



SOPHIA GIRLS' COLLEGE(AUTONOMOUS), AJMER



COURSE_PLAN_2020-21_MS_DIVYA_MISHRA



SOPHIA GIRL'S COLLEGE, AJMER (AUTONOMOUS)

B.A I (SEMESTER I)

Micro Economics-I (PAPER I) (ECO-101)

(MICRO-ECONOMICS)

Max. Marks : 75 (50Ext; 25 Int)

Min. Marks: 30(20 Ext;10 Int)

Credit: 03

COURSE PLAN

SEM I Month	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Weightage (%)
SEM I Aug	UNIT I Nature and scope of Economics; Methodology in Economics; Choice as an economic problem; basic postulates;	What is Scarcity? Methodologies used in framing theories in economics.	PPT Quiz Group Discussion	Illustrate the basic framework of micro- economics	<u>Knowledge Based</u> -What is Economics? -Illustrate the normative and positive economics?	Knowledge--60 Understanding-30 Higher Order-10
Sept	Role of Price Mechanism; Demand and Supply- Basic framework and applications	Law of demand and supply. Factors affecting demand and supply.	Quiz E-content		<u>Understanding Based</u> - Analyse the role of price mechanism. -Evaluate cardinal approach to find consumer equilibrium.	
	Market equilibrium.	Types of equilibrium.				
Sept- Oct	UNIT II Elasticity of demand: Price, Income and Cross,	What is elasticity and its types. Significance of elasticity in the field of economics.	Mathematical derivation. Problem Solving	Anticipate the consumer behaviour	<u>Higher Order Thinking Skills Based</u> -estimate price effect, income effect and substitution effect. -Discuss law of	
Oct	Utility: Cardinal and Ordinal approaches; Indifference curve – Concepts and properties, Budget line,	Utility and Consumer Behaviour.	Quiz Lecture cum Demonstration			
Nov	Consumers equilibrium: Price, Income and	Consumer Equilibrium.	Problem solving Lecture cum			



	Substitution effect (Hicks and Slutsky); Giffen goods		Demonstration		variable proportion.	
Dec- Jan	UNIT II Engle curve; Consumer surplus.	Consumer Surplus.	Lecture cum Demonstration	Deduce the actions of a producer over a period of time		
Feb	UNIT III Production function: Law of variable proportions, Returns to scale, Concepts of Isoquants, Isocost line, Least cost combinations, Concept of Ridge lines	Production function. Law of variable proportion and Returns to Scale	E- content Video Lectures.			
March	Economies of scale; Expansion path.	Economies of scale.	Quiz. E- content Video Lectures			

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B.A ECO. HONS. I (SEMESTER I)
MICRO-ECONOMICS-I (PAPER I) (ECOH-101)

(MICRO-ECONOMICS)

Max. Marks : 75 (50Ext; 25 Int)

Min. Marks: 30(20 Ext;10 Int)

Credit: 03

COURSE PLAN

SEM I Month	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Weightage (%)
SEM I Aug	UNIT I Nature and scope of Economics; Methodology in Economics; Choice as an economic problem; basic postulates;	What is Scarcity? Methodologies used in framing theories in economics	PPT Quiz Group Discussion	Illustrate the basic framework of micro- economics	<u>Knowledge Based</u> -Define Economics? -Illustrate price mechanism.	Knowledge--60 Understanding-30 Higher Order-10
Sept	Role of Price Mechanism; Demand and Supply- Basic framework and applications	Law of demand and supply. Factors affecting demand and supply.	Quiz E-content		<u>Understanding Based</u> - Analyse the concept of consumer surplus.	
	Market equilibrium.	Types of equilibrium			-Evaluate ordinal approach of utility.	
Sept- Oct	UNIT II Elasticity of demand: Price, Income and Cross,	What is elasticity and its types. Significance of elasticity in the field of economics.	Mathematical derivation. Problem Solving	Anticipate the consumer behavior	<u>Higher Order Thinking Skills Based</u> -estimate price effect, income effect and substitution	
Oct	Utility: Cardinal and Ordinal approaches; Indifference curve – Concepts and properties, Budget line,	Utility and Consumer Behaviour.	Quiz Lecture cum Demonstration			
Nov	Consumers equilibrium: Price, Income and Substitution effect (Hicks and Slutsky); Giffen goods	Consumer Equilibrium.	Problem solving Lecture cum Demonstration			



Dec- Jan	UNIT II Engle curve; Consumer surplus.	Consumer Surplus	Lecture cum Demonstration	Deduce the actions of a producer over a period of time	effect. -Discuss law of variable proportion.	
Feb	UNIT III Production function: Law of variable proportions, Returns to scale, Concepts of Isoquants, Isocost line, Least cost combinations, Concept of Ridge lines	Production function. Law of variable proportion and Returns to Scale	E- content Video Lectures.			
March	Economies of scale; Expansion path.	Economies of Scale	Quiz. E- content Video Lectures			

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B.A ECO. HONS. I (SEMESTER I)
QUANTITATIVE TECHNIQUES (PAPER IV) (ECOH-104)

(QUANTITATIVE TECHNIQUES)

Max. Marks : 75 (50Ext; 25 Int)

Min. Marks: 30(20 Ext;10 Int)

Credit: 03

COURSE PLAN

SEM I Month	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Weightage (%)
SEM I Aug	UNIT-I Basic Concepts: Variables, Sets, Functions, Identities, Systems of equations, Application of straight line system, Slope of the line, Homogeneous function;	Functions and equations	PPT Problem solving Each one teach one	Interpret the basic concepts of quantitative techniques in economics	Knowledge based- -Define variables. -Find the 10 th term of the following series.	Knowledge--60 Understanding-30 Higher Order-10
Sept	UNIT-I Arithmetic and Geometric progression. Logarithm.	AP, GP and Logarithm	Problem solving Each one teach one		Understanding based- -Solve the following equations using Cramer's rule.	
	UNIT-II Calculus- Differentiation of a function	Differentiation	Problem solving Peer group learning		-Evaluate the first order differentiation of the equation.	
Sept- Oct	UNIT-II Calculus-partial differentiation and high order differentiation	Calculus	Practice test	Use the concepts of calculus in economics	<u>Higher Order Thinking Skills Based</u> -construct the index number and	
Oct	UNIT-II Matrix and Determinants: Various types of Matrices, Determinants	Vector Algebra	Understanding solution path Problem solving			
Nov	UNIT-II Inverse of a Matrix, Cramer's Rule	Simultaneous equations	Problem solving			



Dec- Jan	UNIT-II Integration of a function	Integration	Practice test	Formulate index numbers	prove that Fisher's method is the ideal one.	
Feb	Index Numbers: Concept, Price relative, Quantity relative and Value relative, Laspeyer's, Paasche's, Fisher, Family budget method.	Index Number	Practical examples Problem solving			
March	Tests for Ideal index number, Problems in the construction and limitations of index numbers.		Group discussion			

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B.A ECO. HONS. II (SEMESTER III)
DEVELOPMENT ECONOMICS (PAPER I) (ECOH-301)

(DEVELOPMENT ECONOMICS)

Max. Marks : 75 (50Ext; 25 Int)

Min. Marks: 30(20 Ext;10 Int)

Credit: 03

COURSE PLAN

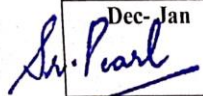
SEMV Month	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Weightage (%)
SEM I JULY	UNIT-I Concept of economic growth and development; Factors affecting economic growth; Characteristics of developed and underdeveloped countries; Inequality and Growth: the inverted 'U' curve hypothesis	Growth and Development	PPT and online teaching	Illustrate the concept and difference between growth and development	<u>Knowledge Based</u> -Define sustainable development? -Illustrate Kuznet curve. <u>Understanding</u>	Knowledge--50 Understanding-35 Higher Order-15




Aug	Economics of Education: Meaning, Scope, as an instrument for economic growth to reap demographic dividends.	Economics of education	Presentations by the students brainstorming		<u>Based</u> - Analyse the concept of human development. -Evaluate the role of education in the process of development.
Aug	Economics of Health: Meaning, Scope, as an instrument for economic growth to reap demographic dividends.	Economics of health	Brainstorming Presentations by the students Case studies		
Sept	UNIT-II Measuring development gap: GNP, PQLI, HDI, Gini coefficient and Lorenz curve; Human Resource Development and its measurement (education, health & income)	Measuring development gap	PPT E-content Audio lectures	Estimate development gap using various methods	<u>Higher Order Thinking Skills</u> <u>Based</u> -critically evaluate Harrod's growth model.
Oct	Economic development and institutions: Market and market failure, State and state failure.	Market and state failure	PPT Group discussions		
Nov	UNIT-III Growth models: Harrod and Domar	Harrod –Domar model	Explanation and showing current relevance Problem solving	Summarize various growth models	
Dec- Jan	Neo- classical growth models: Solow, Meade, Mrs. Joan Robinson	Neo-classical growth models	Explanation and showing current relevance		
	Technological Progress: Embodied, Disembodied, Hicks and Harrod.	Technological progress	Discussion Problem solving		

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B.A ECO. HONS. III (SEMESTER V)
Mathematical Economics-I (PAPER II) (ECOH-502)

(MATHAMETICAL ECONOMICS)

Max. Marks : 75 (50Ext; 25 Int)

Min. Marks: 30(20 Ext;10 Int)

Credit: 03

COURSE PLAN

SEMV Month	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Weightage (%)
SEM I JULY	Maxima and Minima (critical points); convexity and concavity);	Maxima and Minima	Ask questions that reveal and build understanding Problem solving	Operate optimization technique in order to achieve the objectives	<u>Knowledge Based</u> -Define optimisation? -find maxima from the following function.	Knowledge--40 Understanding-40 Higher Order-20
	Optimisation: constraint optimisation- global optima and local optima (Total Derivative Method and Lagrange Multiplier	Techniques of Optimisation	Practice test Peer group teaching		<u>Understanding Based</u> - derive the ordinary demand curve. -estimate the producer surplus.	
AUGUST	Cost and Revenue functions; Derivation of Cost curves; Relation between total, average and marginal cost and revenue; Production Possibility Curve	Cost and Revenue Curves	Problem solving			
SEPTEMBER	Consumer Theory: Utility function; Budget line; Consumer's equilibrium;; Derivation of demand curve;	Consumer Behaviour	Discussion Lecture cum demonstration	Construct mathematically the consumer behavior	<u>Higher Order Thinking Skills Based</u> -estimate price effect, income effect and substitution effect through Slustsky	
	Income effect, Substitution effect and Price effect; Slutsky equation		Practice test Assignments Problem solving			
OCTOBER	Elasticity of demand	Elasticity of demand	Problem solving			



OCTOBER- November	Theory of production: Properties of production function- Homogeneous, non- homogeneous, Cobb-Douglas, CES, Returns to scale; Technology progress and production function; Choice of optimal combination of factors of production	Production functions	Problem solving Lecture cum demonstration	Construct mathematically the production function	equation.	
Dec- Jan	Consumer surplus and Producer surplus	Consumer Surplus and Producer Surplus	Practice test Peer group teaching			
Feb- March	Introduction of Difference and Differential Equations.		Problem solving Lecture cum demonstration			

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B.A ECO. HONS. III (SEMESTER V)
DATA ANALYSIS THROUGH SPSS and EViews (PAPER IV) (ECOH-504)

(DATA ANALYSIS THROUGH SPSS AND EViews)

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Max. Marks : 75 (50Ext; 25 Int)

Min. Marks: 30(20 Ext;10 Int)

Credit: 03

COURSE PLAN

SEM Month	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Weightage (%)
SEM I JULY	Introduction to SPSS: Data Entry, Data Editor, Basic calculations	Introduction to SPSS	Video lectures	Tabulate data using SPSS	<u>Knowledge Based</u> -Define variable? -Illustrate the steps to build charts using SPSS.	Knowledge--40 Understanding-40 Higher Order-20
	Frequencies, Missing values, Split files, Import Export Files Using EXCEL Data	Importing and exporting data files	Demonstration on software			



AUGUST	Visual Statistics: Chart Builder, Histograms, Box plots, Bar Charts, Line Charts, Pie Charts, Editing graphs and Axes.	Chart building	PPT Video lecture	Analyze cross-sectional data using SPSS	<u>Understanding Based</u> -determine the steps involved in saving output files in EViews. -Evaluate the application of t-Test using SPSS.
SEPTEMBER	Data Analysis Using SPSS: Mean, T-test, One way ANOVA, Non Parametric Tests, Normality test. Linear	Data analysis	Video lectures Demonstrations		
OCTOBER	Correlation and Regression.	Correlation and regression	Video lectures		
Nov- Dec	Unit- III Basic introduction of Eviews- overview of the EViews, creating work files, saving your work	Introduction of Eviews	PPT Video lectures	Analyze time-series data using EViews	<u>Higher Order Thinking Skills Based</u> -examine the significance of parametric test.
Jan	command description, frequency conversion, basic graphs	Data transformation	Discussion Lecture cum demonstration		
Feb	linear regression model and correlation model.	Regression and correlation	Video lectures Demonstration		


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M.A Political Science Final (SEMESTER III)
Research Methodology (PAPER V)

(RESEARCH METHODOLOGY)

Max. Marks : 75 (50Ext; 25 Int)

Min. Marks: 30(20 Ext;10 Int)

Credit: 03

COURSE PLAN

SEM V Month	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Weightage (%)
SEM I Aug	UNIT-I Research Methodology :An Introduction Meaning of Research, Objectives of Research, Motivation in Research	Meaning, objectives and motivation in research	Discussions Brainstorming	Enumerate the meaning, types, significance and criteria of a good research	Knowledge based- Write the difference between census and sample survey.	Knowledge--20 Understanding- 40 Higher Order- 40
Sept	Types of Research. Research Approaches. Significance of Research.	Types of research	Illustration with examples Audio lecture		Understanding Based- Discuss the significance of research. Examine the importance of scientific research.	
Sept	Research Methods and Methodology , Research and Scientific Method Research Process Criteria of Good Research. Research Problems	Research methods and process	Case studies Group discussions			
Oct- Nov	UNIT-II Research Design Meaning, Types. Sampling	Research design and sampling	PPT Video lectures	Deduce research design, explain sampling process and	Higher order- Calculate the	



	Meaning, Types and Significance. Difference between Census and Sample Survey.			classify methods of data collection	mean from the following set of data Examine the characteristics of a good Questionnaire.	
Jan	Methods of Data Collection Meaning of Data Types of Data- Primary and Secondary	Primary and Secondary data	Discussion Problem solving			
Jan	Collection of Primary Data through Observation , Interview Questionnaires and Schedules, Difference between Questionnaires and Schedules. Collection of Secondary Data	Methods of primary and Secondary data collection	Demonstration Brainstorming Assignments			
Feb	UNIT-III Processing and Analysis of Data Data Analysis - Coding, Tabulation and Interpretation. Measures of Central Tendency - Mean, Median, Mode.	Data analysis	Practice test Problem solving	Analyze the methods of data analysis, evaluate measures of central tendency and assess techniques of report writing		
Feb	Techniques of Report Writing Organised Paragraph, Chapters, Footnotes, References and Bibliography.	Report writing techniques	Demonstration Review of Literature			
March	Scientific Enquiry in Social Sciences - Definition, Scope,	Scientific enquiry in Social Science.	Group discussion.			

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Goals and Limitations.

SOPHIA GIRL'S COLLEGE, AJMER (AUTONOMOUS)

B.A ECO. HONS. III (SEMESTER V)

PRACTICALS Data Analysis through SPSS and EViews (ECOH-505)

Max. Marks: 30(20Ext; 10 Int)

Min Marks: 12(8 Ext;4 Int)

Credit: 02

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COURSE PLAN

SEM Month	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Weightage (%)
SEM I July- August	Introduction to SPSS: Data Entry, Data Editor, Basic calculations, Frequencies, Missing values, Split files, Import Export Files Using EXCEL Data Visual Statistics: Chart Builder, Histograms, Box plots, Bar Charts, Line Charts, Pie Charts, Editing graphs and Axis.	Entering data, visual statistics	Demonstration on the SPSS software Hands on training	To develop skills and competency regarding data analysis using SPSS and EViews.	<u>Knowledge Based</u> Practical File Work <u>Understanding Based</u> Run the softwares <u>Higher Order Thinking Skills Based</u> Interpret the output file. Viva Voce	Knowledge--30 Understanding-50 Higher Order-20



Sept-Dec	Data Analysis Using SPSS: Mean. T-test. One way ANOVA, Non Parametric Tests, Normality test. Linear Correlation and Regression.	Data analysis using SPSS	Demonstration using SPSS software Hands on training			
Jan-March	Unit- III Basic introduction of EViews- overview of the EViews, creating work files, saving your work command description, frequency conversion, basic graphs linear regression model and correlation model	Data analysis using EViews	Demonstration using EViews Hands on training			


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SOPHIA GIRL'S COLLEGE, AJMER (AUTONOMOUS)

B.A I (SEMESTER II)

Micro Economics-II (PAPER I) (ECO-201)

(MICRO-ECONOMICS)

Max. Marks : 75 (50Ext; 25 Int)

Min. Marks: 30(20 Ext;10 Int)

Credit: 03

COURSE PLAN

SEM II Month	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Weightage (%)
SEM II April	UNIT I Concepts of Revenue and Cost, Relationships between Average Revenue, Marginal Revenue and Price elasticity of demand	Different Revenue and Cost curves.	Mathematical derivation. Problem Solving	Illustrate different cost and revenue curves.	<u>Knowledge Based</u> -What is opportunity cost? -Illustrate the characteristics of perfect competition?	Knowledge--60 Understanding-30 Higher Order-10
April	UNIT I Market Structures: Perfect and Imperfect markets	Difference between perfect and imperfect market structure.	Audio tutorials	Analyse equilibrium under different market conditions	<u>Understanding Based</u> -Discuss the collective bargain theory. -Evaluate scarcity rent theory.	
	Price and output determination in Perfect competition	Equilibrium under Perfect competition.	Quiz Group Discussion			
	Monopoly, Price discrimination under Monopoly; Measures of Monopoly power	Equilibrium under monopoly.	Flip-classroom Story telling Problem solving		<u>Higher Order Thinking Skills Based</u> -estimate price and output under the monopoly market. -Derive the	
May	UNIT I Monopolistic, Oligopoly (Paul M. Sweezy model)	Equilibrium under monopolistic competition and oligopoly.	Group Discussion E-content	Analyse the general theories of distribution		
	UNIT II Factor market.		Quiz.			



	General theories of Distribution: The Marginal Productivity Theory and Modern Theory; Theories of Wage Determination; Collective bargaining, Wage Differentials		Problem solving		relationship between AR, MR and e.	
	Profits: Innovation, Risk and Uncertainty Theories.	Profit.	Presentations by Students Case Study			
July	UNIT II Rent: Scarcity Rent, Differential Rent, Quasi Rent;	Rent	PPT Blended learning	Assess the concept of welfare theories.		
	Interest: Classical, Neo classical	Interest	Group Discussion PPT			
July	UNIT III Problems in measuring Welfare; Classical Welfare Economics; Pareto Criterion (Production, Consumption and Distribution); Concept of a Social Welfare Function; Compensation Principle: Kaldor and Hicks.	Economic welfare	Quiz. Brainstorming			

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B.A ECO. HONS. I (SEMESTER II)
STATISTICAL METHOD FOR ECONOMICS (PAPER IV) (ECOH-204)

(STATISTICAL METHOD FOR ECONOMICS)

Max. Marks : 75 (50Ext; 25 Int)

Min. Marks: 30(20 Ext;10 Int)

Credit: 03

COURSE PLAN

SEM II Month	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Weightage (%)
SEM II April	UNIT-I Introduction to Statistics- Population, Sample, Parameter, Frequency distribution, Cumulative frequency; Graphical and Diagrammatic representation of data	Population and sample. Graphical and diagrammatic representation of data.	Lecture cum Demonstration Presentations by the Students	Define sample.	Knowledge based- -Define data. -Find the geometric mean.	Knowledge--60 Understanding-30 Higher Order-10
April	Techniques of data collection; Primary and Secondary data.	Types of data	Lecture cum Demonstration	Compute the central tendencies and measures of dispersion	Understanding based- -Evaluate the standard deviation. -estimate the correlation coefficient.	
	Measures of Central Tendency: Mean, Median, Mode, Geometric Mean and Harmonic Mean	Central Tendency	Problem solving Peer Group Teaching			
	Measures of Dispersion: Range, Mean Deviation, Standard Deviation,	Dispersion	Problem solving Quiz			



	Coefficient of Variation, Quartile Deviation.				<u>Higher Order Thinking Skills</u>	
May	UNIT-II Correlation: Simple, Coefficient of Correlation- Karl Pearson and Rank Correlation, Partial and Multiple Correlation analysis	Correlation	Problem Solving Quiz	•Calculate the correlation and regression coefficients	<u>Based</u> -construct the seasonal indices.	
	Association of attributes	Association of attributes	Practical examples. Problem Solving			
May	Regression analysis: Estimation of regression line in a bivariate distribution (individual series), Least squares method, Interpretation of Regression coefficients.	Regression	Each one Teach one Practice test	•Anticipate future trends and indexes.		
July	UNIT III Interpolation and Extrapolation: Newton's and Binomial methods.	Interpolation and extrapolation	Practice questions Problem Solving			
	Time Series Analysis: Concept, Determination of regular, Trend and Seasonal indices.	Time series analysis	Practical examples Assignment Sheets			

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B.A ECO. HONS. II (SEMESTER IV)
DEVELOPMENT ECONOMICS (PAPER I) (ECOH-401)

(DEVELOPMENT ECONOMICS)

Max. Marks : 75 (50Ext; 25 Int)

Min. Marks: 30(20 Ext;10 Int)

Credit: 03

COURSE PLAN

SEM & Month	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Weightage (%)
SEM IV March	UNIT I Partial theories of growth and development: Vicious circle of poverty, Balanced growth (Rosenstein-Rodan)	Balanced growth theories	Flip classroom Brainstorming	•Explain the concept of dualism through various growth theories.	<u>Knowledge Based</u> -Define balanced growth? -Illustrate circular causation theory.	Knowledge--50 Understanding-35 Higher Order-15
April	Unbalanced growth (Hirschman), Rostow's stage theory, Circular causation,	Unbalanced growth theories, Stages of economic growth.	Group discussion Audio tutorials		<u>Understanding Based</u> - Analyse the role of international trade in the growth process..	
	Unlimited supply of labour,	Role of labour in growth.	Group discussion Story telling		-Evaluate the process of creative destruction.	
April	UNIT I Critical minimum effort thesis, Low equilibrium trap,	Role of investment in growth.	Explanation and showing current relevance Brainstorming	•Articulate the concept of innovation and trade to develop growth theories.	<u>Higher Order Thinking Skills</u>	
	UNIT II Classical model of growth; Schumpeter- Innovation, enterprise and process of 'creative destruction';	Innovation and growth.	PPT Case studies			



May	Karl Marx: theory of development	Class struggle and economic growth	Explanation and showing current relevance Storytelling		<u>Based</u> -critically evaluate the theory of Karl Marx.	
May	UNIT II Rejection of trade as the 'engine of growth'. Dualism- Technical, Financial and Social.	Role of international trade in growth and dualism.	Flip Classroom E-Content	•Evaluate the efficiency of investment plans.		
July	UNIT III Need for Investment criteria in LDC'S; Alternative investment criteria; Cost benefit analysis;.	Investment criteria and Cost benefit analysis.	Explanation and showing current relevance Problem Solving			
July	Need for planning; Types of planning: Democratic, Decentralized, Indicative, Micro level, Physical and Financial	Planning.	Discussion Assignments			

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B.A ECO. HONS. III (SEMESTER VI)
APPLIED STATISTICS (PAPER I) (ECOH-601)

(APPLIED STATISTICS)

Max. Marks : 75 (50Ext; 25 Int)

Min. Marks: 30(20 Ext;10 Int)

Credit: 03

COURSE PLAN

SEMVI Month	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Weightage (%)
SEM VI March	UNIT I Basic concepts and definitions of probability; Laws of addition and multiplication; Conditional probability; Bayes theorem (statement)	Laws of probability.	Practice test Brainstorming Peer group Teaching	•Speculate the trends using laws of probability.	<u>Knowledge Based</u> -Define probability? -Illustrate the steps of sampling distribution.	Knowledge--40 Understanding-40 Higher Order-20
April	Binomial, Poisson and Normal distribution.	Probability distribution.	Practice test Lecture cum Demonstration e-content		<u>Understanding Based</u> -determine confidence interval of the following series. -Evaluate the significance level of the following data.	
April	UNIT II Sampling and Sampling Distribution: Types of Sample survey, Population Parameters and Sample Statistics, Principles of sampling, Sampling Methods,	Types of sampling.	Lecture cum Demonstration Quiz	•Design the sample survey.		
	Sampling Distributions, Sampling distribution of sample mean (normal distribution and non-normal distribution)	Sampling distribution.	Problem solving Practice test		<u>Higher Order Thinking Skills Based</u> -examine the significance of parametric test.	
May	Estimation and Confidence Intervals: Point Estimation,	Estimation and confidence intervals of	Blended Learning			



	confidence interval estimation, interval estimation of population mean (mean known and mean unknown), Estimating Population size.	know mean and unknown mean.	Quiz			
May	UNIT III Hypothesis Testing: Rational for Hypothesis testing, General procedure of hypothesis testing, Hypothesis testing for population parameters with large samples (single and two population means), Hypothesis testing for small samples.	Hypothesis testing.	Demonstration from live examples. Storytelling	•Formulate and validate the hypothesis.		
July	Parametric and Non-parametric test: paired and unpaired t test, Z test, f test, ANOVA, chi-square test	Parametric and Non-parametric.	Problem solving Practice test.			

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B.A ECO. HONS. III (SEMESTER VI)
Mathematical Economics-II (PAPER II) (ECOH-602)

(MATHAMETICAL ECONOMICS)

Max. Marks : 75 (50Ext; 25 Int)

Min. Marks: 30(20 Ext;10 Int)

Credit: 03

COURSE PLAN

SEMVI Month	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Weightage (%)
SEM VI March	UNIT I Game theory: Introduction and Concept; Simple and Mixed strategy; Saddle point solution; Prisoner's dilemma;	Game theory and saddle point	Blended learning Problem solving	•Understand the concept of Game Theory.	<u>Knowledge Based</u> -Define Prisoner's dilemma? -find maxima profit of the monopolistic firm from the following function. <u>Understanding Based</u> - estimate the saddle point. -estimate the coefficient matrix of the following input-output model.. <u>Higher Order Thinking Skills Based</u>	Knowledge--40 Understanding-40 Higher Order-20
April	Pay off matrix of a game - Two-person-two-commodity and zero-sum game.	Pay off matrix of a game.	Problem solving			
April	UNIT III Linear programming- Graphic and Simplex method.	LPP.	Lecture cum demonstration	Designing the optimization behavior using LPP.		
May	UNIT II Market Structure/Pricing: Concept of equilibrium; Equilibrium of the firm under Perfect competition, Monopoly, Price discrimination, Monopolistic competition; Subsidies and Taxes	Market equilibrium	Problem Solving Quiz	Mathematically validate equilibrium under different market structures.		
May	UNIT II Economies of scale; Market equilibrium; Economic	Cobweb model	Discussion Problem solving	Designing the optimization behavior using		



	interpretation of time lag in function; Cobweb model.			input output analysis.	-estimate maximum profit using a Simplex method.	
July	UNIT III Input-Output analysis: The simple closed and open model; Linkages- concepts and measurement; Dynamic Input-Output model	Input output analysis.	Practice test Peer group Teaching			

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