

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI

COURSE PLAN (November 2024 – April 2025)

Department : **Economics**
Name of the Faculty : **Dr. J. Regi Manimegala**
Course Title : **Introductory Econometrics**
Course Code : **23EC/AC/EM45**
Shift : **I**

COURSE OUTCOMES (COs)

COs	Description					CL	
CO1	Identify and understand the concepts of econometrics					K1	
CO2	Infer theoretical background for the standard methods used in empirical analysis and integrate in theory building					K2	
CO3	Apply econometric methods like properties of least square estimators and statistical testing to real time economic problem					K3	
CO4	Examine problem-oriented research using the most appropriate and relevant econometric techniques.					K4	
CO5	appraise statistical tools and interpret linear regression, nonlinear regression and simultaneous equation model.					K5	
Week	Unit No.	Content	Cognitive Level	Teaching Hours	COs	Teaching Learning Methodology	Assessment Methods

Nov 18 – 25, 2024 (Day Order 1-6)	1	Introduction 1.1 Econometrics – Definition 1.2 Classical Econometric Methodology – Analysis of an economic problem	K1-K2 K1-K3	5	1-5	Participatory Learning Methods Problem Solving Methods	CAI
Nov 26- Dec 3, 2024 (Day Order 1 to 6)	2	Two Variable Linear Regression Model 2.1 PRF and SRF 2.2 Methods of OLS, Assumptions	K1-K3	5	1-5	Experiential Learning Methods	CAI QUIZ
Dec 4-11, 2024 (Day Order 1 to 6)	2	2.3 Derivation of OLS estimator and its properties 2.4 Standard Error	K1-K3 K1-K4	5	1-5	Participatory Learning Methods	CAI
Dec 12-19, 2024 (Day Order 1 to 6)	2	2.5 Gauss Markov Theorem- Derivation 2.6 Coefficient of determination 2.6 Coefficient of determination	K1-K5	5	1-5	Participatory Learning Methods	CAI
Dec 20, 2024 (Day Order 1)	2	2.8 Estimation of a two variable by model	K1-K5	1	1-5	Problem Solving Methods	CAI Problem Assignment
Jan 3 – 7, 2025 (Day Order 3 to 6)	2	2.8 Estimation of a two variable by model	K1-K5	4	1-5	Problem Solving Methods	CAI Problem Assignment

	3	Three Variable Linear Regression Model 3.1 Introduction to the model 3.2 Estimation of the model by OLS method 3.3 Hypothesis testing					
Jan 8 – 17, 2024 (Day Order 1 to 6)	3	3.2 Estimation of the model by OLS method 3.3 Hypothesis testing	K1-K5	3	1-5	Problem Solving Methods	CAI Problem Assignment
Jan 18 - 23, 2025	C.A. Test - I						
Jan 24 -31, 2025 (Day Order 1 to 6)	3	3.4 Coefficient of determination 3.5 Functional form of regression models: Double Log, Semi Log, Reciprocal models	K1-K5	5	1-5	Participatory Learning Methods	CAII Problem Assignment
Feb 3-8, 2025 (Day Order 1 to 6)	4	Econometric with Qualitative/Quantitative Independent variables 4.1 Introduction to dummy variables 4.2 Regression using Dummy Variables	K1-K4 K1-K5	5	1-5	Experiential Learning Methods	CAII
Feb 10– 18, 2025 (Day Order 1 to 4)	4	4.3 Testing for structural stability of regression models 4.4 Interaction Effects	K1-K5	5	1-5	Problem Solving Methods	CAII Problem Assignment

Feb 19- 26, 2025 (Day Order 1-6)	4	4.5 Seasonal Analysis	K1-K5	4	1-5	Problem Solving Methods	CAII Problem Assignment
Feb 27- Mar 6, 2025 (Day Order 1 to 6)	5	Simultaneous Equation Models 5.1 Introduction to simultaneous equation models	K1-K3	5	1-5	Participatory Learning Methods	CAII
Mar 7 – 11, 2025 (Day Order 1 to 3)	5	5.2 Simultaneous equation bias- Simple Keynesian model of income determination	K1-K4	4	1-5	Participatory Learning Methods	CAII
Mar 12 –17, 2025	C.A. Test - II						
Mar 18 – 20, 2025 (Day 4 to 6)	3	3.4 Coefficient of determination 3.5 Functional form of regression models: Double Log, Semi Log, Reciprocal models	K1-K5	3	1-5	Problem Solving Methods	Data Analysis using economic data
Mar 21 - 28, 2025 (Day Order 1 to 6)	2 3	2.8 Estimation of a two variable by model 3.2 Estimation of the model by OLS method 3.3 Hypothesis testing	K1-K5	5	1-5	Problem Solving Methods	Data Analysis using economic data
Mar 29- April 2, 2025 (Day Order 1 to 3)	REVISION						