18 January 2026	3	Goodness of fit (R^2)Expenditure Practical: Estimation and interpretation of simple linear regression models using software		presentation	Ramanathan, Ramu (2002). Introductory Econometrics	
	January	19 January 2026	25 January 2026	3	Hypothesis testing (t-test)			Ramanathan, Ramu (2002). Introductory Econometrics	
	January	26 January 2026	1 February 2026	3	Confidence intervals Applications: Engel Curve (Health Expenditure and			Ramanathan, Ramu (2002). Introductory Econometrics	

				Income); Patents and R&D				
February	2 February 2026	8 February 2026	3	Forecasting and prediction			Ramanathan, Ramu (2002). Introductory Econometrics	
February	9 February 2026	15 February 2026	3	Scaling and causality			Ramanathan, Ramu (2002). Introductory Econometrics	
February	16 February 2026	22 February 2026	3	Patents and R&D application Estimation and interpretation of multiple regression models using software.			Ramanathan, Ramu (2002). Introductory Econometrics	
February	23 February 2026	1 February 2026	3	Introduction to Multiple Regression			Ramanathan, Ramu (2002). Introductory Econometrics	
February	2 February 2026	8 March 2026	3	Normal equations			Ramanathan, Ramu (2002). Introductory Econometrics	
March	9 March 2026	15 March 2026	3	Goodness of fit			Ramanathan, Ramu (2002). Introductory Econometrics	
March	16 march 2026	21march 2026	3	Model selection criteria			Ramanathan, Ramu (2002). Introductory Econometrics	

March	23 march 2026	31march 2026	3	Hypothesis testing (t & F)Specification errorsApplications			Ramanathan, Ramu (2002). Introductory Econometrics	

	Component	Max Marks	
	ISA 1	7.5	
	ISA	7.5	
Assessment Rubrics	ISA	7.5	
	Practical	15	
	Project	-	
	Semester End Exam	80	