LORETO COLLEGE TIME PLAN 2022 SEMESTER III

ECONOMICS CORE COURSE VII (CC-VII): STATISTICAL METHODS FOR ECONOMICS

Name of the teacher: Dr. Rupa Ghosh Initials: RG

Teaching Objectives:

- To impart comprehensive knowledge about basic statistics and its use in Economics.
- To guide students to analyse and solve economic problems independently with logical reasoning using statistics.
- To prepare students for studying higher mathematical science using statistics. .

Topics	Hours	Topics	Teaching	Learning outcome	Assessment
	allotted	(as per curriculum)	method	(output)	
1	06	Core Course 7: Statistical Methods	Lecture,	To understand the	Continuous
		for Economics: Subject-matter - the	board work	subject matter of	Internal
		distinction between population and	and	Statistics and the	Assessment,
		sample; Representation of data-	presentation.	various basic tools of	Internal
		graphical (line diagram, bar diagram,		data handling and	Examinations
		pie chart) and tabular method;		representation.	and University
	10	Frequency Distribution.	T (T : 1 1 1	Examinations.
2	13	Descriptive Statistics	Lecture,	lo gain knowledge	Continuous
		Measures of central tendency	board work	about the content of	
		(arithmetic mean, geometric mean,	and	and its uses in	Assessment,
		harmonic mean, median and mode,	presentation.	Economic	Examinations
		and their properties, Quartiles,		applications	and University
		Deciles and Percentiles);Dispersion		apprications.	Examinations
		(range, quartile deviation, mean			Linuininutions
		deviation, standard deviation,			
		coefficient of variation, coefficient of			
		mean deviation, coefficient of			
		quartile deviation, Lorenz curve and			
		Gini coefficient);Moments,			
		Skewness and Kurtosis (definition,			
		computation); Correlation and			
		Regression (definition, computation,			
		properties).			
3	10	Elementary Probability Theory	Lecture and	To understand the	Continuous
		Sample spaces and events (concepts	board work	basics of probability	Internal
		and definitions using set theory);		theory and to be able	Assessment,
		Axiomatic definition of probability		to compute sums on	Internal
		and properties, theorem of total		probability	Examinations
		probability; Conditional probability,			and University
		theorem of compound probability;			Examinations.
		Bayes 'theorem and its applications.			
4	18	Probability Distributions	Lecture and	To understand	Continuous
		l ř	board work.	probability	Internal

3rd Semester Topic-wise Time Plan- Honours

		continuous); Probability distributions (pmf, pdf. Distribution functions); Expected values of random variables (mean, variance, raw moment, central moment, moment generating functions); Properties of commonly used discrete and continuous distributions: Binomial - (derivation of pmf, mean, variance, moments, moment generating functions, problems) Poisson - (derivation of pmf, mean, variance, moments, moment generating functions, problems) Normal - (derivation of pdf, mean, variance, moments, moment generating functions, problems) Normal - (derivation of pdf, mean, variance, moments, moment generating functions, problems);Joint distribution functions of random variables (discrete and continuous) - joint pdf (pmf), marginal pdf (pmf)., conditional pdf (pmf).		be able to compute sums on probability distributions	Assessment, Internal Examinations and University Examinations.
5	14	Sampling Principal steps in a sample survey (concepts of population, sample, parameter, statistic); Methods of sampling-SRSWR, SRSWOR (use of random sampling numbers) Stratified sampling (basic concepts only) Multi-staged sampling (basic concepts only) Sampling distribution of sample mean and sample proportion; Mean and standard error both in SRSWR and SRSWOR, Standard normal, chi-square, Student 's t and F distributions – definitions, important properties (mean and variance).	Lecture, board work and presentation.	To comprehend basic theories of sampling and various techniques of sampling with examples. To understand and analyse various sampling distributions and their properties.	Continuous Internal Assessment, Internal Examinations and University Examinations.
6 Tutorial	contact hou	Statistical inference Point Estimation-Properties of a good estimator; Basic principles of Ordinary Least Square, Maximum Likelihood Method Method of Moments; Interval estimation. Testing of hypothesis (basic concepts of null hypothesis, alternative hypothesis, type I and Type II errors, power of a test, p-value).	Lecture and board work.	To gain knowledge about statistical inference and its uses.	Continuous Internal Assessment, Internal Examinations and University Examinations.

TIME PLAN 2022

Name of the teacher: Dr. Suranjana Mitra Initials: SM

Teaching Objective:

- To help students to understand the importance of Keynesian economics
- To help students to gain insight about Complete Keynesian Model in a closed economy
- To help them to understand the difference between the Classical and Keynesian system
- To help them to gain insight about the components of money supply realise the importance of balance sheet and government's budgetary operations
- To help students to understand the link between inflation and unemployment and the role of expectations

Topics	Hours allotted	Topics (as per curriculum)	Teaching method	Learning outcome (output)	Assessment
1 Income Determination in the short- run: IS-LM	14	Equilibrium, stability and comparative statics, crowding out, effects of fiscal and monetary policy	Lecture and discussion	Understand the concepts of IS- LM model	Tutorial and Assignment
2. Aggregate Demand and Aggregate Supply: The Complete Keynesian Model	14	Derivation of aggregate demand curve, derivation of aggregate supply curves both in the presence and absence of wage rigidity, equilibrium, stability and comparative statics- effects of fiscal and monetary policies, effects of wage-cut	Lecture and discussion	Understand the importance of CKM in the field of macroeconomics	Tutorial and Assignment
3. Keynes vs Classics	10	Keynesian vs Classical system, Hybrid models under Classical/Keynesian framework, Friedman's restatement of classical ideas	Lecture and discussion	Understand the hybrid models to make a comparative appraisal	Assignment

3rd Semester Topic-wise Time Plan (Honours) (Intermediate Macroeconomics I)

4. Money	17	Measure of money supply	Lecture and	Gain knowledge	Assignment
supply,		with special reference to	discussion	about the	
Monetary		India (M1 M2 M3 and	0.000.00.01	measures of	
Policy and		M4) Balance sheet		money supply	
Government		review of money supplied		halance sheet of	
Budgetary		by the banking sector as a		the banking	
Operations		by the ballking sector as a		costor and	
		whole, High-powered		Sector and	
		money, Balance sneet of		government s	
		Reserve Bank of India and		budgetary	
		High powered money,		operations and	
		Balance sheet of		relate them to	
		commercial banks and		reality	
		basic ideas of money			
		multiplier theory, deposit			
		multiplier, currency			
		multiplier, reserve			
		multiplier, credit			
		multiplier, money			
		multiplier in the context			
		of theory of money			
		supply, Interest			
		sensitivity of money			
		supply and the slope of			
		LM curve, monetary			
		policy government			
		budget deficit and deficit			
		financing-Indian			
		illustration			
5 Inflation	20		Locturo and	Poplico tho	Tutorial and
Unemployment	20		discussion	importance of	Accignment
and		gap, demand-puil	discussion	importance of	Assignment
expectations		inflation and cost-push		the relation	
expectations		Inflation, Mark-up		between	
		inflation, concept of		inflation and	
		stagflation, Central		unemployment	
		Bank's role in controlling		and the role of	
		inflation, Inflation and		expectations.	
		unemployment trade-off,			
		Models of aggregate			
		supply, Deriving the			
		Phillips curve from			
		aggregate supply curve,			
		Role of adaptive			
		expectations and rational			
		expectations, disinflation,			
		expectations, disinflation, sacrifice ratio and policy			

LORETO COLLEGE TIME PLAN (July 2022 - Dec 2022)

Name of the teacher: Mainak Bhattacharjee Initials: MB

Teaching Objective:

- To Introduce with the key concepts of statistical enumeration, both descriptive and inferential aspects
- To impart theoretical concepts relating methodological techniques of data collection, processing, representation and interpretation using applications using software, like, Microsoft Excel and STATA.
- To impart knowledge on some key broad-spectrum statistical surveys conducted in India, like Census and Sample Survey on population, demography, household consumption expenditure and the like.
- To impart acquaintance with different databases on Indian Economy.

Topics	Hours	Topics	Teaching	Learning outcome	Assessment
	allotted	(as per curriculum)	method	(output)	
1.Collection	12	Collection and	Lecture	Assimilation of	Assignments,
and		Representation of Data,	Demonstration	theoretical	Tutorial
Representation		Census and Sample	and	knowledge in data	
of Data		Survey, Basic Data	Interaction	mining along with	
		Processing using MS		some basic skills	
		Excel and STATA.		necessary for its	
				practical	
				application using	
				standard software	
				package	
2. Indian	18	Indian Official Statistics:	Lecture	Gathering hands-	Assignments,
Official		CSO (National Accounts	Demonstration	on knowledge in	Tutorial
Statistics		Statistics), NSSO	and	methodological	
		(Household	Interaction	and other	
		Consumption		analytics aspects	
		Expenditure &		of the major	
		Employment and		statistical survey	
		Unemployment Survey)		on key elements	
		, RBI's Handbook of		of Indian	
		Statistics on Indian		Economy	
		Economy			

3rdSemester Topic-wise Time Plan (SEC -A(1)/ Data Analysis)

LORETO COLLEGE TIME PLAN JULY 2022-DECEMBER 2022

3rd Semester Topic-wise Time Plan Paper: ECO-A-CC-5 Intermediate Microeconomics-I

Name of the teacher: Nilavo Roy Initials: NR

Teaching Objective:

- To divulge the various dimensions of modern consumer theory and its applications
- To elucidate the theory of firms and their operation in perfectly competitive environment
- To expound the structure of the input market and aspects of distribution theory

Topics	Hours	Topics	Teaching	Learning outcome	Assessment
	allotted	(as per curriculum)	method	(output)	
Unit 1	17 hours	a)Intertemporal Choice Theory; b) Revealed Preference; c)Choice under uncertainty; d)Index Numbers	a)Interactive Lecture b)Demonstration c)Problem solving	a)Introduction to multifarious applications of consumer behaviour b)Ability to compare the risk behaviour of consumers	Tutorials and Assignments
Unit 2	20 hours	a)Production Theory in short and long run; b)Variants of technology; c)Types of costs and related issues.	a)Interactive Lecture b)Demonstration c)Problem solving	a)Knowledge of entrepreneur's optimization exercise b) Understanding the relationship between various cost measures	Tutorials and Assignments
Unit 3	20 hours	a)Profit maximization under perfect competition; b)Competitive equilibrium; c)Economic rent	a)Interactive Lecture b)Demonstration c)Problem solving	a)Introduction to profit maximization in competitive environment; b) Understanding the essence of long run and short run competitive equilibrium	Tutorials and Assignments
Unit 4	18 hours	a)Marginal productivity theory of distribution; b)Labour market analysis; c) Land market and rent	a)Interactive Lecture b)Demonstration c)Problem solving	a)Acquaintance with the theory of distribution b)Ability to decipher the supply-demand framework in labour and land market	Tutorials and Assignments

LORETO COLLEGE TIME PLAN JULY 2022-DECEMBER 2022 3rd Semester Topic-wise Time Plan Paper: ECO-GE-3 Issues in Economic Development and India

Name of the teacher: Nilavo Roy Initials: NR

Teaching Objective:

- To describe the salient aspects of economic progress from different perspectives
- To explicate the pattern and causes of growth and disparity among nations
- To introduce the vicissitudes of Indian economy in light of different policy regimes

Topics	Hours allotted	Topics (as per curriculum)	Teaching method	Learning outcome (output)	Assessment
Unit 1	25 hours	a)Growth vs Development; b)Human Development; c) Features of Underdevelopment; d) Development of Indian Economy under different policy regimes	a)Interactive Lecture b)Demonstration c)Problem solving	a)Introduction to the diverse themes of development economics b)Ability to appreciate the different policy approaches in India	Tutorials and Assignments
Unit 2	20 hours	a)Poverty and inequality— concepts and measures; b) Trends and policy approaches to poverty and inequality in India.	a)Interactive Lecture b)Demonstration c)Problem solving	a)Knowledge of measuring poverty and inequality b) Understanding the relationship between poverty and inequality.	Tutorials and Assignments