Department of Economics
UCA&SS, MG University
Syllabus Blow up
SEMESTER- I

MICRO ECONOMICS – I, Paper-I

Lecture Numbers	Content of subject for teaching
Lecture-1	Introduction – Basic Economic concepts – Micro, Macroeconomics – Static, Dynamic Economics- Cardinal, Ordinal utility approaches.
Lecture-2	Ordinal utility Approach: Indifference curve analysis – Assumptions – Meaning of Indifference curve and Indifference Map
Lecture-3	Indifference curve analysis: Marginal Rate of Substitution – Principle of diminishing Marginal Rate of substitution and Properties of Indifference Curves
Lecture-4	Indifference curve analysis: Budget Line – Consumers Equilibrium – changes the Tastes and preference and Consumer's Equilibrium
Lecture-5	Indifference curve analysis: Hicks and Allen Substitution Effect – Slutsky substitution Effect
Lecture-6	Indifference curve analysis: Income and Substitution Effects (Slutsky and Hicks
Lecture-7	Consumer's Surplus – Concept Assumptions of Consumers Surplus – Measurement of Consumer's Surplus through cardinal Utility
Lecture-8	Consumer's Surplus through Indifference curve approach – Hicksian compensating variation and Equivalent Variation of Price change – Criticism
Lecture-9	Hicks Compensated Demand Curve – Graphical Explanation
Lecture-10	Revealed Preference Analysis: - Assumptions of Revealed Preference Theory - Revealed Preference Theory and Law of Demand
Lecture-11	Critical Evaluation of Revealed Preference Theory – Separation of Income, and substitution effects – Effects from price effect and Revealed Preference Theory
Lecture-12	Deviation of Indifference curve through Revealed Preference Approach
Lecture-13	Hick's Preference Hypothesis and Logic of Ordering – Distinction between Strong and Weak Ordering

Lecture-14	Hick's Preference Hypothesis and Logic of Ordering – The Direct Consistence Test; Law of Demand and Hicks Logical Ordering theory
Lecture-15	Hick's Preference Hypothesis and Logic of Ordering – Inferior goods and Logical ordering of Demand- Critical Evaluation of the Logical Ordering Theory.
Lecture-**16**	Production Theory – Isoquants curve – Meaning – Assumptions – Isoquant Map - MRTS
Lecture-17	Isoquants Theory: Iso Cost Line – Least cost combination of factors – Output maximizing combination for a given outlay
Lecture-18	Isoquants Theory: Expansion Path – Equation of the Expansion path – Effect o variation in prices of factor inputs
Lecture-19	Isoquants Theory: Technical Substitution effect- Separation of Expansion effect and Technical substitution effect from factor price effect
Lecture-20	Isoquants Theory: Substitute and complimentary factors – Elasticity of substitution between factors – Role of Elasticity of Substitution and Ridge lines
Lecture-21	Returns to Scale: Increasing, Constant and Diminishing Returns to Scale – Consistency of increasing returns to scale.
Lecture-22	Returns to Scale: Consistency of Constant returns to scale and Diminishing returns to scale
Lecture-23	Returns to Scale: economies and dis economies of Scale – Internal Economies and External economies
Lecture-24	Production Function: Meaning – Functional relations – Homogeneous production function and Cobb Douglas Production function
Lecture-25	Returns to Scale: Hicks and Harrod Technical Progress
Lecture-26	Concepts related to Costs: Money, Real, Opportunity costs – Short run and long run costs functions
Lecture-27	Cost Curves: Traditional costs theory TFC, TVC, TC, AFC, AVC, ATC or AC and MC curves.
Lecture-28	Cost Curves: Relation Between AC and MC - Long run cost Curves - LMC and LAC relation
Lecture-29	Modern Cost Theory: Short run Analysis – Average Fixed Cost and Average Variable Cost and Average cost

Lecture-30	Modern Cost Theory: L shaped Long run average cost curve; Engineering Cost curves – short run Engineering Costs and Long run Engineering Costs
Lecture-31	Revenue Curves: Total, Average and Marginal Revenue Curves in perfect competitions and Imperfect competition
Lecture-32	Revenue Curves: Break even Point Analysis – Firm and Industry Equilibrium – Optimum firm
Lecture-**33**	Perfect competition: Features of perfect competition – Market Equilibrium – Changes in demand and supply and equilibrium
Lecture-34	Perfect competition: Firm Equilibrium – Conditions for equilibrium
Lecture-35	Perfect competition: Optimum Firm – Long run and short run Firm equilibrium
Lecture-36	Perfect competition: Firm Equilibrium – Conditions for equilibrium –Long run and short run Industry equilibrium
Lecture-37	Perfect competition: Derivation of Supply curve – Monopoly – Features – Types of Monopolies
Lecture-38	Monopoly: Firm equilibrium in short run and Long run (explanation with graphs)
Lecture-39	Monopoly: Price Discrimination – Meaning and different types of Discriminations – conditions for discrimination of price in Monopoly
Lecture-40	Degree of monopoly Power equilibrium – Measurement of degree of monopoly power
Lecture-41	Comparison bet ween perfect competition and Monopoly
Lecture-**42**	Imperfect Competition: Concept of Monopoly competition – Features – Assumptions of Chamberlin's model
Lecture-43	Imperfect Competition: distinictio0n between monopoly and monopolistic competition
Lecture-44	Imperfect Competition: Long run and short run equilibrium of Individual firm
Lecture-45	Imperfect Competition: Product differentiation – Selling Costs.

Lecture-46	Imperfect Competition: Group equilibrium – graphical explanation
Lecture-47	Monopsony – Features – Assumptions – equilibrium of monopsony
Lecture-48	Bilateral monopoly – features – Assumptions – model
Lecture-49	Monopoly power – control and regulation of monopoly
Lecture-**50**	Duopoly Models: Augustin Cournot model of Duopoly – assumptions – graph – criticism
Lecture-51	Duopoly Models: Bertrand model of Duopoly – assumptions – graph – criticism
Lecture-52	Duopoly Models: Edgeworth model of Duopoly – assumptions – graph – criticism
Lecture-53	Duopoly Models: Stackelberg model of Duopoly – assumptions – graph – criticism
Lecture-54	Oligopoly: Meaning - Features - Assumptions Paul Sweeny's Kinked Demand Model
Lecture-55	Oligopoly: Pricing under Oligopoly Collusive with Cartel
Lecture-56	Oligopoly: Cartel with the aim of Joint profit maximization
Lecture-57	Oligopoly: Cartel with the aim of Market sharing
Lecture-58	Oligopoly: Cartel with market sharing agreement on quota

Subject: Macroeconomics-I, Paper-II

Lecture	Topic name	No of Hours
Unit-I	**National Income Accounting**	1 hour
1	Meaning of macroeconomics its scope and nature	1 hour
2	Different types of variables in macroeconomics	1 hour
3	Meaning of national income and different concepts in it	1 hour
4	Different methods of measurement of national income	1 hour
5	Production method its merits and demerits	1 hour
6	Income method its merits and limitations	1 hour
7	Expenditure method its advantages and disadvantages	1 hour
8	Income accruing method its merits and demerits	1 hour
9	Understanding the terms GDP, GNP and NDP, NNP in MP and FC	1 hour
10	Personal income, disposable income and Per-capita income	1 hour
11	Circular flow of income in two sector model (With S and I, Without S and I)	1 hour
12	Circular flow of income in three sector model	1 hour
13	Circular flow of income in four sector model	1 hour
14	Concept of social accounting and account for different sectors	1 hour
15	Input- output method of social accounting	1 hour

16	Flow of funds accounting its relative merits	1 hour
17	Balance of payment accounting its relative merits and demerits	1 hour
Unit-II	**Consumption function**	1 hour
18	Concept of consumption and its determinants	1 hour
19	Consumption function and its technical attributes (APC, MPC)	1 hour
20	Keynes psychological law of consumption (Assumptions and law)	1 hour
21	Implications of Keynes consumption function	1 hour
22	Short run & long run consumption functions (similarities and dissimilarities)	1 hour
23	Empirical evidence on consumption functions	1 hour
24	Absolute income hypothesis	1 hour
25	Relative income hypothesis	1 hour
26	Permanent income hypothesis	1 hour
27	Life cycle income hypothesis	1 hour
28	Past income hypothesis	1 hour
Unit-III	**Investment function**	1 hour
29	Meaning of the term investment and its types	1 hour
30	Similarities and dissimilarities between public and private investment	1 hour
31	Marginal efficiency of capital	1 hour

32	Marginal efficiency of investment	1 hour
33	Influence of policy measures on investment	1 hour
34	The profit theory of investment its merits and demerits	1 hour
35	The accelerator theory of investment (Fixed and flexible)	1 hour
36	Financial theory of investment	1 hour
37	Capital markets in India- its growth and development	1 hour
38	Analyzing the functioning and regulation of capital markets in India	1 hour
39	SEBI- Background, functions and performance	1 hour
Unit-IV	**Money supply**	1 hour
40	Definition of the term money and its functions	1 hour
41	Money supply meaning and its determinants and importance	1 hour
42	Theories of money supply	1 hour
43	Monetary transmission mechanism of money supply	1 hour
44	Monetary transmission mechanism of money supply in India	1 hour
45	RBI approach of money supply in India	1 hour
46	High powered money its features and importance	1 hour
47	The concept of money multiplier its importance	1 hour
48	Budget deficits and money supply in India	1 hour
49	Methods of money supply control in India	1 hour

50	Analysis of trends and variance in money supply in India	1 hour
Unit-V	**Demand for Money**	1 hour
51	Definitions of demand for money and its determinants	1 hour
51	Classical approach of demand for money	1 hour
52	Fishers quantity theory of money (Fishers equation)	1 hour
53	Cambridge quantity theory (Robertson, Pigou and Marshall equations)	1 hour
54	Keynes liquidity theory of demand for money	1 hour
55	Transactions and precautionary motives of demand for money	1 hour
56	Speculative motive of demand for money	1 hour
57	Aggregate demand for money	1 hour
58	Derivation of LM curve from Keynes demand for money theory	1 hour
59	Empirical evidence on demand for money	1 hour
60	Status of demand for money in India	1 hour

Quantitative Methods-I, Paper-III

Sl.no.	Name of the Topic	Number of Hours
1	Introduction to Quantitative Methods (QM)- Need and usage of QM	1 hour
2	Definition of Mathematical Economics and its explanation	1 hour
3	Uses of Mathematical Economics for the development of subject	1 hour
4	Limitations of mathematical Economics	1 hour
5	Concept of Mathematical function and how it is used in Economics	1 hour
6	Types of Functions- Linear Function and non-linear function, Quadratic function	1 hour
7	Types of Functions-Cubic Function, Exponential Function, Log Function.	1 hour
8	Concept of Derivative explanation by taking examples of economics	1 hour
9	Rules of differentiation-Constant Function rule, Linear function Rule, power function	1 hour
10	Interpretation of differentiation for Revenue function and Cost function	1 hour
11	Interpretation of differentiation for Demand function, Consumption function and Supply function and elasticities and their types.	1 hour
12	Concept of Multi-variable Function explanation by taking examples of economics	1 hour
13	Types of Production functions- short-run production function & Long-run production function.	1 hour
14	Rules of partial differentiation- Quotient rule and product rule with examples	1 hour
15	Interpretation of partial differentiation for Demand function, production functions	1 hour

16	Interpretation of partial differentiation for cost function and Revenue function	1 hour
17	Problem of Maxima and Minima in single-variable functions	1 hour
18	Problem of Maxima and Minima in multi-variable functions	1 hour
19	Introduction to statistics – origin and development of statistics	1 hour
20	Definitions of statistics and explanation of it salient features and.	1 hour
21	scope of statistics - Uses of statistics in economics	1 hour
22	Limitations of statistics	1 hour
23	Methods of data collection- Census method and Sample method	1 hour
24	Advantages and disadvantages of Census method of data collection	1 hour
25	Advantages and disadvantages of Sample method of data collection	1 hour
26	Measurement of central Tendency- Mean, Median & Mode	1 hour
27	Measurement of Mean in three series of data- individual, Discrete and continuous series of data	1 hour
28	Mathematical properties of Arithmetic mean	1 hour
29	Merits and Demerits Arithmetic mean	1 hour
30	Measurement of Median in three series of data- individual, Discrete and continuous series of data	1 hour
31	Mathematical properties of median	1 hour
32	Merits and Demerits of Median	1 hour
33	Measurement of Mode in three series of data- individual, Discrete and continuous series of data	1 hour
34	Merits and Demerits of Mode	1 hour
35	Relationship between Mean, Median and Mode	1 hour
36	Properties of Good average	1 hour

37	Measures of Dispersions-Range, Quartile deviation, Mean deviation and Standard deviation	1 hour
38	Range, Coefficient of Range, Merits and Demerits of Range	1 hour
39	Quartile deviation (QD), coefficient of QD, Merits and Demerits of QD	1 hour
40	Mean deviation(MD), coefficient of MD, Merits and Demerits MD	1 hour
41	Measurement of Standard Deviation in three series of data-individual, Discrete and continuous series of data	1 hour
42	Merits and Demerits of Standard Deviation	1 hour
43	Mathematical Properties of Standard Deviation	1 hour
44	Measurement of Variance	1 hour
45	Measurement of coefficient variation	1 hour
46	Measurement of Gini-coefficient	1 hour
47	Concept of Correlation and Types of correlation	1 hour
48	Karl Pearson's Coefficient of correlation	1 hour
49	Spearman's rank coefficient of correlation	1 hour
50	Simple regression	1 hour
51	Differences Between Correlation and Regression Analysis	1 hour
52	Estimation of regression coefficients by ordinary least square methods	1 hour
53	Standard Error of Regression line	1 hour
54	Introduction to Index Numbers and Definitions of Index Numbers	1 hour
55	Uses of Index numbers	1 hour
56	Methods of Constructing Index Numbers- Weighted and Un-Weighted Indices	1 hour

57	Construction of Laspeyers & Pasches Index Numbers and their limitations	1 hour
58	Construction of Fishers Index Numbers	1 hour
59	Why Fisher Index Numbers are Ideal Index Numbers	1 hour
60	Construction Cost of living Index numbers and its Uses	1 hour

Computer Application in Economics- I, Paper-IV

Sl.no.	Name of the Topic	Number of Hours
1	Introduction of computers	1 hour
2	Definition of Computer and its explanation	1 hour
3	History of Computer development	1 hour
4	Evolution of Computers	1 hour
5	Generation of Computers	1 hour
6	First generation of computers and its characters	1 hour
7	Second Generation computers and its characters	1 hour
8	Third Generation computers and its characters	1 hour
9	Fourth Generation Computers and its characters	1 hour
10	Microcomputers and its features	1 hour
11	Computer Lab	1 hour
12	Personnel Computers and its features	1 hour
13	Structure of Computer	1 hour
14	Computer lab	1 hour
15	Uses of Computers in different fields	1 hour
16	Computers usages in Banks	1 hour
17	Computers usages in post-offices	1 hour
18	Computers usages in Railways	1 hour
19	Computers usages in Income Tax Departments	1 hour
20	Computer lab	1 hour
21	Basic components of computer	1 hour

22	Central Processing Unit (CPU) and its functions	1 hour
23	Key Board and its functions	1 hour
24	Image scanner and Microphone and their functions	1 hour
25	Mouse and pointing device and their functions	1 hour
26	Joystick, Lighting pen and optical and their functions	1 hour
27	Track ball, Touch pad, Touch Screen and their functions	1 hour
28	Computer output devices	1 hour
29	Printer and it features and functioning	1 hour
30	Different types of printers	1 hour
31	Monitor- features and functions and types of monitors	1 hour
32	Storage devices- Hard Disk features and functions	1 hour
33	Floppy disk Drive, Compact disk (CD) feature and functions	1 hour
34	Digital Video Disk (DVD) features and functions	1 hour
35	Computer lab	1 hour
36	Computer lab	1 hour
37	Operating system	1 hour
38	Micro soft Disk Operating System (MS DOS)	1 hour
39	Internal Commands and its usage	1 hour
40	External Commands Usage	1 hour
41	Computer lab	1 hour
42	Computer lab	1 hour
43	Window operating System	1 hour
44	Salient features of windows	1 hour
45	Merits of Window Operating System	1 hour

46	Window Operating System- accessories	1 hour
47	System tools functions	1 hour
48	Scan disk functions	1 hour
49	Word pad & Note pad functions	1 hour
50	Paint and Imaginations	1 hour
51	Computer lab	1 hour
52	About My computer	1 hour
53	Internet Explorer- network, neighborhood	1 hour
54	Word opening, creating a file and saving it	1 hour
55	Editing and formatting text	1 hour
56	Computer lab	1 hour
57	Spell and Grammar Auto check	1 hour
58	Excel Sheet opening entering data	1 hour
59	Creating worksheets	1 hour
60	Work book opening and formatting	1 hour

FINANCIAL ECONOMICS-I, Paper-V

Lecture Numbers	Content of subject for teaching
	Module-I
Lecture-1	The Financial System and its significance for Economic Development
Lecture-2	Functions of Financial System - Financial Concepts – Financial Assets
Lecture-3	Financial Intermediaries – Financial Markets and Classification of Financial Markets
Lecture-4	Capital Market – Industrial Securities Market – Government Securities Market
Lecture-5	Capital Market – Long Term Loans Market – Mortgage Market – Financial Guarantees Market
Lecture-6	Money Market – Call money Market – Treasury Bills Market – Short Term Loan Market
Lecture-7	Foreign Exchange Market – Financial Rates of Returns – Financial Instruments
Lecture-8	All India development financial institutions: Industrial Finance Corporation of India
Lecture-9	All India development financial institutions: Industrial Credit and Corporation of India- – Objectives- Management & Organization – Functions etc.
Lecture-10	All India development financial institutions: Industrial Bank of India – Objectives - Management & Organization – Functions - Financing
Lecture-11	All India development financial institutions: Small Industrial Development Bank of India – Objectives - – Management & Organization – Functions – Financing.
Lecture-12	State development financial institutions: state Financial Corporation - Objectives - Management & Organization – Functions – Financing
Lecture-13	Industrial Investment Bank of India: Objectives - – Management & Organization – Functions – Financing
Lecture-14	Investment Institutions: Unit Trust of India – Objectives - – Management & Organization – Functions – Financing
Lecture-15	Investment Institutions: Life Insurance Corporation of India Objectives - – Management & Organization – Functions – Financing

Lecture-16	Investment Institutions: General Insurance Corporation of India - Objectives - – Management & Organization – Functions – Financing
Lecture-17	Investment Institutions: Export Import Bank of India – Objectives Functions etc
Lecture-18	Investment Institutions: National Bank for Agriculture and Rural Development
Lecture-19	Commercial Banking: Definition – Banking Regulation Act of India – Importance of Banking in Economy
Lecture-20	Commercial Banking: Types of Banks – Functions of Commercial Banks
Lecture-21	Commercial Banking: Banking Developments 1949-69 – Nationalization of Banks
Lecture-22	Commercial Banking: Banking structure in India – Expansion of Banking in India
Lecture-23	Banking structure in India: Bank lending – Deposit Mobilization
Lecture-24	Banking structure in India: Evaluation of Banking Since Nationalization
Lecture-25	Banking structure in India : Banking Sector Reforms (Narasimha Committee recommendation)
Lecture-26	Indian Banking: Challenges for Future – Payments Banks and Small Financial Banks
Lecture-27	Financial Sector Reforms: Money market Reforms
Lecture-28	Financial Sector Reforms: Capital Market Reforms
Lecture-29	The Structure and functions of the Financial System in India – Development of Financial System in India
Lecture-30	Money Market- Definition – Structure – Organized – Unorganized- Submarkets
Lecture-31	Money Market: Money Market Vs Capital Market

Lecture-32	Indian Financial Markets: Money Market – Features – Objectives – Features of a Developed Money Market
Lecture-33	Indian Financial Markets: Composition of Money Market – Call Money Market – Operations of Call Money Market.
Lecture-34	Call money Market: Transactions and Participants – Advantages – Drawbacks.
Lecture-35	Call money Market: Commercial Bills Market – Definition – Types of Bills – Operations in Bill Market
Lecture-36	Commercial Bill Market: Discount Market – Acceptance Market – Importance - Drawbacks
Lecture-37	Treasury Bills Market: Types of Treasury Bills – Operations and participants - Importance and Defects
Lecture-38	Money Market Instruments – Commercial Paper – Certificate of Deposit – Interbank participation Certificate
Lecture-39	Repo Instrument – Structure of Indian Money Market – Features of Indian Money Market – Recent Developments.
Lecture-40	Money Market - Money market mutual funds and their instruments.
Lecture-41	Capital Market: Definition – Structure – Organized – Unorganized- Submarkets
Lecture-42	Capital Market: Primary Market or New Issue Market – Meaning – Distinction between New Issue Market and Stock Exchange
Lecture-43	New Issue Market: Relationship between New Issue Market and Stock Exchange
Lecture-44	New Issue Market: Functions of New Issue Market – General Guidelines for New Issue Market
Lecture-45	New Issue Market: Principal Steps of a Public Issue – Private Placement – Offer for Sale
Lecture-46	New Issue Market: SEBI guideline for IPO – Instruments of Issue – Indian Depository Receipt
Lecture-47	New Issue Market: Players in the New Issue Market – Recent rends – ASBA Route

Lecture-48	New Issue Market: Finch Auction – Advantages of Primary Market – Suggestions.
Lecture-49	Secondary Market: Functions and Services of Stock Exchanges
Lecture-50	Secondary Market: Organization of Stock Exchange of India
Lecture-51	Secondary Market: Traditional Structure of Stock Exchange – Listing of Securities – Group- A, B, C shares
Lecture-52	Secondary Market: Advantages of listing – Drawbacks
Lecture-53	Secondary Market: Listing procedure- Criteria for listing –Obligations – New listing obligations
Lecture-54	Secondary Market: Registration of Stock Brokers – Functions of Brokers – Kinds of Brokers and their assistants
Lecture-55	Secondary Market: Methods of Trading in a Sock Exchange – Online Trading – advantages
Lecture-56	Secondary Market: NSE-NEAT System – Carry over or Bald Transactions.
Lecture-57	Secondary Market: Genuine Trading Vs Speculative Trading – Kinds of Speculators
Lecture-58	Secondary Market: Speculative Transactions – Stock Indices – Defectives of Indian Capital Market – Recent Developments

Department of Economics
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Syllabus Blow up
SEMESTER- II

Microeconomics- II, Paper-I

Lecture Numbers	Content of subject for teaching
Lecture-1	Alternative Theories of the Firm: Baumol's Sales Maximization Model – Assumptions – Model - Graph
Lecture-2	Alternative Theories of the Firm: Williamson, Managers utility function – graph - criticism
Lecture-3	Alternative Theories of the Firm: Marries models – Assumptions – Model – Graph - criticisms
Lecture-4	Alternative Theories of the Firm: Bain's Limit pricing – Assumptions – Model – Graph - criticisms
Lecture-5	Alternative Theories of the Firm: Sylos- Labini – Assumptions – Model – Graph - criticisms
Lecture-6	Alternative Theories of the Firm: Modigliani's model – Assumptions – Model – Graph - criticisms
Lecture-7	Theory of Distribution – The Neo-classical Marginal Productivity Theory – Critical Evaluatio0n of theory
Lecture-8	Theory of Distribution: The modern theory of Distribution – Product Exhaustion Theory
Lecture-9	Theory of Distribution: Euler's Product Exhaustion Theory
Lecture-10	Theory of Distribution: The Clark Wicksted – Walras Product Exhaustion Theory
Lecture-11	Theory of Rent: Concept of Economic Rent – Ricardian Theory of Rent – Differential Rent- Rent in the case of Extension Cultivation
Lecture-12	Ricardian Theory of Rent – Rent in the Case of Intensive cultivation – Criticism of Theory

Lecture-13	Theory of Rent: Modern theory of Rent - Modifications made by Modern theory
Lecture-14	Theory of Rent: Rent and Price – Quasi Rent – Scarcity Rent – Rent as generalized surplus return
Lecture-15	Theory of Rent: Taxation of land and Rent Control
Lecture-16	Theory of Interest: Meaning – Gross and Net Interest – Interest rate differentials
Lecture-17	Theory of Interest: Fisher's theory of Interest - Classical or Real Theory of Interest
Lecture-18	Theory of Interest: Neo Classical or Loanable Funds theory - Criticism
Lecture-19	Theory of Interest: Keynesian or Liquidity preference theory of Interest - Criticism
Lecture-20	Theory of Interest: Modern Theory or IS and LM Rate of Interest Theory - Criticism
Lecture-21	Theory of Profit: Meaning of Profit – Gross and Net profit – Risk theory of Profit
Lecture-22	Theory of Profit: Uncertainty Theory of profit - Criticism
Lecture-23	Theory of Profit: Dynamic Theory of Profit and Monopoly theory of Profit
Lecture-24	Theory of Wages: Nominal and Real Wages – Factors affecting Real wages – Non-homogeneous Labor and wages
Lecture-25	Theory of Wages: Determination of Wages in Competitive market
Lecture-26	Theory of Wages: Modern Theory – monopsony in Labor market – Imperfect Labor market
Lecture-27	Theory of Wages: Union and wages – Collective Bargaining – minimum Wages
Lecture-28	Effects of minimum Wages in competitive markets Share of wages in National Income

Lecture-**29**	Equilibrium Analysis: General Equilibrium Theory – Introduction – Problem of Existence
Lecture-30	Equilibrium Analysis: Stability and Uniqueness of General Equilibrium
Lecture-31	Equilibrium Analysis: The Walrasian General Equilibrium Model
Lecture-32	Equilibrium Analysis: 2x2x2 Graphical General Equilibrium
Lecture-33	Equilibrium Analysis: General equilibrium and contribution of Hicks and Leontief
Lecture-34	Equilibrium Analysis: Equilibrium of production or allocation of Resources
Lecture-35	Equilibrium Analysis: Equilibrium of Consumption or the efficient distribution of commodities
Lecture-**36**	Welfare Economics: Paretian Welfare Economics – meaning of welfare Economics – pareto optimality criterion
Lecture-37	Welfare Economics: Marginal conditions and second order conditions – Total conditions
Lecture-38	Welfare Economics: Optimum allocation of commodities – Optimum allocation of Factors
Lecture-39	Welfare Economics: Optimum composition of Output- Optimum degree of Specialization
Lecture-40	Welfare Economics: Optimum Factor Utilization – Optimum allocation of Factors time
Lecture-41	Welfare Economics: Intertemporal Optimum allocation of Money assets
Lecture-42	Welfare Economics: Perfect competition and pareto optimality
Lecture-43	Welfare Economics: Evaluation of Paretian Welfare Economics
Lecture-44	New Welfare Economics: The compensation criteria – The Kaldor – Hicks Criterion

Lecture-45	New Welfare Economics: The Social welfare function – Arr45ow's Impossibility theorem
Lecture-46	New Welfare Economics: Political aspects of Welfare Economics
Lecture-**47**	Economics of Risk and Uncertainty: Consumer's Choice involving Risk
Lecture-48	Economics of Risk and Uncertainty: Measurement of Risk- Preference Towards Risk
Lecture-49	Economics of Risk and Uncertainty: Measure for reduction of risk – Risk taking – risk averse and risk Neutral
Lecture-50	Economics of Risk and Uncertainty: Gambling and Insurance – Risk pooling – Risk Spreading
Lecture-51	Economics of Risk and Uncertainty: Risk sharing – Problems with Insurance – Moral hazard – Adverse Selection
Lecture-52	Economics of Risk and Uncertainty: Risk and Asset portfolio – Optimum asset portfolio
Lecture-53	Economics of Risk and Uncertainty: Portfolio diversification and Risk Reduction
Lecture-54	Economics of Risk and Uncertainty: Market and Specific Risk

Subject: Macroeconomics, Sem-II, Paper- II

Lecture	Topic name	No of hours
Unit-I	**Post- Keynesians theories of demand for money**	1 hour
1	Introduction of classical theories of demand for money	1 hour
2	Introduction of Keynes theory of demand for money	1 hour
3	Post Keynesians approaches of demand for money Patinkin approach	1 hour
4	Baumol approach of demand for money introduction & assumptions	1 hour
5	Friedman's Quantity theory of money- A restatement- theory	1 hour
6	Tobin approach of demand for money introduction and assumptions	1 hour
7	Tobin approach of demand for money- theoretical explanation	1 hour
8	Criticism on Baumol and Tobin approaches of demand for money	1 hour
9	Analyzing the crisis in Keynesian economics and revival of monetarism	1 hour
10	Friedman's Quantity theory of money- A restatement- Intro & assumptions	1 hour
11	Friedman's Quantity theory of money theory explanation	1 hour
12	Criticism on Friedman's theory	1 hour

Unit-II	Neo- classical and Keynesian synthesis	1 hour
13	Interest meaning and its importance in economics	1 hour
14	Classical theory of interest	1 hour
15	Neo- classical theory of interest	1 hour
16	Introduction of the equilibrium in goods and financial markets	1 hour
17	IS-IM Model Introduction and assumptions	1 hour
18	Derivation of IS Curve (Graphically and algebraically)	1 hour
19	Derivation of LM Curve (Graphically and algebraically)	1 hour
20	Analysis of equilibrium in IS-LM model	1 hour
21	Extension of IS-LM to govt sector (IS-LM with and without Taxes and Expenditure)	1 hour
22	Monetary policy in IS-LM disequilibrium correction	1 hour
23	Fiscal policy in IS-LM disequilibrium correction	1 hour
24	Policy mix in IS-LM disequilibrium correction	1 hour
25	IS-LM in open economy	1 hour
26	IS-LM Mundell & Fleming Model introduction and assumptions	1 hour
27	Perfect capital mobility in fixed and flexible exchange rates (under EMP)	1 hour
28	Perfect capital mobility in fixed and flexible exchange rates (under EFP)	1 hour

29	Imperfect capital mobility in fixed and flexible exchange rates (under EMP)	1 hour
30	Imperfect capital mobility in fixed and flexible exchange rates (under EFP)	1 hour
31	Monetary approach of balance of payments	1 hour
32	Analyzing the capital flows under fixed exchange rate system	1 hour
33	Analyzing the capital flows under flexible exchange rate system	1 hour
34	Criticism on IS-LM model	1 hour
Unit-III	**Theory of inflation**	1 hour
35	Meaning of inflation its causes and effects	1 hour
36	Classical theory of inflation	1 hour
37	Keynesian theory of inflation	1 hour
38	Inflationary gap	1 hour
39	Monetarist approach of inflation	1 hour
40	Structuralist theory of inflation	1 hour
41	Philips curve analysis- short run Philips curve	1 hour
42	Long run Philips curve	1 hour
43	The natural rate of unemployment hypothesis	1 hour
44	Tobin's modified Philips curve	1 hour
45	Inflation controlling policies- Fiscal policy	1 hour

46	Monetary policy to control the inflation	1 hour
Unit-IV	**Business cycles**	1 hour
47	Meaning of business cycles its features	1 hour
48	Different phases of business cycles	1 hour
49	Effects of business cycles	1 hour
50	Schumpeter innovations theory of business cycle	1 hour
51	Hicks interaction of multiplier and acceleration theory of inflation	1 hour
52	Controlling methods of business cycles fiscal and monetary policies	1 hour
53	Relative efficiency of monetary and fiscal policies in BC control	1 hour
54	Monetary policy and its objectives with special reference to India	1 hour
Unit-V	**New classical macroeconomics**	1 hour
55	Introduction of new classical economics its features	1 hour
56	Policy implications of new classical macroeconomics	1 hour
57	Rational expectations theory	1 hour
58	Role of expectations in macroeconomics	1 hour
59	Adoptive expectations theory	1 hour
60	SupplySide economics and its assumptions	1 hour
61	Evaluation of supply side economics theories	1 hour
62	Macro stabilization policies and financial sector reforms in India	1 hour

Quantitative Methods-II, Paper-III

Sl.no.	Name of the Topic	Number of Hours
1	Concept of Matrix and types of Matrix	1 hour
2	Identity Matrix, Scalar Matrix, Adjoin Matrix	1 hour
3	Determinant and their basic properties	1 hour
4	Addition and subtraction of matrix	1 hour
5	Conditions for Multiplication of Matrix	1 hour
6	Writing Inverse Matrix and its properties	1 hour
7	Solution of simultaneous equations through Cramer's rule Matrices	1 hour
8	Rank of matrix	1 hour
9	Concept of Vector and its properties	1 hour
10	Introduction to input and output analysis	1 hour
11	Uses of Input and Output analysis	1 hour
12	Constrained optimization- solving the problem with an example	1 hour
13	Lagrangian function- solving the problem with an example	1 hour
14	Maximization of Utility- solving the problem with an example	1 hour
15	Maximization of profits- solving the problem with an example	1 hour
16	Minimization of costs- solving the problem with an example	1 hour
17	Maximization of revenue- solving the problem with an example	1 hour
18	Introduction to linear programming	1 hour
19	Formulation of linear programming problems- solving the problem with an example	1 hour
20	Linear programming structure and its variables	1 hour

21	Nature of feasibility of linear programming	1 hour
22	Basic solution to Linear programming	1 hour
23	Optimal Solution to Linear Programming	1 hour
24	Solution of linear programming through graphic method	1 hour
25	Concept of Duality	1 hour
26	Basic concept of sampling	1 hour
27	Non-random sampling- Judgment, Quota and Convenience sampling	1 hour
28	Random sampling- Simple Random sampling or unrestricted random sampling	1 hour
29	Stratified Random sampling, systematic Random sampling, Multi-stage Random sampling	1 hour
30	PPS (probability proportion to size) sampling	1 hour
31	Concept of an estimator and its sampling distribution	1 hour
32	Desirable properties of a good estimator	1 hour
33	Formulation of Statistical Hypothesis	1 hour
34	Formulation Null and Alternative Hypothesis	1 hour
35	Testing for Mean of a population from large sample	1 hour
36	Testing for difference between means of two populations from large sample	1 hour
37	Concept of probability and its definition	1 hour
38	Classical definition of probability	1 hour
39	Importance of concept of probability	1 hour
40	Calculation of probability	1 hour
41	Laws of addition of probability	1 hour
42	Working out the problem of addition of probability	1 hour

43	Laws of multiplication of probability	1 hour
44	Working out the problem of multiplication of probability	1 hour
45	Concept of Discrete Random variable	1 hour
46	Discrete Random Variable Mean	1 hour
47	Discrete Random Variable Variance	1 hour
48	Concept of Normal distribution	1 hour
49	Properties of Normal Distribution	1 hour
50	Fitting a Normal Curve	1 hour
51	Concept of Time Series Data	1 hour
52	Time Series Data Analysis	1 hour
53	Components of time series analysis	1 hour
54	Determination of secular trend by moving average	1 hour
55	Estimation of trend by ordinary Least Square method	1 hour
56	Uses of seasonal Indices	1 hour
57	Estimation of linear growth rate – work out the example problem	1 hour
58	Estimation of Compound growth rate- work out the example problem	1 hour
59	Compound growth rate estimation using Ordinary Least Square method	1 hour
60	Difference between linear growth rate and compound growth rate	1 hour

Computer Applications in Economics- II, Paper-IV

Sl.no.	Name of the Topic	Number of Hours
1	Concept of Data explanation with example	1 hour
2	Recording of Data and filing	1 hour
3	Data file types- Work file, Master file	1 hour
4	Audit file, Transaction file	1 hour
5	Back up file or security file, History file	1 hour
6	File handling- opening a file	1 hour
7	Appending file and cascading file	1 hour
8	Closing file and attribute control	1 hour
9	Data storage and devices	1 hour
10	CD, DVD and Hard disk, its features and way of storage	1 hour
11	Pen Drive and External Disk, its features and way of storage	1 hour
12	Data retrieval and its techniques	1 hour
13	Formatting of Text	1 hour
14	Generation of Tables	1 hour
15	Generation of Graphs and their types	1 hour
16	Estimation of descriptive statistics	1 hour
17	Construction of Index Numbers	1 hour
18	Estimation of growth rates	1 hour
19	Writing a Demand function	1 hour
20	Writing a supply function	1 hour
21	Writing a production function	1 hour

22	Writing a Consumption function	1 hour
23	Writing a Employment function	1 hour
24	Writing a Demand for money function	1 hour
25	Writing a supply of Money function	1 hour
26	Writing Leontief input-output Model	1 hour
27	Opening MS access	1 hour
28	Working with data in MS access	1 hour
29	Generation of tables in access	1 hour
30	Forms generation of tables	1 hour
31	Generation of query reports	1 hour
32	Opening of Power point	1 hour
33	Concept of presentation	1 hour
34	Preparation of a power point presentation	1 hour
35	Addition of slides	1 hour
36	Creation of Animation to the slides	1 hour
37	Preparation of slide shows	1 hour
38	Viewers presentation	1 hour
39	Basics of Data analysis	1 hour
40	Data entry in SPSS	1 hour
41	Computing with SPSS	1 hour
42	Preparation of graphs with SPSS	1 hour
43	Distribution functions	1 hour
44	Density functions	1 hour
45	Statistical Package handling	1 hour

46	Command description for SPSS	1 hour
47	Generation of reports in SPSS	1 hour
48	Generation of descriptive statistics- mean, standard deviation in SPSS	1 hour
49	Comparing Means and standard deviation	1 hour
50	Time series analysis	1 hour
51	Seasonal trend analysis, Secular trend analysis	1 hour
52	Finding a Correlation between two variables	1 hour
53	Finding a Correlation between more variables	1 hour
54	Writing a Simple Regression Models.	1 hour
55	Writing a multiple Regression Models.	1 hour
56	Computer lab	1 hour
57	Computer lab	1 hour
58	Computer lab	1 hour
59	Computer lab	1 hour
60	Computer lab	1 hour

FINANCIAL ECONOMICS-II, Paper-V

Lecture Numbers	Content of subject for teaching
	Module-I
Lecture-1	Introduction of NSE and Objectives
Lecture-2	Organization and Management, Functions of NSE
Lecture-3	Features of NSE, Clauses of NEAT (National Exchange for Automatic Trading).
Lecture-4	SEBI Introduction, Controller of Capital Issues and Securities Contract Act.
Lecture-5	Reasons for Establishment for SEBI, Purpose and Role of SEBI
Lecture-6	Malpractices of Security Market, Deficiencies in the market
Lecture-7	Security and Exchange Board of India, its Objectives and Functions
Lecture-8	Protective, Development and Regulatory Functions
Lecture-9	Powers of SEBI and Organization and Management
Lecture-10	SEBI guidelines for Primary Market
Lecture-11	SEBI guidelines for Secondary Market
Lecture-12	SEBI guidelines for Public Issues
Lecture-13	SEBI and Foreign Institutional Investors, Bonus Issues
Lecture-14	SEBI guidelines for the Issue of Rights Share
Lecture-15	SEBI Mutual Funds Guidelines
Lecture-16	Guidelines for protection of the Debentures Holders
Lecture-17	SEBI and Prohibition of Unfair Trade Practices
	Module-II
Lecture-18	Concept of Insurance, what is Insurance? Terminology used in Insurance and Definitions
Lecture-19	Significance of Insurance Types of Insurance: Life Insurance and General Insurance etc.

Lecture-20	Nature of Insurance (Sharing of Risks, Co-operative Device, Value Risk, Payment, Claim, etc.)
Lecture-21	Functions of Insurance (Primary and Secondary) Details of Primary Functions
Lecture-22	Secondary functions (Prevention of losses, funds for Investment, Encouragement of savings, etc.,)
Lecture-23	Principles of Insurance: Utmost good faith, Insurable Interest, Indemnity, Contribution)
Lecture-24	Principles of Insurance: Subrogation, Causa Proxima, Mitigation of loss
Lecture-25	Role and Importance of Insurance (Benefits to Individuals, Business or Industry, Society)
Lecture-26	Types of Insurance; From risk point of View and Business point of view, Life, General, Social Insurance
Lecture-27	Polices of Life Insurance: Term Assurance, Whole Life, Endowment Policy, Family Policy, Pension Plan
Lecture-28	Polices of Life Insurance: Life Annuity Joint Life Assurance, Unit Linked Plans, Health Insurance, and Maintenance of handicapped dependent Policy Plan.
Lecture-29	General Insurance: Types (Medi-claim, Health, Group, Automobile, Workers Compensation insurances
Lecture-30	General Insurance: Aviation, Business, Fire, Travel Insurance Policy and Social Insurance.
Lecture-31	Risk Point of View: Property, Liability, Other forms of Insurance
Lecture-32	Fire Insurance: Consequential Loss Policy, Comprehensive Policy, Valued, Valuable, Floating, Average Policy.
Lecture-33	Marine insurance: Voyage Policy, Time Policy, Hull Policy, Cargo Policy, Freight Policy and Valued Policy
Lecture-34	Life Insurance of India: History, Nationalization of LIC, Growth of LIC
Lecture-35	Insurance Sector Reforms: Structure, Competition, Regulatory Body, Investments, Customer Service
Lecture-36	Insurance companies in India: Life insurance in Public sector and Private sector (23 Private Insurance companies)

Lecture-37	Organizational Structure of LIC, Grievance Redressal Machinery and Claim Review Committee.
Lecture-38	Growth of Indian Life Insurance Industry in Post LPG Era
Lecture-39	Role of Private Insurance in India
Lecture-40	Information Technology In LIC: Front End Operations, Metro Area Network, Wide area Network, Interactive Voice System, LIC on Internet.
Lecture-41	Globalization its Impact on LIC and Challenges Before LIC
	Module-III
Lecture-42	Mutual Funds: Meaning – Scope of MF- Definition and Fund Vs. Share
Lecture-43	Mutual Funds: Origin of the Fund – Types/ Classification of Funds
Lecture-44	Mutual Funds: Importance of Mutual Funds – Risks – Organization of Fund
Lecture-45	Mutual Funds: Operation of the Funds – Facilities available to investors – Net Asset Value
Lecture-46	Mutual Funds: Performance of Mutual Funds- Investors Rights
Lecture-47	Mutual Funds: General Guidelines - Mutual Funds 2000 - Violation of Guidelines, Selection of Fund
Lecture-48	Mutual Funds: Commercial Banks and Mutual Funds – Mutual Funds Abroad
Lecture-49	Mutual Funds: Mutual Funds in India –Reasons for slow growth
Lecture-50	Mutual Funds: Futures of Mutual Funds Industry and SEBI Guidelines
	Module-IV
Lecture-51	Money Market: Indian Money Market: Unorganized Sector and Organized Sectors
Lecture-52	Money Market: Characteristics of Indian Money Market
Lecture-53	Reforms measures to strengthen the Indian Money Market
Lecture-54	Capital Market: Structure of Indian Money Market, Primary Market, Secondary Market
Lecture-55	Capital Market: Role of Capital Market in India's Industrial Growth

Lecture-56	Capital Market: Growth of Capital Market in India
Lecture-57	Capital Market: Factors contributing to growth of Capital Market in India
Lecture-58	Capital Market: Challenges of Indian Capital Market in Pre-reforms Phase
Lecture-59	Capital Market: Challenges of Indian Capital Market in Post-Reforms Phase
Lecture-60	Comparative performance of Capital Market in India.
Lecture-61	Challenges for future of Financial Structure development in India.
Lecture-62	Overall Review of Syllabus, Model Questions etc.

Department of Economics
UCA&SS, MG University
Syllabus Blow up
SEMESTER- III

Subject: Econometrics-I, Sem-III, Paper-I

Lecture	Topic name	Remarks
Unit-I	**Introduction of Econometrics**	1 hour
1	Meaning, definitions and nature of Econometrics	1 hour
2	Introduction and nature of Econometrics	1 hour
3	Scope of Econometrics	1 hour
4	Methodology of Econometrics	1 hour
5	Meaning of data, types, sources and its features	1 hour
6	Collection of data (Primary and Secondary)	1 hour
7	Properties of an econometric model	1 hour
8	Reasons for inclusion of random variable	1 hour
9	Assumptions of random variable (Stochastic and other assumptions)	1 hour
10	Principle of ordinary least squares	1 hour
11	Regression model	1 hour
12	Estimation of regression model	1 hour
13	Properties of OLS (BLUE) or GMT	1 hour

14	Numerical example of estimation of simple regression	1 hour
Unit-II	**Regression analysis**	1 hour
15	Introduction of multiple regression model	1 hour
16	Matrix approach of regression model	1 hour
17	Estimation of parameters in multiple regression model	1 hour
18	Testing of coefficients in MRF	1 hour
19	Standard error test (Size of parameter), Z Test (Level of confidence)	1 hour
20	T test (Degrees of comparison)	1 hour
21	Estimation of elasticities in MRF	1 hour
22	Relationship between simple and multiple regression	1 hour
23	Concept of partial correlation and its estimation	1 hour
24	Coefficient of determination (Graphical and algebra method)	1 hour
25	Adjusted coefficient of determination	1 hour
Unit-III	**Problems in Regression analysis- I**	1 hour
26	Relaxing the assumptions of Classical Linear Regression Model	1 hour
27	Meaning of autocorrelation and its types	1 hour
28	Causes of autocorrelation	1 hour
29	Consequences of autocorrelation	1 hour
30	Detection methods of auto correlation (Graphical Method)	1 hour

31	Coefficient of autocorrelation	1 hour
32	Durbin Watson Statistic	1 hour
33	Remedial measures of autocorrelation	1 hour
34	Meaning and introduction of multicollinearity	1 hour
35	Causes and consequences of multicollinearity	1 hour
36	Detection methods of multicollinearity (Correlation and Bunch map analysis)	1 hour
37	Remedial measures of multicollinearity	1 hour
Unit-IV	**Problems in Regression analysis- II**	1 hour
38	Assumption of OLS- Homoscedasticity	1 hour
39	Homoscedasticity assumption violation and presence of heteroscedasticity	1 hour
40	Meaning and nature of heteroscedasticity	1 hour
41	Causes of heteroscedasticity	1 hour
42	Consequences of heteroscedasticity	1 hour
43	Detection methods of heteroscedasticity (Graphical Method)	1 hour
44	Tests of heteroscedasticity (Goldfield Quandt Test)	1 hour
45	Park Test of heteroscedasticity	1 hour
46	Glejser test of heteroscedasticity	1 hour

47	Introduction of Generalized Least Squares and Weighted Least Squares	1 hour
48	Meaning and introduction of errors in variable	1 hour
49	Reasons for errors in variable and its consequences	1 hour
50	Detection of the problem of errors in variable	1 hour
51	Instrumental variable method	1 hour
Unit-V	**Regression with qualitative independent variables**	1 hour
51	Introduction of qualitative variables (Meaning and features)	1 hour
52	Definition of dummy variables its features	1 hour
53	Regression model with dummy variables	1 hour
54	Nature of dummy variable	1 hour
55	Uses of dummy variable	1 hour
56	Uses of dummy variables	1 hour
57	Dummy dependent model	1 hour
58	Estimation of qualitative models	1 hour
59	Logit model, concept and estimation	1 hour
60	Probit model, concept and estimation	1 hour

International Economics- Paper-II

Lecture Numbers	Content of subject for teaching
Lecture-1	Introduction to International Economics – Scope – Inter regional and International Trade
Lecture-2	Tools of International Trade: Production Possibility Curve – Community Indifference Curve
Lecture-3	Tools of International Trade: The offer Curve – Box Diagram – Trade equilibrium
Lecture-4	Theory of International Trade – Features – Importance
Lecture-5	Theory of Absolute Cost Advantage – Assumptions – Table – Graph - Criticism
Lecture-6	David Ricardo's Theory of Comparative Cost Advantage – Assumptions – Model - Criticism
Lecture-7	Comparative Costs theory in terms of Money Taussig's Contribution
Lecture-8	Comparative Costs Theory applied to more than Two Goods – More than Two Countries
Lecture-9	Heckscher – Ohlin Theory of international trade Factor Endowments (Physical and Price Criterion)
Lecture-10	Superiority of H-O Theory over Classical Theory and Criticism on H-O theory
Lecture-11	Leontief Paradox and its Criticism
Lecture-12	Factor Price Equilibrium Theory – Hicks Analysis and Lerner's analysis
Lecture-13	Kinde Berger's Analysis of Factor Price equalization – Stapler Samuelson Theorem
Lecture-14	The Yesinia Theorem – Assumptions – Model – Criticism
Lecture-15	Concept of Policy implications of Immersing Growth
Lecture-16	Measurement of Gains from Trade – Adam Smith's approach – Ricardo- Malthus Approach

Lecture-17	J. S. Mill Approach- Taussig Approach – Modern approach
Lecture-18	Determining the gains from Trade – Gains from Trade for a Large and Small Country
Lecture-19	Potential Gain – Actual gain from Trade – Free Trade Vs No Trade
Lecture-20	Restricted Trae Vs No trade and Static Gains and Dynamic Gains
Lecture-21	Meaning and Types of? Tariffs – Effects of Tariff Under Partial Equilibrium
Lecture-22	Tariffs: – Effects of Tariff Under General Equilibrium in view of Small and Large Country
Lecture-23	The Theory of Optimum Tariffs – Optimum Tariff with retaliations – Optimum Tariff Formula
Lecture-24	Tariff and income distribution – Real rewards to factors of production – short term and medium-term effects
Lecture-25	Import Quotas – Types of Quotas – effects of import under partial equilibrium Quotas
Lecture-26	The Import Quotas - effects of import under General Equilibrium Quotas
Lecture-27	The equilibrium of Tariffs and Quotas – Import Quota Vs Import tariffs
Lecture-**28**	Balance of Payments – Meaning Structure of Balance of payments Accounts (Current & Capital)
Lecture-29	Balance of Payments: The Account of Surplus or Deficit- Balance of Trade and Payments
Lecture-30	Is Balance of Payments always in Balance? - Equilibrium or Disequilibrium of BOP
Lecture-31	Causes for BOP Disequilibrium – Adjustment Mechanism Through Exchange Rates
Lecture-32	Balance of Payments adjustments through Capital Movements

Lecture-33	BOP adjustment police through Expenditure polices – Expenditure Reduction Polices
Lecture-34	BOP adjustment police through Expenditure polices – Expenditure switching Policies
Lecture-35	BOP adjustment police through Expenditure polices -Monetary approach to Balance of Payments
Lecture-36	Foreign Trade Multiplier – Meaning Formula – Foreign Trade Repercussion Effect
Lecture-37	Foreign Trade Multiplier – Repercussion Effects of increase in Investment – Increasing in Exports
Lecture-38	Foreign Trade Multiplier – Deficiencies in Foreign Trade Multiplier
Lecture-**39**	Meaning of Economic Integration – Benefits of economi9c Integration – Forms of Economic Integration
Lecture-40	Economic Integration: Problems involved in the Formation of Customs Union – Customs Union Features
Lecture-41	The Theory of Customs Union: Partial Equilibrium Analysis of Customs Union-Trade creation, Trade diversion – Factors affecting Net Welfare
Lecture-42	The Theory of Customs Union: General Equilibrium Analysis of Customs Union - Trade creation, Trade diversion – Factors affecting Net Welfare
Lecture-43	Customs Union: The Lipsey Model of Customs Union
Lecture-44	Customs Union: The Vanek Model of Customs Union – Dynamic Effects of Customs Union
Lecture-45	Customs Union: Theory of Customs Union as the Theory of Second best – Intra industry Trade and Customs Union
Lecture-46	SAARC – Objectives – Principles – Organization – SAPTA – Features of SAPTA
Lecture-47	Appraisal of SAARC – Achievements of SAARC – Problems faced by SAARC and SAFTA
Lecture-48	Association of South East Asian Nations (ASEAN)- Objectives – Principles – Organization

Lecture-49	European Economic Community (EEC) - Objectives – Organization – Achievements of EU
Lecture-50	The Euro, EU and Developing Countries, India and The EU – Critical Appraisal
Lecture-51	Problems and prospects of forming a customs union in the Asian region - Multilateralism
Lecture-**52**	International Institutions: World Trade Organization – Objectives – Functions- Achievements
Lecture-53	International Institutions: World Trade Organization – TRIPS and TRIMS
Lecture-54	International Institutions: International Monetary Fund – Objectives – Functions- Achievements
Lecture-55	International Monetary Fund: The operation of IMF – IMF Assistance – Criticism
Lecture-56	International Institutions: IBRD -– Objectives – Functions- Organization – Capital Resources
Lecture-57	International Institutions: IBRD – Lending Activities of the Bank – IDA objectives – Organization – IDA assistance
Lecture-58	International Institutions: IBRD – International Finance Corporation –Objectives – Organization – Lending operations etc.
Lecture-59	International Institutions: Asian Development Bank - -– Objectives – Functions- Organization – Capital Resources
Lecture-60	India's Foreign Trade – Composition of Trade – Exports – Imports
Lecture-61	India's Foreign Trade: Foreign Trade and Balance of Payments since 1991
Lecture-62	Trade reforms in India – Impact of Trade reforms and Foreign Trade policies

Subject: Public Economics, Sem-III, Paper- III

Lecture	Topic name	No of hours
Unit-I	**Introduction to Public Economics**	1 hour
1	Introduction of public economics (Meaning, Definitions, Scope and Nature)	1 hour
2	Introduction to types of economies	1 hour
3	Capitalist economy and its features	1 hour
4	Socialist economy and its features	1 hour
5	Mixed economy and its features	1 hour
6	Role of state in economic activities (Classical Neo-classical, and Keynes views)	1 hour
7	Role of state in capitalist and socialist economies	1 hour
8	Role of state in mixed economies	1 hour
9	Introduction of public and private sectors	1 hour
10	Multiple theory of public house hold (Prof. Musgrave approach)	1 hour
11	Meaning of public goods, its features and differences	1 hour
12	Market mechanism in allocation of resources	1 hour
13	State as an agent of planning and development	1 hour
14	Definition of regional imbalances, causes and consequences	1 hour

15	Removing regional imbalances (Govt policies and programmes)	1 hour
Unit-II	**Public choice and policy**	1 hour
16	Meaning of public choice and policy and its importance	1 hour
17	Private mechanism in allocating the resources	1 hour
18	Public mechanism of allocating resources	1 hour
19	Preference revelation and preference aggregation	1 hour
20	Introduction of vote, voting and different voting systems	1 hour
21	Theory of democracy and its importance	1 hour
22	Bureaucracy and its role in public choice	1 hour
23	Rent seeking meaning, description and Tullock paradox	1 hour
24	Direct unproductive profit seeking (Concept and welfare consequences-J Bhagavathi)	1 hour
25	Arrows impossibility provision of public goods	1 hour
26	Meaning of stabilization and Keynes case for stabilization policy	1 hour
27	Role of infrastructure in stabilization	1 hour
Unit-III	**Taxation**	1 hour
28	Meaning of tax and features of a good tax	1 hour
29	Types of taxes (Based on tax rate and base, position and burden)	1 hour
30	Value added tax (Meaning, history, overview, implementation and example)	1 hour

31	Advantages and limitations of VAT	1 hour
32	GST (Meaning, history, overview, implementation and example)	1 hour
33	Advantages and limitations of GST	1 hour
34	Introduction of the concepts impact and incidence and its features	1 hour
35	Impact, incidence and shifting of taxation and its effects	1 hour
36	Benefit approach of taxation its merits and demerits	1 hour
37	Ability to pay approach of taxation- subjective approach	1 hour
38	Ability to pay approach of taxation objective approach	1 hour
39	Concepts of horizontal and vertical equity in taxation	1 hour
40	The cost of service theory of taxation	1 hour
41	Elasticity and buoyancy of taxation	1 hour
42	Federal finance meaning and features of the federation	1 hour
43	Principles of federal finance (Federal & other principles as per Pro. Adharker)	1 hour
Unit-IV	**Public Debt**	1 hour
44	Concept and meaning of the public debt, its need and importance	1 hour
45	Differences between public and private debt	1 hour
46	Types of public debt	1 hour

47	Burden of public debt	1 hour
48	Effects of public debt on production, consumption and distribution etc.	1 hour
49	Meaning of public debt management and its principles	1 hour
50	Redemption of public debt and its methods	1 hour
51	Deficit budget and public debt	1 hour
51	Fiscal and monetary policies to stabilize the economy	1 hour
Unit-V	**Public Expenditure**	1 hour
52	Meaning of public expenditure and its objectives	1 hour
53	Differences between public and private expenditure its role in development	1 hour
54	Effects of public expenditure on production, consumption and distribution	1 hour
55	Wagner's law of increasing state activity	1 hour
56	Empirical evidence of Wagner's law	1 hour
57	Peacock and Wiseman law of public expenditure	1 hour
58	Principle of maximum social advantage	1 hour
59	Growth and pattern of public expenditure in India	1 hour
60	Meaning of cost benefit analysis and its objectives	1 hour
61	Different methods and merits and limitations of the cost benefit analysis	1 hour

62	Concept of project evaluation its advantages and objectives	1 hour
63	Different steps and stages involved in project evaluation	1 hour
64	Role of project evaluation in cost benefit analysis	1 hour

Economics of Social Sector- Paper-IV

Sl.no.	Name of the Topic	Number of Hours
1	Introduction of Economics of Social Sector-Why this new subject has emerged?	1 hour
2	Definition of Economics of Education and its salient features	1 hour
3	Importance and scope of Economics of Education	1 hour
4	Education as a consumption good and Investment good	1 hour
5	Concept of Human Capital and components of human capital	1 hour
6	Historical Developments in Human capital theory- Classical to modern Economists	1 hour
7	Human capital v/s Physical Capital	1 hour
8	Human capital and Human Development	1 hour
9	Cost of Education	1 hour
10	Expenditure on Education	1 hour
11	Difference between Costs and Expenditure	1 hour
12	Private costs and social costs of education	1 hour
13	Direct and indirect/opportunity costs of Education	1 hour
14	Concept of Benefits of Education	1 hour
15	Direct and Indirect Benefit of Education	1 hour
16	Private Benefits and Social Benefits of Education	1 hour
17	Problems in measurement of Costs and Benefits of Education	1 hour
18	Cost-Benefit analysis in Education	1 hour
19	Education and Employment	1 hour

20	Education and Income	1 hour
21	Contribution of Education to Economic Growth	1 hour
22	Education and Poverty	1 hour
23	Education and Income Distribution	1 hour
24	Educational Planning and its Importance	1 hour
25	Approaches to educational planning –Technical Model, Political Model and Consensus model	1 hour
26	Educational Planning in Developing Countries	1 hour
27	Education planning in India	1 hour
28	Educational Planning and Problem of Educated Unemployment	1 hour
29	Education and Brain Drain	1 hour
30	Financing of Education	1 hour
31	Need of the Financing of Education	1 hour
32	Sources of Financing of Education	1 hour
33	Financing of Education in India	1 hour
34	Equity and Efficiency Effects of Financing Education in India	1 hour
35	GATS and Education	1 hour
36	Implications of GATS on Indian Education	1 hour
37	GATS and Brain Drain	1 hour
38	GATS and Financing of Education India	1 hour
39	Privatization and Financing of Education in India	1 hour
40	Concept of Economics of Health	1 hour
41	Definition of Economics of Health and salient features	1 hour
42	Importance and Scope of Economics of Health	1 hour

43	Concept of Health Care	1 hour
44	Difference between Health and Health Care	1 hour
45	Health as Consumption Good	1 hour
46	Health as Investment Good	1 hour
47	Role Health in Economic Development of Individual	1 hour
48	Role Health in Economic Development of Nation	1 hour
49	Health as Human Capital	1 hour
50	Determinants of Health	1 hour
51	Health and Poverty	1 hour
52	Health and Malnutrition	1 hour
53	Economic dimensions of Health Care	1 hour
54	Demand for Health care in India	1 hour
55	Supply of Health care in India	1 hour
56	Resource Mobilization and Utilization for Health care in India	1 hour
57	Pricing and subsidies in Health care in India	1 hour
58	Resource constraints for Health care in India	1 hour
59	Inequalities in Health care services in India	1 hour
60	Issues in Health Care Deliver in India	1 hour

Subject: Development Economics-I, Sem-III, Paper- V

Lecture	Topic name	No of hours
Unit-I	**Classical models of growth**	1 hour
1	Introduction of the term development, growth and differences	1 hour
2	Adam smith theory of economic growth introductions and assumptions	1 hour
3	Division of labor its advantages and capital accumulation	1 hour
4	Laisser-faire, natural law, free trade and trade cycles in Adam smith model	1 hour
5	Criticism on Adam smith model	1 hour
6	David Ricardo theory of economic growth introduction and assumptions	1 hour
7	Concept of plough back ratio, capital accumulation and stationary state	1 hour
8	Criticism of the David Ricardo theory	1 hour
9	Thomas Malthas theory (Introduction, assumptions, theory and criticism)	1 hour
10	Karl Marx theory of economic growth (Introduction and assumptions)	1 hour

11	Materialist theory of interpretation, theory of surplus	1 hour
12	Concept of reserve army and organic composition of capital & criticism	1 hour
13	Harrod- Domar Model (Introduction, assumptions)	1 hour
14	Similarities and dissimilarities of H-D Model	1 hour
15	Analysis of G, Gw and Gn and criticism of the H-D Model	1 hour
16	Joan Robinson model of capital accumulation (Introduction and assumptions)	1 hour
17	Golden age model explanation and criticism of the theory	1 hour
18	Kaldor Model (Introduction and assumptions)	1 hour
19	Mathematical interpretation of the model and criticism	1 hour
Unit-II	**Neo-Classical growth models**	1 hour
20	Solow model (Introduction and assumptions of the model)	1 hour
21	Interpretation of the model mathematically and criticism	1 hour
22	Meade model (Introduction and assumptions)	1 hour
23	Interpretation of the Meade model	1 hour
24	Uzawa model (Introduction and assumptions of the model)	1 hour
25	Explanation of the Uzawa model	1 hour
26	Introduction of endogenous growth models	1 hour
27	Romer endogenous growth model assumptions and model	1 hour

28	Robert Lucas Model assumptions and its interpretation	1 hour
Unit-III	**Development models**	1 hour
29	Introduction of Dualistic and development models related to LDCs	1 hour
30	Arthur Lewis model (Introduction and assumptions)	1 hour
31	Explanation of the Lewies model and criticism	1 hour
32	Fei-Ranis dualist model (Introduction and assumptions)	1 hour
33	Introduction of structuralists model	1 hour
34	Rostow's stages of economic growth (Introduction and assumptions)	1 hour
35	Explanation of Rostow's stages of economic growth	1 hour
36	Balanced growth model (Introduction and assumptions)	1 hour
37	Explanation of the balanced growth model and criticism	1 hour
38	Unbalanced growth model (Introduction and assumptions)	1 hour
39	Explanation of the concept DPA and SOC	1 hour
40	Explanation of the model and criticism	1 hour
Unit-IV	**Development strategies**	1 hour
41	Neuman growth model (Introduction and assumptions)	1 hour
42	Interpretation of the Neuman Model	1 hour
43	Explanation of modification of Neuman's model	1 hour
44	Analysis of active and passive variables	1 hour

45	A.K Sen choice of techniques (Introduction and assumptions)	1 hour
46	Labour intensive techniques merits and demerits	1 hour
47	Capital intensive techniques merits and demerits	1 hour
48	Introduction of study growth models	1 hour
49	Mathur's study growth model assumptions and concepts	1 hour
50	Corn strategy or wage goods strategy	1 hour
51	Light goods strategy	1 hour
51	Strategy dam or Heavy goods strategy	1 hour
52	Criticism of C, L, and H Strategies of Goutham Mathur	1 hour

Department of Economics
UCA&SS, MG University
Syllabus Blow up
SEMESTER- IV

Subject: Econometrics-II, Sem-IV, Paper-I

Lecture	Topic name	No of hours
Unit-I	**Simultaneous Equation Models**	1 hour
1	Meaning and introduction of simultaneous equations	1 hour
2	Concept of simultaneous equation bias	1 hour
3	Causes of simultaneous equation bias	1 hour
4	Consequences simultaneous equation bias	1 hour
5	Proving inconsistency of ordinary least squares estimators	1 hour
6	Introduction of methods of simultaneous equation model	1 hour
7	Structural equation method	1 hour
8	Reduced form of the method	1 hour
9	Recursive method	1 hour
10	Definition of the problem of identification	1 hour
11	Different methods of identification (Graphical Method)	1 hour
12	Order condition of identification	1 hour
13	Rank condition of identification	1 hour

14	Indirect least squares method and its assumptions	1 hour
15	Indirect least squares method and its properties	1 hour
16	Two stages least squares method and its assumptions	1 hour
17	Two stage least squares method and its properties	1 hour
Unit-II	**Dynamic Econometric Models**	1 hour
18	Introduction to dynamic econometric models	1 hour
19	Importance of time in analysis of an economic variables	1 hour
20	Introduction of lagged models	1 hour
21	Uses of lagged models	1 hour
22	Reasons for lags (Institutional, technological and psychological)	1 hour
23	Distributed lagged models Concept and properties	1 hour
24	Auto regressive model	1 hour
25	Estimation of distributed lagged models	1 hour
26	Koyack approach of distributed lagged model	1 hour
27	Feature and limitations of the Koyack model	1 hour
28	Nerlove's partial adjustment model	1 hour
29	Cogan's adoptive expectations model	1 hour
Unit-III	**Time Series Analysis- I**	1 hour
30	Meaning and introduction of time series analysis	1 hour

31	Concepts of univariate and multivariate time series analysis	1 hour
32	Introduction of stationarity and non-stationarity	1 hour
33	Differences between stationarity and non-stationarity	1 hour
34	Tests of stationarity	1 hour
35	Dickey Fuller test	1 hour
36	Augmented Dicky Fuller test	1 hour
37	Integration and cointegration	1 hour
38	Spurious regression model	1 hour
39	Random walk model with drift	1 hour
40	Random walk model without drift	1 hour
41	Error correction mechanism	1 hour
42	Causality test	1 hour
43	Ganger and Sims test	1 hour
Unit-IV	**Applied Econometrics- I**	1 hour
44	Introduction of consumption function	1 hour
45	Engle three laws of consumption	1 hour
46	Estimation of Engle three laws of consumption	1 hour
47	Estimation of Engle elasticities (half log)	1 hour
48	Estimation of Engle elasticities (Double function)	1 hour

49	Estimation of Engle elasticities (Nonlinear function)	1 hour
50	Meaning and introduction of demand function and its determinants	1 hour
51	Estimation of elasticities of demand wrt to own price, cross price and income	1 hour
51	Estimation of elasticities of demand wrt to P, Pr, Y (Log linear function)	1 hour
Unit-V	**Applied Econometrics- II**	1 hour
52	Introduction of money demand	1 hour
53	Analyzing the demand for money (Classical, Cambridge and Keynes MDF)	1 hour
54	Estimation of elasticities of demand for money (Income Elasticity of MD)	1 hour
55	Interest elasticity of demand for money	1 hour
56	Log linear function of demand for money	1 hour
57	Introduction of supply response function	1 hour
58	Estimation of short run and long run elasticities of supply response function	1 hour
59	Meaning of production function and its determinants	1 hour
60	Cobb- Douglas Production function and its properties	1 hour
61	C-D Production function and estimation of its elasticities	1 hour
62	CES production function and its estimation of elasticities	1 hour

INDIAN ECONOMY- Paper-II

Lecture Numbers	Content of subject for teaching
	Module-I
Lecture-1	Introduction of syllabus and historical background of Indian economy
Lecture-2	Colonialism meaning, British Rule and Exploitation of India
Lecture-3	The British Rule and India's underdevelopment
Lecture-4	State policies and Economic Underdevelopment
Lecture-5	Commercialization of Agriculture, Process of Industrialization, Composition of Foreign Trade
Lecture-6	Trends in National Income Growth of Indian Economy
Lecture-7	Human Development Index, Components, Measurement methods of HDI
Lecture-8	Gender Inequality Index – Gender Empowerment Measure
Lecture-9	Occupational Structure and Economic Development
Lecture-10	Occupational Distribution of labor Force in India
Lecture-11	Employment Trends, Structure of Employment
Lecture-12	Nature and Estimations of Unemployment in India, Types of Unemployment, Unemployment in Urban areas
Lecture-13	Unemployment in Rural Areas and Causes for Unemployment
Lecture-14	Major Unemployment Programmes: PMJKJY, GKY, MGNREGS etc.
Lecture-15	The concept of Poverty line and incidence of Poverty in India
Lecture-16	The concepts of Absolute and Relative poverty, Multidimensional Poverty
Lecture-17	Causes for Poverty in India and Strategy of poverty Alleviation, Poverty Alleviation Programmes
Lecture-18	Inequalities: The pattern of Income Distribution in India
Lecture-19	Causes for Income equalities in India

Lecture-20	Government Policy and Measures
	Module-II
Lecture-21	Role of Agriculture in Indian Economy, Nature of India's Agriculture and cropping Pattern in India
Lecture-22	Agriculture Production and Productivity, Causes for Low Productivity and measures to increase Production and Productivity
Lecture-23	Land Reforms: Objectives, Abolition of Intermediaries, Tenancy Reforms
Lecture-24	Ceiling on Agriculture Holdings and Consolidation of Holdings, Co-operative Farming
Lecture-25	Need for agriculture finance, Sources of Agricultural Finance, Agricultural Finance – Cooperative Credit Societies
Lecture-26	Agricultural Finance - Commercial Banks and Rural Credit and Regional Rural Banks, NABARD
Lecture-27	Agricultural Marketing in India - Defects in Agri, Markets, Regulated Markets
Lecture-28	Co-operative Markets and Progress of Co-operative market in India, Government Measures to improve the system of Agricultural Marketing
Lecture-29	Economic Planning: Rationale for Planning, Features of Indian Plans and Objectives
Lecture-30	The Strategy of Planning, Failure of Mahalanobis Strategy and Departures of the Mahalanobis Strategy of Development
Lecture-31	Indian Five-Year Plans discussion of 1,2,3, 4, 5 Plans (objectives, allocations and review)
Lecture-32	Indian Five-Year Plans discussion of 6,7,8,9, 10 Plans (objectives, allocations and review)
Lecture-33	Indian Five-Year Plans discussion of 11th Plans (objectives, allocations and review)
Lecture-34	Vision and Strategy of 12th Five Year Plan, Financing Pattern and sectoral Issues
Lecture-35	Achievements and failures of Indian Five Year Planes and Establishment of NITI Aayog
Lecture-36	Regional Planning in India: Magnitude of Regional Imbalances in India

Lecture-37	Regional Planning Policy in India and Lack of Genuine Regional Planning in India
	Module-III
Lecture-38	Industrial policies, 1948, 1956, Industrial Regulation Act 1951and 1991 IPR
Lecture-39	Role of Public Sector in India, Performance and Problems
Lecture-40	Role of Private Sector in India, Performance and Problems
Lecture-41	Growth and Pattern of Industrialization, Small Scale Industries significance and Problems
Lecture-42	Privatization in India – Methods and proceeds from Disinvestment and criticism
	Module-IV
Lecture-43	Fiscal Federalism: Central State Financial Relations
Lecture-44	Fiscal Federalism: Finance of Central Government (IT, CT, Capital Gains, Surcharge on Income tax, Costumes duty, Railway Fares etc.)
Lecture-45	Fiscal Federalism: Finance of State Government (Land Revenue, Stamp Duty, State Duty, Agricultural Income, Entry Tax, Taxes on Vehicles etc)
Lecture-46	Fiscal Federalism: Goods and services Tax
Lecture-47	Fiscal Federalism: Fiscal Sector reforms in India
Lecture-48	Fiscal Federalism: Monetary and Credit Policies in India
Lecture-49	Fiscal Federalism: Financial Sector Reforms in India
Lecture-50	Fiscal Federalism: Parallel Economy (Black Money, Government Policies, Programmes and Demonetarization
Lecture-51	Fiscal Federalism: Problems of Federal Finance in India
	Module-V
Lecture-52	Economic Reforms in India: Liberalization, Globalization and Privatization Policy
Lecture-53	Economic Reforms in India: Changing Role of State
Lecture-54	Economic Reforms in India: India's Commitments to WTO
Lecture-55	Economic Reforms in India: Meaning and Globalization in India

Lecture-56	Economic Reforms in India: Steps towards Globalization and Effects of Globalization
Lecture-57	Economic Reforms in India: National Agenda for Good Governance
Lecture-58	Trade Policy of Government of India: Import Policy, Export Policy
Lecture-59	Trade Policy of Government of India: New Trade Policy 2015-2020
Lecture-60	Foreign Trade Policy: Trade Reforms in India
Lecture-61	Foreign Capital: Components of Foreign Capital, Need for Foreign capital
Lecture-62	Foreign Capital: Government Policy towards Foreign Capital, Foreign Investment Flows
Lecture-63	Foreign Capital: Foreign Investment Inflows since 1991: tactical Appraisal
Lecture- 64	Foreign Capital: Foreign Aids, External Borrowings, NR Deposits
Lecture-65	Multinational Corporations(MNCs): Reason for growth of MNCs, Foreign Collaborations and MNCs
Lecture-66	Multinational Corporations(MNCs): MNCs operations in Indian Economy
Lecture-67	Multinational Corporations(MNCs): Control over MNCs
Lecture-68	Foreign Exchange rate Policy: Choice of Exchange rate regime, Exchange rate management in India
Lecture-69	Foreign Exchange rate Policy: The management of Foreign Reserves Managements
Lecture-70	Foreign Exchange rate Policy: The Issue of Capital Account convertibility
Lecture-71	Foreign Exchange rate Policy: Foreign Exchange Regulation Management Act

ENVIRONMENTAL ECONOMICS- Paper-III

Lecture Number	Content of subject for teaching
	Module-I
Lecture-1	Meaning & definition of Environment Economics, Valuation of Environmental damages
Lecture-2	Environmental segments: Lithosphere, Hydrosphere, Atmosphere and Biosphere, Ecosystem
Lecture-3	Organization and Structure of the Ecosystem: Abiotic Group, and Biotic Group - services of Environment
Lecture-4	Flow chart of relation between Economics and Environment, Traditional Economics Vs Environmental economics
Lecture-5	Economy and Environment Linkage, Dependence of Human Beings on the Environment
Lecture-6	The Theory of Market Failure: Role of Market in Economy, Perfect competition market, Equilibrium.
Lecture-7	The Theory of Market Failure: Pareto Optimality, Characteristics of Environmental Goods
Lecture-8	The Theory of Market Failure: Internalizing Externalities, Role of the Government
Lecture-9	Environmental Taxes and Environmental Subsidies
Lecture-10	Kenneth Boulding theory of Space ship Earth, Space ship Characteristics
Lecture-11	E. F. Schumacher's Theory of Small is beautiful
Lecture-12	Garratt Hardin's Tragedy of the Commons: Characteristics
Lecture-13	Club of Rome Model, Objectives, Assumptions, Exponential and Linear Growth and Graphical Explanation
Lecture-14	Club of Rome: Five Growing Systems, Non-Renewable resources, (Static Reserve Index, Exponential Reserve Index)

Lecture-15	Club of Rome: Population, Population Growth, Industrial Growth, The Computer Model, Criticism
Lecture-16	Daly's Steady State Economics
Lecture-17	Input – output models of the Environment: The Ayres- Knees Model
Lecture-18	Input – output models of the Environment: The Cumberland Model and Daly Model
	Module-II
Lecture-19	Theories of Natural Resource Management: Entropy Law, First and second law of Thermodynamics
Lecture-20	Theories of Optimum Extraction of Non- Renewable Resources: Hoteling Theory (Assumptions, User Cost, Augmented User Cost, Conditions for Optimal depletion of the exhaustible resource).
Lecture-21	Theory of Optimal depletion of Renewal Resources (Critical Minimum Size, Maximum Sustainable Yield),
Lecture-22	Efficient levels of production (The Static Case- assumptions, Equilibrium under Perfect Competition, Maximum Sustainable Yield, Profit maximizing Condition and Discounting
Lecture-23	Theory of optimum Exploration of Renewable Resources: Dasgupta and Heal Model (assumptions, Model)
Lecture-24	Sustainable Development: Definition, Principles, Features and components of Sustainable Development
Lecture-25	Weak Sustainability Theory: Solow – Hartwick Model
Lecture-26	Strong Sustainability Theory: The London School Critical Natural Capital, The Safe Minimum Standard
Lecture-27	Very Strong Sustainability Theory: Hoteling Ecological Resilience theory and model
Lecture-28	The Common – Perring Model of VVS: Objectives, Ecosystem Parameters, Economic Growth, Constrains and Solution.

Lecture-29	Theories of Sustainable Development: Herman Daly's Operational Principles, Objectives, Operational principles
Lecture-30	Theories of Sustainable Development: Daly 's Model of sustainable development and Limitations
	Module-III
Lecture-31	Theory of Pollution Control: Optimum Level of Pollution
Lecture-32	Theory of Pollution Control: Government Regulation, Government Controls
Lecture-33	Polluter's Pays Principles: Pollution taxes, Pigouvian Tax, Subsides, Tradable Pollution Permits
Lecture-34	Government Regulation: Command and Control Measures, Judicial Intervention
Lecture-35	Coase theorem: Property Rights, Assumptions explanation with Graph and Limitation
Lecture-36	Role of Government in Environmental Regulation: Ministry of Environment and Forests
Lecture-37	Environmental Laws in India: The Water (Control and Prevention of Pollution) Act, 1974
Lecture-38	Environmental Laws in India: Water (prevention & Control of Pollution) Cess Act, 1977
Lecture-39	Environmental Laws in India: Environment Protection Act, 1986
Lecture-40	Central Government measures to protect and Improve the Environment (Rules to regulate pollution, Aspects covered under the EPA)
Lecture-41	WTO and Environmental impacts and Global Environment Problems (Acid Rain, Ozone Layer Depletion, Hazardous Wastes, Green House Gas, Climate Change and persistent Organic Pollution)
Lecture-42	International Environmental Agreements: UN Conference on the Human Environment, Stockholm - 1972
Lecture-43	United Nations Conference on Environment and Development, Rio de Janerio 1992

Lecture-44	World Summit on Sustainable Development Johannesburg- 2002 (water, Energy, Health, Agriculture, Bio-Diversity and other Issues
Lecture-45	Other International Agreements: Convention on Long Range Trans Boundary air Pollution -1979
Lecture-46	Other International Agreements: Montreal Protocol on Substance that Deplete the Ozone Layer- 1987
Lecture-47	United Nations Frame Work Convention on Climate Change (UNFCCC) 1985- Persistent Organic Pollutants Treaty.
	Module-IV
Lecture-48	Environment Costs and Benefits: Importance of Environmental Costs and Benefits for projects, User and Non-User Benefits
Lecture-49	Direct and Indirect Valuation Methods: Direct and Indirect Observed Behaviors
Lecture-50	Measures of Environmental Value based on Hypothetical Behavior, Benefits Transfer
Lecture-51	Differences between Willingness to Pay and Willingness to Accept Compensation
Lecture-52	Measures of Environmental Value: Hedonic Property Values
Lecture-53	Measures of Environmental Value: Travel Cost Method (TCM)
Lecture-54	Measures of Environmental Value: Averted Expenditure and Dose Response Methods
Lecture-55	Green National Income: Environmental Goods and Services in National Income Accounts
Lecture-56	Un System of Integrated Economic and Environmental Accounting and Genuine Saving
Lecture-57	Environmental Impact Assessment (EIA): Objectives, Elements of EIA, EIA in India
Lecture-58	Environmental Impact Assessment (EIA): Environmental Audit- Aims- Components- steps for auditing etc.
	Module-V

Lecture-59	Environmental Problems in India: Air Pollution (Consequences of Deteriorating Air Quality, Air Quality Control)
Lecture-60	Water Pollution: Effects, Control of Water Pollution, Water Pollution in India
Lecture-61	Land Pollution: Soil Pollution, Waste Disposal, land Degradation, Soil Erosion and Control measures
Lecture-62	Forest and Environment Quality: Destruction of Forests, Importance of Forests to Human society, Causes and consequences of Deforestation
Lecture-63	Forest and Environment Quality: Climate and Deforestation, Conservation of Forests
Lecture-64	Environmental Problems in India: Agricultural and Industrial Pollutions in India
Lecture-65	Environmental Problems in India: Vehicular Pollution in Urban Areas
Lecture-66	Impact of Green Revolution Techniques on Pollution and consequences
Lecture-66	Functions of Ministry of Environment and Forests
Lecture-67	Functions of Central Pollution Control Board: History of the board and Functions
Lecture-68	Functions of State Pollution Control Board: History of the board and Functions
Lecture-69	Functions of Central Pollution Control Board as State board for the Union Territories
Lecture-70	People's participation in Environmental Movements: Chipko movement, Deforestation in the Western Ghats, Narmada Valley Project etc. for extra knowledge.

Research Methodology- Paper-IV

Sl.no.	Name of the Topic	Number of Hours
1	Definitions of research	1 hour
2	Need of the research under taking	1 hour
3	Aims and Objectives of Research in Economics	1 hour
4	Scope of Research in Economics	1 hour
5	Types of research	1 hour
6	Exploratory research	1 hour
7	Descriptive Research	1 hour
8	Analytical Research	1 hour
9	Theoretical Research	1 hour
10	Applied Research	1 hour
11	Quantitative Research	1 hour
12	Qualitative Research	1 hour
13	Importance of review of literature	1 hour
14	Identification of Research Problem	1 hour
15	State of the Research Problem	1 hour
16	Theoretical framework of the Research Problem	1 hour
17	Review of literature	1 hour
18	Sources of literature	1 hour
19	Procedure of search for literature	1 hour
20	Procedure of writing reviews	1 hour
21	Identification of Research Gap	1 hour

22	Formulation of Research Objectives	1 hour
23	Formulation of Research Hypothesis	1 hour
24	Concept of Research Design	1 hour
25	Basic concept of sampling	1 hour
26	Non-random sampling- Judgment, Quota and Convenience sampling	1 hour
27	Random sampling- Simple Random sampling or unrestricted random sampling	1 hour
28	Stratified Random sampling, systematic Random sampling, Multi-stage Random sampling	1 hour
29	PPS (probability proportion to size) sampling	1 hour
30	Uses of Sampling	1 hour
31	Sampling and Non-Sampling Errors	1 hour
32	Data Collection Methods	1 hour
33	Observation Method	1 hour
34	Participatory and non-participatory methods	1 hour
35	Case Study Method	1 hour
36	Survey Method	1 hour
37	Difference between Case study and survey Method	1 hour
38	Questionnaire Method	1 hour
39	Schedule Method	1 hour
40	Preparation of Questionnaire	1 hour
41	Projective Indirect Method	1 hour
42	Focus Group Study (FGD) Format	1 hour
43	Objectives and precautions to be taken for study	1 hour

44	Rapid appraisal Method	1 hour
45	Importance and procedure of collection of information	1 hour
46	Meaning of report writing	1 hour
47	Interpretation data results	1 hour
48	Techniques of interpretation of results	1 hour
49	Precautions to be taken for interpretation	1 hour
50	Significance of interpretation	1 hour
51	Steps in Report writing	1 hour
52	Layout of the Research Report	1 hour
53	Types of Reports-Technical Report, Popular Report	1 hour
54	Mechanics of Writing Research Report	1 hour
55	Writing Executive Summary and points to be included	1 hour
56	Presentation of the Report	1 hour
57	Usage of computers in Report writing	1 hour
58	Data analysis	1 hour
59	Preparation of project proposal	1 hour
60	Preparation of project proposal	1 hour

Subject: Economics of Infrastructure, Sem-IV, Paper- V

Lecture	Topic name	Remarks
Unit-I	**Introduction to Infrastructure Economics**	1 hour
1	Meaning and definitions of Infrastructural Economics	1 hour
2	Types of infrastructure (Physical, Social Infrastructure)	1 hour
3	Economic infrastructure (Electricity, Transportation, Energy)	1 hour
4	Social Infrastructure	1 hour
5	Peak load problem and pricing of infrastructure	1 hour
6	Off load problem and pricing of infrastructure	1 hour
7	Present status and progress of infrastructure	1 hour
8	Investment on infrastructure development in India	1 hour
9	Role of infrastructure in economic development	1 hour
10	Role of infrastructure in economic development	1 hour
11	Infrastructure as a public good (Principles of Public Goods)	1 hour
12	Does infrastructure is satisfying the public good properties?	1 hour
13	Problems in infrastructure development (Financial, institutional, tech and operational)	1 hour
14	Infrastructure financing in India- Issues and Challenges	1 hour
15	Infrastructure financing policies in India	1 hour
16	Status of infrastructure facilities in India	1 hour

Unit-II	Transport system	1 hour
17	Meaning and different definitions of transport	1 hour
18	Functions of transportation	1 hour
19	Types or different modes of transportation	1 hour
20	Land transportation different types, its merits and demerits	1 hour
21	Water transportation different types, its merits and demerits	1 hour
22	Air transportation different types, its merits and demerits	1 hour
23	Concept of transport pricing and its causes	1 hour
24	Concept of externality (using transport example)	1 hour
25	AC, MC and congestion approaches of transport pricing	1 hour
26	Present status of transport infrastructure in India	1 hour
27	Issues and challenges of transport development in India	1 hour
28	Development of transport infrastructure in various plans in India	1 hour
Unit-III	Importance of Energy and Economic Development	1 hour
29	Concept of energy its importance in economic development	1 hour
30	Relationship between energy and economic development	1 hour
31	Analyzing different sources of energy	1 hour
32	Renewable energy sources its merits and misuse	1 hour
33	Non- renewable energy its advantages and disadvantages	1 hour

34	Energy conservation meaning, its importance	1 hour
35	Methods of energy conservation	1 hour
36	Energy shortage and its effects on economic development	1 hour
37	Energy production status in India	1 hour
38	Problems in energy production in India	1 hour
39	Energy production and consumption status in India	1 hour
40	Energy financing and its necessity to push the Indian energy sector	1 hour
41	Energy policies in India	1 hour
Unit-IV	**Social Infrastructure**	1 hour
42	Social infrastructure concept and its types	1 hour
43	Social infrastructure and economic development	1 hour
44	Meaning of human resource development and its goals	1 hour
45	Scope and relevance of human resource development	1 hour
46	Educational infrastructure and economic growth (theoretically)	1 hour
47	Empirical analysis of Educational infrastructure and economic growth	1 hour
48	Educational planning its objectives and importance	1 hour
49	Different approaches of educational planning- Social demand approach	1 hour

50	Rate of return approach of educational planning	1 hour
51	Man, power balance approach of educational planning	1 hour
52	The case of universal, free, primary education: History, status and implementation	1 hour
53	Primary education and secondary education its issues and importance	1 hour
54	Higher education status, issues and challenges in India	1 hour