

MA (Economics) Honours- 2 years (1st Semester)

S.No	Course Code	Course Title	Course Type	Credits			Credit Units
				L	T	P	
1	ECN 601	Microeconomics: Theory and Practices- I	Core Course	5	0	0	5
2	ECN 602	Macroeconomics: Theory and Practices- I	Core Course	5	0	0	5
3	ECN 603	Quantitative Techniques for Economists- I	Core Course	5	0	0	5
4	ECN 604	International Economics	Core Course	5	0	0	5
5	ECN 605	Agricultural Economics	Discipline Specific Elective Course	4	0	0	4
6	ECN 606	Industrial Economics	Discipline Specific Elective Course	4	0	0	4
7		Professional & Business Communication-I	Value Added Course	1	0	0	1

8		Self-Development and Interpersonal Skills-I	Ability Enhancement Course	1	0	0	1
Note:	1 Discipline Specific Elective to be chosen from 2 being offered						
		Total Credits		26			

Course Title:

Microeconomics: Theory & Practices-I

L	T	P/S	SW/F W	Total Credit Units
5	0	0	0	5

Course Contents/syllabus:

	Lecture Hours
Unit I: Central Ideas of Economics	22
<ul style="list-style-type: none"> • How do People Make Decisions? People: face ‘Trade Offs’; Incur Opportunity Costs and Gain Benefits of Decisions; Think at the Margin and Respond to Incentives. • How do People Interact? Specialization and Exchange can make each party ‘Better Off’ Market often work efficiently, The Invisible Hand; • Three Coordination Tasks in the Economy: Which Commodity be Produced and How much of it? Who should produce it and how? Who should Consume and How much of it? • Methodology of Economics as a Social Science: Alternative Processes of Construction of Positive Economic Theories. • Equilibrium: Concept, Stability, Existence and Uniqueness of Equilibrium. • Types: Static and Dynamic Equilibrium. Partial and General Equilibrium. 	

<ul style="list-style-type: none"> • Stability Analysis: Marshallian and Walrasian Approaches. 	
Unit II: Analysis of Consumer Choice under Certainty, Consumer Surplus, Application of Indifference Curves	23
<ul style="list-style-type: none"> • Cardinal Analysis, Ordinal Utility Approach; Revisiting Consumer Equilibrium and Effects of Changes in Relative Prices and Money Incomes and Derivation of ‘Marshallian’ and ‘Compensated’ Demand Curves. • Consumer Surplus: Hicks’ and Marshall’s Approach. • Application of Indifference Curves: Cash Subsidy Vs. Kind Subsidy: Income Leisure Choice; Intertemporal Choice of Consumption. • Revealed Preference Theory and Consistency of Choice. • Market Demand: The Role of Network Externalities; ‘Bandwagon’, ‘Veblen’ and ‘Snob’ Effects. 	
Unit III: Analysis of Consumer Behavior under Uncertainty and Asymmetric Information	23
<ul style="list-style-type: none"> • Analysis of Consumer Choice under Uncertainty: Measurement of Risk. Expected Utility and Preferences towards Risk. Why do people gamble (insure)? Risk Return Trade Off. Reducing Risk. • Analysis of Consumer Behavior under Asymmetric Information: Hidden Actions: Principals, Agents and Moral Hazard. • Hidden Characteristics: Adverse Selection Problem. • Market and Government Responses to the Problems of Moral Hazard and Adverse Selection. 	
Unit IV: Production and Cost Theory	22
<ul style="list-style-type: none"> • Theory of Production and Costs: Production, Input Choice and Cost with One Variable Input. Law of Returns to Variable Proportions and Choice of Optimum Quantity of an Input. • Derivation of Short Run Cost Curves from Productivity Curves of a Variable Factor of Production. • Reserve Capacity and the Shape of Short Run Cost Curves. • Multiple Input Decisions: The Choice of Optimal Techniques of Production and Factor Combinations. Factor Price Changes: Substitution and Output Effects. Elasticity of Input Substitution. • Constant, Increasing and Decreasing Returns to Scale. Expansion Path and derivation of Long Run Cost of Production Curves. 	

<ul style="list-style-type: none"> • Economies and Diseconomies of Scale: Shape of Short and Long Run Costs Curves: Theory versus Empirical Evidence. Multi Product Firms and Dynamic Changes in Costs: Economies of Scope; The Learning Curve Analysis. • Euler’s theorem; Technical progress and production; Cobb–Douglas, CES and their properties, Traditional and modern theories of costs – Derivation of cost functions from production function; (C–D and CES). 	
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Course Learning Outcomes: By the end of the course student will be able to critically assess current and future metrics, research technologies, and research data output related to the subject.

- Develop an understanding of central ideas of economics and microeconomics concepts and explanations.
- Assess diverse situations of Consumer Choice under Certainty, Consumer Surplus, Application of Indifference Curves Analyze the characteristics of perfect and imperfect markets with their relevance.
- Analyze the Consumer Behavior under Uncertainty and Asymmetric Information
- Evaluate the Theory of Production and Costs in the context of individual decision making as producers.

Text / Reference Books:

Author	Title	Publisher	Year of Publication	ISBN	Pages
Gregory Mankiw	Economics: Principles & Applications	Thomson Press (India) Ltd	2008	978-8131505779	
N. Gregory Mankiw	Principles of Microeconomics	Cengage Learning India Pvt. Ltd	2015	978-9386668295	520

H.L. Ahuja	Principles Of Microeconomics	S Chand Publishing	2016	978-9352533305	872
Mass Colell	Microeconomics Theory	Oxford	2016	978-0198089537	998
A. Koutsoyiannis	Modern Microeconomics	Macmillan Press			

**Course Title: Macroeconomics: Theory & Practises-
Course Contents/syllabus:**

L	T	P/S	SW/F W	Total Credit Units
5	0	0	0	5

I

	Lecture Hours
Unit I: Introduction to Macroeconomics and national income accounting and Income and Employment Determination	22
<ul style="list-style-type: none"> • National Income: Basic Concepts, Measurement of National Income and Difficulties; Domestic and National Product and their Components, • National income at factor cost and at Market Prices, Real and nominal GNP; • National Income and Welfare, Social Accounting and its significance, • System of National Accounts; Measurement of national Income in India. • Income and Employment Determination: Integrated Classical and Keynesian Models of Income and Employment Determination; commodity, money (including bond market of Keynes), and labour markets. Wage-Price Flexibility and Automatic Full Employment: Classical Versus Keynesian Approach. 	
Unit II: Consumption Theories	23

<ul style="list-style-type: none"> • Consumption and Consumption Function: Keynes Consumption and saving functions under Psychological law of consumption, Consumption Puzzle: Absolute Income hypothesis, Relative Income hypothesis, Permanent Income hypothesis and Life Cycle Hypothesis. • Consumption under Uncertainty: Random Walk Hypothesis; Interest Rate and Saving; Consumption and Risky Asset: Consumption CAPM. 	
Unit III: Investment Theories	23
<ul style="list-style-type: none"> • Investment Function: Inducement to invest – Marginal efficiency of investment and Marginal efficiency of capital criterion; the accelerator and investment behavior; Jorgenson’s Model. • Investment and Investment Function: Type of Investment, Role of investment using Investment Multiplier, Classical and Keynesian Theories of Investment, Accelerator Theory of Investment, Neo-Classical Theory of Investment and Tobin’s-q Theory of Investment. Effects of Uncertainty, Kinked and Fixed Adjustment Costs, Investment in the Housing Market. 	
Unit IV: DD and SS for Money Theories	22
<ul style="list-style-type: none"> • Money: Concept of money; A behavioral model of money supply determination, High powered money and money multiplier; control of money supply. Classical and Keynesian approach to demand for money; Post–Keynesian approaches to demand for money – Patinkin and the Real Balances Effect, Approaches of Baumol and Tobin; Friedman and modern quantity theory. • Supply of Money: Theoretical Debate and Empirical Attempts to define money; Components of Supply of Money, Credit Creation by Commercial Banks, Money Multiplier. Demand for Money: Classical Quantity Theory, Keynesian Theory, Baumol and Tobin’s Contributions. Friedman’s Restatement of Quantity Theory of Money. 	

Course Learning Outcomes: By the end of the course student will be able to critically assess current and future metrics, research technologies, and research data output related to the subject.

- Develop an understanding of macroeconomics concepts and explanations for the comprehension of income and output determination
- Asses the concept of consumption with various consumption theories

- Enable students to understand and comment upon real economic issues like inflation, money supply, GDP and their interlinkages.
- Critically evaluate various macroeconomic policies in terms of a coherent logical structure and appraise economic issues and public policy by using economic models.
- Analyse the investment theories with relevant models
- Analyze the dd and SS of money theories in the macroeconomic context.
- **Text / Reference Books:**

Author	Title	Publisher	Year of Publication	ISBN	Pages
A.Abel, B.Bernanke	Macroeconomics	Pearson Education	2016	9780134896441	651
O. Blanchard	Macroeconomics	Pearson Education	2018	978- 9332587601	624
Dornbusch, R., Fischer, S., Startz, R.	Macroeconomics	McGraw- Hill.	2018	978- 9339221188	680

Course Title: Quantitative Techniques for
Course Contents/syllabus:

L	T	P/S	SW/F W	Total Credit Units
5	0	0	0	5

Economists-I

	Lecture Hours
Unit I: Differentiation	22
<ul style="list-style-type: none"> • Review of Simple differentiation; Partial and total derivatives; Homogenous function; Euler's theorem, Maxima and Minima of a function of two independent variable; Constrained optimization; Lagrange's method. 	

<ul style="list-style-type: none"> • Application of Derivatives in Economics: Elasticity of demand; Partial elasticities; Competitive and Complementary Commodities; Optimization Problems in cost, Revenue etc. 	
Unit II: Growth Rates, Matrices and Equations	23
<ul style="list-style-type: none"> • Growth Rate and its Measurement; Present Value and its Applications. • Matrices: Review of adjoint, Determinants and inverse of matrices; Rank of Matrix; Linear Independence and Dependence of Vectors/Matrices; Solutions of Equations (upto three) by Matrix Inverse and Gauss elimination Methods; • Consistency of Equations; Quadratic Forms – Types and Properties. Simple Economic Applications. 	
Unit III: Correlation and Regression Analysis & Probability Theory	23
<ul style="list-style-type: none"> • Multiple and Partial Correlation involving three Variables. • The Linear Regression Model; Finding the Multiple Linear Regression Equation and Coefficients upto two explanatory variables: Interpretation of the Coefficients, R² and adjusted R² . • Probability Theory: Classical, empirical and Axiomatic Definitions of Probability. Laws of Addition and Multiplication (with examples); Bayes Theorem and its applications. Concept of Random Variable; probability mass and density functions; Expected Values, Moments (definition and types); Moments Generating Function (definition and properties). 	
Unit IV: Index Numbers and Time Series Analysis	22
<ul style="list-style-type: none"> • Concepts of Price Relative, Quantity Relative and Value Relative. Laspeyer's, Paasche's and Fisher Index Numbers. Test of an Ideal Index Number. • Base shifting, Splicing and deflating of Index Numbers. Problems in the Construction and Limitation of Index Numbers. • Time Series Analysis: Definition and components. Methods of Trend Measurement: Quadratic, Exponential and Modified Exponential. Seasonal Indices by Methods of Simple Average, Ratio to moving Average and Ratio to Trend. 	

Course Learning Outcomes: By the end of the course student will be able to critically assess current and future metrics, research technologies, and research data output related to the subject.

- Establish their understanding of Differentiation and its applications in Economics
- Demonstrate the measurement of growth rates, matrices and consistency of equations
- Analyze the usage of correlation, regression and probability theory
- Facilitating the comprehension and application of Index Numbers and Time Series Analysis

Text / Reference Books:

AUTHOR	TITLE	Publisher	Year of publication	ISBN	Pages
K. Sydsaeter, P. Hammond	Mathematics for economic analysis	Pearson Educational	2002	978-8177581041	800
Simon, C. and L. Blume	Mathematics for Economists	Norton London	2018	978-8130916002	956
Sheldon M. Ross	Introduction to Probability Models	Academic Press	2009	978-0123756862	800

Course Title: International Economics

L	T	P/S	SW/F W	Total Credit Units
5	0	0	0	5

Course Contents/syllabus:

	Lecture Hours
Unit I: Theories of International Trade	22
<ul style="list-style-type: none"> • What is international economics about? 	

<ul style="list-style-type: none"> • Trade and Economic Development • Pure Theories of International Trade: Adam Smith's Absolute Advantage Trade theory, Comparative Advantage, Opportunity Cost and Factor-Endowments. • Theorem of Factor Price Equalization, Empirical testing of Absolute cost and Comparative Cost and Heckscher-Ohlin theory of trade. • Reciprocal Demand, Offer Curve Analysis and determination of international prices. • New Theories of International Trade: market structure, economies of scale, intra-industry, product differentiation and technology 	
Unit II: Terms of Trade & Tariffs	22
<ul style="list-style-type: none"> • Gain from trade and its distribution • Terms of Trade: concept and measurement; Secular Deterioration thesis of terms of trade • Emmanuel's theory of unequal exchange • Free Trade vs Protection • Tariff: Concept, Theory of Tariffs, Effects of Tariffs: Partial and General Equilibrium Analysis, Optimum and effective rates of tariff. • Stolper-Samuelson theorem • Political Economy of Non-tariff barriers 	
Unit III: Foreign Exchange & Balance of Payment	23
<ul style="list-style-type: none"> • Exchange rates: Spot and Forward, Fixed and Flexible • Foreign exchange risks, Hedging and Speculation • Determination of Foreign exchange: Mint Parity Theory, Purchasing Power Parity, Monetary Approach and Portfolio Balance Approach. • Optimum Currency Area • Balance of Payments: concept and component, Equilibrium and Disequilibrium in Balance of Payments. Adjustments under different exchange rate systems 	

<ul style="list-style-type: none"> • Policy for correcting disequilibrium in balance of payments: Expenditure reduction & switching, Devaluation & Absorption approach, Exchange controls and Monetary approach 	
Unit IV: Regional Economic Integration & International Monetary System(IMS)	23
<ul style="list-style-type: none"> • Theory of regional economic integration: forms of economic integration, static and dynamic effects of a custom union and free trade areas • National Security and International Trade regimes (WTO, TRIPS, TRIMS, NAFTA, SAPTA). India and WTO • Regional Economic Groupings: SAARC, NAFTA, EU, ASEAN and BRICS • International Monetary System: Gold Standard, the Rise and Fall of Bretton Wood System, IMF; IBRD; ADB and IFC: Functions, Organization and lending mechanism • Theory of International Reserves 	

Course Learning Outcomes: By the end of the course student will be able to critically assess current and future metrics, research technologies, and research data output related to the subject.

- Understand the concept of international trade by analyzing the various theories of trade.
- Evaluate the role of tariff and non-tariff barriers on the flow of goods outside the geographical boundaries of a nation.
- Develop an understanding of the concept of exchange rates and the importance of Balance of payments for a nation.
- Assess the role of regional economic integration and International monetary system in this era of globalization.

Text/ Reference Books:

Author	Title	Publisher	Year of Publication	ISBN	Pages
Paul Krugman	International Economics: Theory and Policy	Pearson Education	2017	978-9332586550	792

D.L. Salvatore	International Economics	Prentice Hall	2012	978-1118177938	720
Krugman, P., Obstfeld, M., Melitz, M	International Economics - Theory and Policy	Pearson Education	2018		785
Rana, K.C. & Verma, K.N.	International Economics	Vishal Publishing Co.	2017	978-9382956372	728

L	T	P/S	SW/F W	Total Credit Units
4	0	0	0	4

Course Title: Agricultural Economics

Course Contents/syllabus:

	Lecture Hours
Unit I: Introduction, Role of Agriculture and Agricultural Transformation	18
<ul style="list-style-type: none"> Introduction: Nature and Scope of Economics of Agriculture; Specificities of Farm Organization and Agricultural Production and Markets; Inter-sector Linkages of Agriculture [Backward and Forward Linkages]. 	

<ul style="list-style-type: none"> • Interface between Agriculture and Industry; Land Reforms, Agriculture Development during Planning Periods; Green Revolution; Growth, Productivity and Regional Disparities in Indian Agriculture; Agrarian Crisis and Farmer Suicide • Schultz Theory of Transformation of Traditional Agriculture Mellor's Model of Agricultural Development; Hayami- Ruttan Induced Innovation Model of Agricultural Development, Lewis, FEI-Ranis and Baserp's model. • Agricultural Transformation: Indian Experience. 	
Unit II: Agricultural Production	18
<ul style="list-style-type: none"> • Uniqueness of Agricultural Production; Various Types of Factor-Product, Factor-Factor and Product-Product Relations; Cobb-Douglas and CES Production Functions. • Role of Farm Size and Structure in Equilibrium, Productivity, and Return to Scale. • Sources and Barriers to Agricultural Development. • Farm Size and Productivity Relationships 	
Unit III: Structure, Uncertainty and Issues in Agriculture	18
<ul style="list-style-type: none"> • Institutional Structure – Nature of emerging agrarian structure – co-operative farming and its evaluation with reference to productivity, employment and income distribution, Environment and soil erosion, sustainable development. Organic farming – meaning, techniques of organic farming and its scope in India. • Risk and Uncertainty in Agriculture: Nature and Types of Risks and Uncertainties in Agriculture, Public Policies and Farm Level Measures to Reduce Risk and Uncertainties. • Environmental Issues in Agriculture; Farm Management: Basics; Agricultural Marketing: Existing Structure, Problems, Costs and Efficiency in the markets, Marketing Reforms, Innovations in Agricultural Marketing System 	
Unit IV: Demand and Supply for Farm Products	18
<ul style="list-style-type: none"> • Demand for Farm Products: Characteristics of Demand for Farm Products; Quantity and Quality Components of Demand for Food; Forecasting of Demand for Food Products. 	

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| <ul style="list-style-type: none"> • Supply of Farm Products: Characteristics of Supply of Farm Products, Supply Response of Farm Products; Role of Price and Non-Price Factors in Inducing Aggregate Supply, Empirical Supply Response Functions and Evidence. | |
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Course Learning Outcomes: By the end of the course student will be able to critically assess current and future metrics, research technologies, and research data output related to the subject.

- Establish their understanding of the nature, scope and role of Agriculture in an economy and transformation agriculture through technical theories
- Demonstrate the agricultural production through different production functions
- Analyze the Institutional Structure, Risk and Uncertainty and Issues in Agriculture
- Project their critical analysis of dd and SS of agricultural goods.

Text / Reference Books:

Author	Title	Publisher	Year of Publication	ISBN	Pages
Karl, E. & Witt, L.	Agriculture and Economic Development.	New York: McGraw Hill Company	1964		
Southworth, H. & Johnston, B	Agricultural Development and Economic Growth.	New York : Cornell University Press.	2011		

Subrata, G. & Ingersent, K.	Agriculture and Economic Development.	London : Harvester Press Ltd.	1984		
Tsakok, I.	Success in Agricultural Transformation: What It Means and What Makes It Happen.	New York: CambridgeUniversity Press.	2011		

L	T	P/S	SW/F W	Total Credit Units
4	0	0	0	4

Course Title: Industrial Economics

Course Contents/syllabus:

	Lecture Hours
Unit I: Introduction	18
<ul style="list-style-type: none"> Industrial Economics – Meaning, Nature and Scope, Concept and organization of the firm, ownership, control and objectives of the firm, passive and active behaviour of the firm. Constraints of Proprietorship. Advantages of Modern Corporation. Critiques of Profit Maximization Hypothesis. Non-profit Maximization models: Boumol, Williamson, Marris and Cyert and March. 	

<ul style="list-style-type: none"> • Critical overview of Non-Profit Maximization Hypothesis 	
Unit II: Market Structure and Theories of Industrial Location	18
<ul style="list-style-type: none"> • Monopoly Power and Oligopolistic Market Structure. Measures of Sellers' Concentration and advantages of the HHI index. Deterministic Explanation of Sellers' Concentration: Economies of Scale, Barriers to Entry, Mergers, Size and Growth of Markets; Stochastic Explanation • Market Structure: Seller's concentration, product differentiation, entry conditions, economies of scale, market structure and profitability, and market structure and innovation; • Theories of industrial location: Weber and Sargent Florence, factors affecting location; Industrial Finance in India. 	
Unit III: Market Conduct	18
<ul style="list-style-type: none"> • Market Conduct under Oligopoly: Concepts and Overview of Outcomes under Interdependence: • Concepts of Cournot and Bertrand Rivalry, Collusive Conduct and Dominant Firm Behaviour and Potential Competition. • Limit Price and Contestable Markets. • Non-Price Competition with Reference to Advertising: Dorfman-Steiner Condition and its Critique. • Evolution of Structure-Conduct-Performance Hypothesis 	
Unit IV: Market Performance and Public Policy	18
<ul style="list-style-type: none"> • Market Performance: Market Structure and Profitability; Collusion versus Efficiency. • Issue of Allocative Efficiency. • Issues of Productive Efficiency and Sub-Optimal Capacity; factors explaining sub-optimal capacity. • Public Policy towards Market Structure, Conduct and Performance. • Optimality of Perfect Competition. • Costs of Monopoly: Theoretical Issues and Empirical Measurement of Social Welfare Loses. • Evolution of Govt. of Indian Policy towards Monopolistic and Restrictive Practices: Theoretical issues. 	

Course Learning Outcomes: By the end of the course student will be able to critically assess current and future metrics, research technologies,

and research data output related to the subject.

- Establish their understanding of the basic concepts of firm and industry and overview of non profit maximization hypothesis
- Demonstrate the elements of market structures and theories of industrial location
- Analyze the structure, conduct and performance of oligopolistic market structures
- Project their critical understanding of market performance of different market structures and related issues.

Text / Reference Books:

Author	Title	Publisher	Year of Publication	ISBN	Pages
Stephen Martin	Industrial Economics : Economic Analysis and Public Policy.	McMillan Publishing Co., NewDelhi	1993	978-0023767869	664
R. Clarke	Industrial Economics	Blackwell Publishers, Oxford.	1985		
Wiliam, G Shephered	The Economics of Industrial Organization Analysis, Market Policies.	Prentice Hall International	1997	978-0135684863	447

FM Scherer & DavidRoss	Industrial Market Structure and Economic Performance	Boston Houghton Mifflin Company	1980	978-0395307267	632
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Course Title: Professional & Business Communication—I

Course Contents/Syllabus:	
Unit I: Workplace Communication	W %
Nature and process of communication: Linear concept, Aristotle’s Model, Shannon-W Model; importance of communicating effectively; stages of communication: ideation, encoding, transmission, decoding and response; barriers to effective communication: physiological, socio-psychological, cultural, language, and organizational, incorrect assumptions, information overload, semantic barriers; guidelines to overcome communication barriers; channels of communication: downward, upward, horizontal, & diagonal; goals of organizational communication: receiver understanding, receiver response, favourable relationship and organizational goodwill.	25
Unit II: Communication for Team Building and Leadership	
Nature and types of organizational communication; relevance of communication in organization and business; critical listening; functions of nonverbal communication; effective use of nonverbal communication; characteristics of interpersonal communication; creating a positive communication climate; problem solving in teams; effective leadership communication; emotionally intelligent communication; giving and receiving feedback; overcoming barriers to listening.	25

Unit III: Effective Presentation Skills	
Pre-presentation jitters; preparation and practice; delivering a presentation; qualities of a skilful presenter; capturing and maintaining attention; handling questions; Power point presentations.	25
Unit IV: Communication Strategy and Professional Writing	
7 Cs of communication; using unbiased language; writing process: pre-writing, writing & post-writing; neutral and positive messages; negative messages; persuasive messages; letters, memo. Report Writing: Functions of a report, Types of reports, Format of the reports, Use of Visuals-Charts, Tables, Pictures	25

Course Learning Outcomes: Students will be able to:

- Understand the nature, scope, and power of communication processes.
- Understand the relevance of communication in organizations.
- Analyze communication situations and audiences to make choices about the most effective and efficient ways to communicate and deliver messages.
- Communicate effectively in teams and culturally diverse audiences.
- Write grammatically correct business documents using appropriate business styles.
- Create effective résumés, cover letters, and follow-up messages.
- Participate effectively in group discussions and interviews.

References:

AUTHOR	TITLE	Publisher	Year of publication	ISBN	Pages
1. P. D. Chaturvedi	<i>Business Communication: Concepts, Cases and</i>	Pearson Education	2006	9788131701720	516

and Mukesh Chaturvedi	<i>Applications</i>		2009	9788131721209	582
2. Courtland L Bovee, John V Thill and Mukesh Chaturvedi	<i>Business Communication Today</i>	Pearson Education	2015	9789339221607	526
3. Peter W. Cardon	<i>Business Communication: Developing Leaders for a Networked World</i>	McGraw Hill Education (India) Edition			

Course Title: Self-Development and Interpersonal Skills

Course Contents/syllabus:

	Weightage (%)
Unit I: Understanding Self and Worth	40%
Formation of self concept Dimension of Self Components of self; Self Competency; Meaning and Nature of Self Esteem Importance & need of Self Esteem; Steps to enhance Self Esteem; Self Esteem at work	
Unit II: Emotional Intelligence: Brain Power	15%
Introduction to EI; Difference between IQ, EQ and SQ Relevance of EI at workplace; Self assessment, analysis and action plan	
Unit III: Managing Emotions and Building Interpersonal Competence	20%
Need and importance of Emotions; Healthy and Unhealthy expression of emotions Anger: Conceptualization and Cycle Developing emotional and interpersonal competence; Self assessment, analysis and action plan	
Unit IV: Leading Through Positive Attitude	25%
Understanding Attitudes; Formation of Attitudes; Types of Attitudes; Effects of Attitude on:	

Behavior, Perception, Motivation, Stress, Adjustment, Time Management, Effective Performance Building Positive Attitude	
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Course Learning Outcomes: At the end of this course, the students will be able to:

- To apply cutting edge scientific insights about human behaviour, and learn how to change human behavior by altering the “context” in which people act rather than how they think
- Understand state-of-the-art methodological and statistical approaches that are necessary to evaluate the effectiveness of behavioral change.
- Apply behavioral science knowledge and skills to develop insights on individuals and society
- Analyze the nature of human behavior and the impact of factors that influence how humans feel, think and act at an individual, group and societal level
- Evaluate the influence of values and attitudes on human behavior

Text / Reference Books:

AUTHOR	TITLE	Publisher	Year of publication	ISBN	Pages
Singh A.	Achieving Behavioural Excellence for Success	Wiley Publication	2012	978812658027	248
Towers, Marc	Self Esteem	American Media	1995	9781884926297	68
Pedler Mike, Burgoyne John, Boydell Tom	A Manager’s Guide to Self-Development	McGraw-Hill	2006	978-0077114701	288

Covey, R. Stephen	Seven habits of Highly Effective People	Simon & Schuster Ltd	2013	978-1451639612	432
Khera Shiv	You Can Win	Macmillan	2005	978-0333937402	290
Gegax Tom	Winning in the Game of Life	Harmony Books	1999	978-0609603925	318
Singh, Dalip	Emotional Intelligence at Work	Sage Publications	2006	9780761935322	196
Goleman, Daniel	Emotional Intelligence	Bantam Books	2007	9780553095036	352
Goleman, Daniel	Working with E.I	Bantam Books	1998	9780553104622	383

MA (Economics) Honours- 2 years (2nd Semester)

S.No	Course Code	Course Title	Course Type	Credits			Credit Units
				L	T	P	
1	ECN612	Microeconomics: Theory and Practices- II	Core Course	5	0	0	5

2	ECN 607	Macroeconomics: Theory and Practices- II	Core Course	5	0	0	5
3	ECN 608	Quantitative Techniques for Economists- II	Core Course	5	0	0	5
4	ECN 609	Economics of Growth and Development	Core Course	5	0	0	5
5	ECN610	Monetary Economics and Banking System	Discipline Specific Elective Course	4	0	0	4
6	ECN611	History of Economic Thought	Discipline Specific Elective Course	4	0	0	4
7		Professional & Business Communication-I	Value Added Course	1	0	0	1
8		Self-Development and Interpersonal Skills-I	Ability Enhancement Course	1	0	0	1
Note:	1 Discipline Specific Elective to be chosen from 2 being offered						
		Total Credits		26			

L	T	P/S	SW/F W	Total Credit Units
5	0	0	0	5

Course Title: Microeconomics: Theory and Practices- II
Course Contents/syllabus:

Practices- II

	Lecture Hours
Unit I: Analysis of Competitive and Monopoly Markets	22
<ul style="list-style-type: none"> • Profit Maximization and Equilibrium of a Firm and Industry in the Short Run and Long Run under Perfect Competition including the Supply Curve. • Consumers' and Producers' Surplus and Efficiency of Perfect Competition. • Welfare Effects of an Excise Tax, Import Tariff, Price controls (supports) and Production Quotas. • Monopoly: Source, Measurement and Welfare Costs and Dynamic benefits of Monopoly Power. Monopoly Price Discrimination. Output and Welfare Comparisons with Single Price Monopoly. Inter-temporal Price Discrimination and Peak Load Pricing. Two part tariffs and Tie-in Sales. • Public Policy toward Monopoly 	
Unit II: Analysis of Monopolistic Competition, Oligopoly, Strategic Decision Making and Firm Behavior	23
<ul style="list-style-type: none"> • Stylized Facts for Monopolistic Competition, A firm's Short and Long Run Equilibrium with Differentiated Products and Selling Costs (Advertisement). Chamberlin's model Group equilibrium. • The Issue of Excess Capacity under Monopolistic Competition. The debate over Advertising. • Oligopoly: Cournot, Stackellberg and Kinked demand Curve. • Leadership Models. Collusion and Cartels. • Game Theory and Economics of Cooperation: Dominant Strategy and Nash Equilibrium. The Prisoner's Dilemma, Mixed Strategies, Repeated Games, Collusion and Tit-for-Tat Strategy, repeated games, threats, commitments and credibility. • Public Policy towards Oligopoly. Contestable Markets, Full cost pricing rule, limit pricing theory. • Analysis of Firm Behavior: Baumol's sales revenue maximization model; Williamson's model of managerial discretion; Marris model of managerial enterprise 	
Unit III: Marginal Productivity Theory and Factor Pricing	23
<ul style="list-style-type: none"> • Neo-classical approach – Marginal productivity theory; Modern Theory of distribution; technical progress and factor shares. 	

<ul style="list-style-type: none"> • Markets for Factor Inputs: Factor Pricing under Perfect Competition: Demand for a Factor Input when One Input is Variable. Demand for a Factor Input when Several Inputs are Variable. Market Demand for a Labour. Supply of Labour by an Individual: Trade Off between Work and Leisure. Wage rate determination. Factor Pricing under Imperfect Competition: Wage rate determination with Monopolistic Power in Product Market, Monoposonistic Power in Factor Market; Bilateral Monopoly. Competitive Buyer Firm versus Monopoly Union. • Elasticity of factor Substitution; Technological Progress and Income Distribution; Pricing of fixed factors: Rents and Quasi Rents; Adding up Problem and Product Exhaustion Theorem. 	
Unit IV: General Equilibrium and Welfare Economics	22
<ul style="list-style-type: none"> • Partial and General Equilibrium, equity-efficiency trade off; Path to General Equilibrium; Two-factor, two-commodity, Two-consumer General Equilibrium System. • Pigovian welfare economics; Measurement of social welfare, Pareto optimal conditions; Perfect competition and pareto optimality; Compensation principle; Social welfare function: Burgeson's criterion, grand utility possibility frontier and welfare function; market failure, externalities and property rights, public goods, incomplete information; Theory of Second Best, Arrow's impossibility theorem; 	

Course Learning Outcomes: By the end of the course student will be able to critically assess current and future metrics, research technologies, and research data output related to the subject.

- Establish their understanding of analysing the dynamics of competitive and monopoly markets
- Demonstrate the working of monopolistic competition and oligopoly markets with focus on strategy making and economics of cooperation.
- Analyze the process of pricing the factors of inputs in different types of markets
- Comprehension of Partial and General Equilibrium analysis and the subject matter of welfare economics

Text / Reference Books:

Author	Title	Publisher	Year of Publication	ISBN	Pages
Gregory Mankiw	Economics: Principles & Applications	Thomson Press (India)	2008	978-8131505779	

		Ltd			
C. Snyder and W. Nicholson	Fundamentals of microeconomics	Cengage Learning	2010	978-8131514085	684
Hal Varian	Intermediate microeconomics: A modern approach	W. W. Norton	2010	978-8176710657	
H.L. Ahuja	Principles Of Microeconomics	S Chand Publishing	2016	978-9352533305	872

Course Title: Macroeconomics: Theory and Course Contents/syllabus:

L	T	P/S	SW/F W	Total Credit Units
5	0	0	0	5

Practices-II

	Lecture Hours
Unit I: Closed and Open Economy Modelling: IS-LM and IS-LM-BP Framework	22
<ul style="list-style-type: none"> IS and LM Framework Derivation, Properties, Shifts and Rotations of IS and LM Curves under closed and open economy systems. Derivation, Properties, Shifts, and Rotations of BP Curve. Simultaneous Equilibrium in Money and Product Markets. Impact of Opening-up on simultaneous equilibrium (i.e., IS-LM-BP simultaneous equilibrium). Monetary and Fiscal Policies: Objectives, Conflicts among Objectives. Relative Effectiveness of Monetary and Fiscal Policies under Different Situations in IS-LM-BP Framework. 	

<ul style="list-style-type: none"> • International Trinity and Quadrilemma choices under IS-LM-BP framework. • Mundell–Fleming model–Asset markets. • Monetary approach to balance of payments. 	
Unit II: Theories of Inflation	23
<ul style="list-style-type: none"> • Inflation: Effects of Inflation. Theories of Inflation: Quantity Theory, Keynesian Theory, Monetarist views on Inflation, Modern theory of Inflation, Structural Theory. • The menu of policy choices: Philips Curve Analysis –Short Run and Long Run views. Natural Rate of Unemployment hypothesis; Tobin’s modified Philips curve; Adaptive expectations and rational expectations; Policies to control inflation. • The Monetarist-Keynesian Debate and the Phillips Curve. 	
Unit III: Theories of Trade/Business Cycles	23
<ul style="list-style-type: none"> • Trade Cycle: Pure Monetary Theory; Monetary over investment theory; Schumpeter’s innovation theory; Keynes’ theory, Hansen–Samuelson Accelerator–Multiplier Interaction Model, Hicks trade cycle Model, Kaldor Model, Goodwin model of endogenous cycles. • Global Recession and Euro-Area Crisis. • Real Business Cycle Model: Disturbances and Propagation mechanism. • Macroeconomic Policy in Real Business Cycle Model. 	
Unit IV: Recent Developments in Macroeconomics	22
<ul style="list-style-type: none"> • The New classical critique of micro foundations, the New classical approaches; Policy implications of New classical approach; New Keynesian Approach. • The New Classical School: Rational Expectations Hypothesis: Dynamic Time Inconsistency, Policy Ineffectiveness Proposition. The Random Walk of GDP: The Relative Importance of AD and AS. • The New-Keynesian School: Real and Nominal Wage-Price Rigidity Models - Menu Costs Model, Implicit Wage Contract Models, Efficiency Wage Models, Insider-Outsider Models. 	

Course Learning Outcomes: By the end of the course student will be able to critically assess current and future metrics, research technologies, and

research data output related to the subject.

- Establish their understanding of the closed and open economy models with focus on International Trinity and Quadrilemma choices under IS-LM-BP framework
- Demonstrate the working mechanism of different theories of inflation
- Analyze the theories explaining business cycles
- Project their critical analysis of recent developments in the macroeconomics.

Text / Reference Books:

Author	Title	Publisher	Year of Publication	ISBN	Pages
Abel, A., Bernanke, B	Macroeconomics	Pearson Education	2016	9780134167398	672
Blanchard, O.	Macroeconomics	Pearson Education	2018	9789353945220	576
Dornbusch, R., Fischer, S., Startz, R	Macroeconomics, 12th ed	McGraw- Hill	2018	9780073375922	636
Mankiw, N	Macroeconomics	Worth Publishers	2016	9789386668424	408

Course Title: Quantitative Techniques for

L	T	P/S	SW/F W	Total Credit Units
5	0	0	0	5

Economists-II

Course Contents/syllabus:

	Lecture Hours
Unit I: Integration and Differential Equations- Economic Applications	22
<ul style="list-style-type: none"> • Integration: Indefinite and Definite, Integration of a Function of only one Variable; Methods of Integration; Substitution and Partial Fraction. • Application of Integration in Economics; Consumers' and Producers' Surplus; Finding Demand Function, Maximum Profit and Capital Growth Equation. • Differential Equations: Introduction, Solution of Differential equations – Variable-separable, Homogenous, Exact, Linear and Bernoulli's form cases; Solution of Linear Differential Equation with Constant Coefficients. • Economic Applications w.r.t. Demand, Revenue, Cost Functions and Simple Market Equilibrium Models. 	
Unit II: Difference Equations and Linear Programming- Economic Applications	23
<ul style="list-style-type: none"> • Difference Equations: Solution of a Difference Equation and Simple Economic Applications. • Linear Programming: Definition, Assumptions, Formulation and Solution of LPP (Feasible, Basic and Optimal Solutions) by graphical and simplex method. Dual Problem: Solution of Primal and Dual Problems by Simplex Method and their Interpretation. 	
Unit III: Probability and Statistical Inference- Economic Applications	23

<ul style="list-style-type: none"> • Probability Distributions: Properties (including derivation of mean and variance) and Applications of Binominal, Poisson and Normal Distributions. • Statistical Inferences: Concepts of parameter, statistic and standard error (including its utility). • Sampling Distribution of a Statistic, Distribution of Sample Mean, Properties of an Ideal Estimator; Unbiasedness, Consistency, Efficiency and Minimum Variance. • Interval Estimation and Confidence Interval for mean, single proportion and difference of proportions. 	
Unit IV: Hypothesis Test Theory	22
<ul style="list-style-type: none"> • Tests of Significance: Large and Small Sample Tests based on Normal and t Distribution, Test of Significance of Mean, Difference between means, Simple Correlation Coefficient and Simple Regression Coefficient, test based on F and Z Distribution (Fisher's Z Statistics). • Chi-Square Tests: Conditions for Chi-Square Test; Application of χ^2 Distribution – Test for Goodness of Fit, Independence and Specified Value of the Variance. • Analysis of Variance: Applications with regard to one way and two way classifications. 	

Course Learning Outcomes: By the end of the course student will be able to critically assess current and future metrics, research technologies, and research data output related to the subject.

- Establish their understanding economic application of integration and differential equations
- Demonstrate the economic applications of difference equations and LPP
- Analyze the probability theory and statistical inference for application purpose
- Develop the comprehension of different types of tests of significance for hypothesis testing.

Text / Reference Books:

Author	Title	Publisher	Year of Publication	ISBN	Pages
J.Devore	Probability and statistics for engineers	Cengage Learning	2012	978-8131518397	768
R. Larsen and M. Marx	An introduction to mathematical statistics and its applications.	Prentice Hall.	2011	978-0134871745	640
I. Miller and M. Miller	J. Freund's mathematical statistics with applications	VK Global Publications Private Limited	2017	978-9332519053	476

CourseTitle: Economics of Growth and
Course Contents/syllabus:

L	T	P/S	SW/F W	Total Credit Units
5	0	0	0	5

Development

	Lecture hours
Unit 1: Economic Growth & Development	23

<ul style="list-style-type: none"> • Meaning, measurement, sources of economic growth and the concept of sustainable development • Factors in economic development: Natural Resources, Population, Capital, Human resource development and Infrastructure • Human Development Index (HDI) and Physical Quality Life Index (PQLI) • Economic Development and Structural change: theories of Kuznet and Chenery • Perpetuation of underdevelopment: Vicious circle of poverty, circular causation and structural view of underdevelopment 	
Unit 2 : Theories of Growth and Development	22
<ul style="list-style-type: none"> • Theories of Growth: Harrod-Domar, Solow, Meade, Joan Robinson and Kaldor • Theories of Development: Classical, Marx and Schumpeter • Approaches to development: Social Dualism, Technological Dualism and Financial Dualism • Models of Dualistic Growth: Lewis, Ranis and Fei and Jorgenson • Rostow stages of economic growth 	
Unit 3 : Growth Model and Strategies	23
<ul style="list-style-type: none"> • Development Strategies: Big Push, Balanced Growth, Unbalanced Growth and Critical Minimum Efforts • Migration and Development: Todaro model of growth • Endogenous Growth Models: Lucas and Romar • Dependency theory of Development: Paul Baran, Frank and Samir Amin • Theory of Convergence and Divergence: Barro and Sala-i-Martin • Technical Progress: Hicks, Harrod and Learning by doing 	
Unit 4 : Globalization & Development	22
<ul style="list-style-type: none"> • Agriculture and development • Trade and Development: International trade as an engine of economic growth, Two-gap theory, import substitution vs export promotion, Prebisch, Singer and Myrdal views • Capital Formation: Concept, Importance and the role of capital formation in Developing countries • Foreign Investment and Foreign Aid in economic development 	

Course Learning Outcomes:

This course introduces students to the basics of development economics, with indepth discussions of the concepts of development, growth, strategies,as well as the highlighting the importance of globalization..

- Clear understanding of the concept of growth and development.
- Evaluate various theories for the growth and development of a nation.
- Critically analyze the various growth models and strategies for the development purposes.
- Highlight the importance of globalization in the process of development.

Text / Reference Books:

Author	Title	Publisher	Year of Publication	ISBN	Pages
Todaro, M.P. & Smith, S.C.	Economic Development	Pearson Education	2017	978-9332585539	896
Sen, A	Development as freedom	Oxford University Press	2000	9780385720274	384
Deaton, A	The great escape: Health, wealth and the origins of	Princeton University Press	2013	9780385720274	376

	inequality				
Banerjee, A., Benabou, R., Mookerjee, D. (eds.)	Understanding poverty	Oxford University Press.	2006	9780195305203	496

Course Title: Monetary Economics and Banking
Course Contents/syllabus:

L	T	P/S	SW/F W	Total Credit Units
4	0	0	0	4

System

	Lecture Hours
Unit I: Money & Supply of Money	18
<ul style="list-style-type: none"> • Money: Concept, Evolution and Functions • Types of Money • Role of Money in different economic Systems • Supply of Money: Concept and Component of Money Supply • Approaches to measure Money Supply: Classical approach, Monetarist Approach, Gurley and Shaw Approach and Radcliffe Committee Approach • Velocity of Circulation of Money and factors affecting velocity of circulation of money • Theory of Money Supply • Mechanism of Money Supply in India 	

Unit II: Demand for Money & Interest rates	18
<ul style="list-style-type: none"> • Theories of demand for Money: Classical theory, Keynesian theory, Portfolio Balance Approach, The Risk Aversion theory of Liquidity Preference and Friedman's approach • Rate of Interest: Determination, theories of the term structure of interest rates: Expectation theory, Liquidity Premium theory, Market Segmented theory and Preferred Habitat theory • Nature and Structure of interest rates in India 	
Unit III: Financial Markets & Banking System	18
<ul style="list-style-type: none"> • Money and Capital Market in India: concepts, functions, constituents and defects • Measures to reform the Indian money and capital market in india: suggestions and improvements • Commercial Banks in India: functions, progress, credit creation and its failures • Co-operative banks and Regional Rural Banks in India • Nationalization of banks in India: Objectives and achievements. 	
Unit IV: Central Bank & the Monetary Policy	18
<ul style="list-style-type: none"> • Central Bank: definition, functions and role of Central Bank in less developed economies • RBI: Organizational set-up, departments, objectives, functions, achievements and failure; recent policies and banking sector reforms. • Monetary Policy: objectives, targets and indicators • International Monetary System: Working and lending operations of IMF, IBRD, IFC and Asian Development Banks 	

Course Learning Outcomes: By the end of the course student will be able to critically assess current and future metrics, research technologies, and research data output related to the subject.

- Develop an understanding of broad concept of money and theories of money supply.
- Analyze the concept of demand for money and interest rates in India.

- Enable students to understand the functions of the financial markets & banking system in India.
- Evaluate the role of banking system, central bank and monetary policy.

Text / Reference Books:

Author	Title	Publisher	Year of Publication	ISBN	Pages
Bhole, L, Mahukud, J.	Financial Institutions And Markets	Tata McGraw-Hill.	2017	978-9352605415	
Fabozzi, F., Modigliani, F., Jones, F., Ferri, M.	Foundations Of Financial Markets And Institutions	Pearson Education	2014	978-9332536784	704
Khan, M	Indian Financial System	Tata McGraw-Hill	2019	978-9353167301	1008
Mishkin, F., Eakins, S.	Financial Markets And Institutions	Pearson Education	2018	978-1292215006	696
TR Jain, V K Ohri	Money and Banking	VK Global Publications Pvt Ltd	2020	978-9350586938	
N K Sinha	Money, Banking & Finance	BSC Publishing	2018	9788190458948	538
Michael Brandl	Money, Banking, Financial Markets and Institutions	Cengage Learning	2019	978-9353502232	

		India Pvt. Ltd.			
Dr. D.D.Chaturvedi / Dr. Anand Mital	Money and Banking	Kitab Mahal Publishers	2018	978-8122506358	292
R. Glenn Hubbard, Anthony P O'Brien	Money, Banking and Financial System	Pearson Education	2019	978-9353069858	656

L	T	P/S	SW/F W	Total Credit Units
4	0	0	0	4

Course Title: History of Economic Thought
Course Contents/syllabus:

	Lecture Hours
Unit I: Evolution of Ancient, Medieval and Modern Economic Thought	18
<ul style="list-style-type: none"> • Ancient Economic Thought: Hebrew thought, Greek Thought: Plato & Aristotle and Roman Thought, Ancient Indian economic thought-Arthasastra • Medieval Economic Thought: : Ideas of Saint Thomas and Nicholas • Beginning of Modern Economic Thought: Mercantilism: Its origin and content - economic ideas of Petty, Cantillon, Locke and Hume. Physiocracy: Natural order, primacy of agriculture, social classes and circulation of wealth. 	
Unit II: Classical Economic Thought	18

<ul style="list-style-type: none"> The Classical System: Adam Smith- Division of Labour, theory of value and distribution, economic growth and international trade; David Ricardo- Theory of value and distribution, foreign trade, economic development and theory of rent; T.R. Malthus- Theory of Population, theory of gluts; J.S. Mill- Laissez faire and protection; J.B. Say- Law of Markets; Karl Marx: dynamics of social change, theory of value and surplus value, theory of capitalist competition. 	
Unit III: Marginalism and Neo-Classical Economic Thought	18
<ul style="list-style-type: none"> The Marginalists and Neo-Classicism: Precursors to marginalism- Gossen, Jevons, Menger and Walras; The Austrian School- Wiser and Bohm-Bawerk: Theory of capital and distribution; K. Wicksell and the Swedish School; Wicksteed on laws of distribution; The American Contribution: Clark, Walker and Schumpeter on the theory of growth and business cycles; Marshallian Economics: Price determination and elasticities, consumer surplus, costs and economies, rent and profit. 	
Unit IV: Keynesian and Post Keynesian Economic Thought	18
<ul style="list-style-type: none"> Keynes and Post Keynesian developments: Marginal efficiency of capital and investment, theory of wages and interest, underemployment equilibrium and the role of fiscal policy, theory of multiplier and business cycles; Post Keynesian developments in consumption function, quantity theory of money, inflation, business cycles and economic growth. Keynesian Economics: Keynes on Neoclassical ideology of Self-Adjusting Markets; Theoretical Setting of Keynes's Analysis; Analysis of Great Depression, Ideological Foundations of Keynes's Ideas. Kaleckian Version: Political Aspects of Full Employment; Distribution of Income. 	

Course Learning Outcomes: By the end of the course student will be able to critically assess current and future metrics, research technologies, and research data output related to the subject.

- Establish their understanding of evolutions ancient, medieval and modern economic thought.
- Demonstrate the theoretical development of classical thought by Smith, Ricardo, Malthus, Mill etc.
- Analyze the transitioning of classical thought to neo-classical thought
- Appraise the development of Keynesian and post Keynesian thought.

Text / Reference Books:

Author	Title	Publisher	Year of Publication	ISBN	Pages
Smith, A.,	The Causes and Nature of the Wealth of Nations	RHUS, Annotated Edition	2003	978-9387779464	1144
Sen, A	Development as Freedom	Oxford University Press	2000	9780195655261	366
Gide, C., & Rist, C.	Early Histories of Economic Thought, 1824-1914: History of economic doctrines (Vol. 8)	Taylor & Francis US	2000	978-1295710386	702
Schumpeter, J. A	History of Economic Analysis	Routledge.	2006	978-0195105599	1260
Screpanti, E., & Zamagni, S.	An Outline of the History of Economic Thought	Oxford University Press	2005	978-0199279142	584

MA (Economics) Honours- 2 years (3rd Semester)

S.No	Course Code	Course Title	Course Type	Credits			Credit Units
				L	T	P	
1	ECN	Basic Econometrics	Core Course	5	0	0	5
2	ECN	Economics of Planning	Core Course	5	0	0	5
3	ECN	Research Methods for Economists	Core Course	5	0	0	5
4	ECN	Political Economy of Development	Discipline Specific Elective Course	4	0	0	4
5	ECN	Economics of Environment and Demography	Discipline Specific Elective Course	4	0	0	4
6	ECN	Financial Institutions and Markets	Discipline Specific Elective Course	4	0	0	4
7		Entrepreneurship and New venture creation	Skill Enhancement Course	3	0	0	3

Note:	2 Discipline Specific Electives to be chosen from 3 being offered						
		Total Credits		26			

Course Title: **Basic Econometrics**

L	T	P/S	SW/F W	Total Credit Units
5	0	0	0	5

Course Contents/syllabus:

	Lecture Hours
Unit I: Linear Regression Model: Problem of estimation	22
<ul style="list-style-type: none"> • Meaning, Nature and Scope of Econometrics; Concepts of Population Regression Function and Sample Regression Function; Simple (two variable) • Linear Regression Model: Assumptions, Estimation, Properties (Gauss-Markov Theorem (BLUE) and Consistency); • Interval estimation and Testing of hypothesis of individual coefficients (t-statistics); overall significance of the model (F-statistics), Coefficient of Determination and Goodness of fit through R-square and Adjusted R-square, Predictions 	
Unit II: Multiple Regression Models	22
<ul style="list-style-type: none"> • Multiple (K-variable) Linear Regression Model: Assumptions, Estimation, Properties (Gauss-Markov Theorem (BLUE) and Consistency); Extension of regression models: regression through origin, Scaling and units of measurement • Functional forms in regression models: log-linear, and semi-log models; Choice of functional forms (MDW test); • Introduction to Non-Linear Regression Models, • Dummy variable Models - Dummy variable trap, ANOVA and ANCOVA, Applications including seasonal analysis, and checking for structural stability 	
Unit III: Econometric Problems & Specification Errors	23

<ul style="list-style-type: none"> • Multicollinearity: Meaning, nature, causes, consequences and remedial measures (Ridge Regression); Heteroscedasticity: Meaning, nature, causes, consequences and remedial measures (Methods of weighted least square and generalised least square regression); Autocorrelation: Meaning, nature, causes, consequences and remedial measures; • Econometric Modelling: Model Specification and Diagnostic Testing. Tests of Specification and misspecification • Omission of a relevant variable; • Inclusion of irrelevant variable; • Errors of measurement in dependent and independent variables. • Model Selection Criteria. 	
Unit IV: Basics of Time Series and Dynamics Models	23
<ul style="list-style-type: none"> • Time series basic concepts: Stochastic Process (stationary and non-stationary process), Unit root process, Integrated Stochastic Process; Test of Stationarity: Graphical Analysis, and Unit root tests (Dickey-Fuller (DF) test, Augmented Dickey-Fuller (ADF) test, Phillips-Perron (PP) tests, Difference stationary and trend stationary process; Seasonality analysis; • Dynamic Econometrics Models: Autoregressive and Distributed lag models; Simultaneous Equation models: Structural and reduced form equations, Identification (Rank and Order conditions) and Estimation problems; Methods of estimation: ILS and 2SLS methods. • Nature of SEM's, Simultaneous Equation Bias, Identifications Problem. • Rank and Order Conditions. Testing Identification of Economic Models. • Estimation of SEM'S : ILS, 2SLS, 3SLS .Method of Instrumental Variables 	

Course Learning Outcomes: By the end of the course student will be able to

- Comprehend the nature and scope of econometrics and development of regression models and the estimation methods.
- Identify the problems which may arise in the error term and the corresponding remedial measures for the same.
- Analyze econometric models to explain certain economic relationships and their implementation for drawing inferences for the same.
- Develop among the judgement of the model specification for econometric estimation.

Text / Reference Books:

Author	Title	Publisher	Year of Publication	ISBN	Pages
D. Gujarati	Basic Econometrics	New York: McGraw Hill	2015	978-0070597938	1002
G.M.K. Madnani	Introduction to Econometrics: Principles and Applications	Oxford and IBH Publishing Co. Pvt Ltd	2012	9788120417199	635
G. Maddala	Introduction to Econometrics	New York: MacMillan	2017	9780023745454	464

L	T	P/S	SW/F W	Total Credit Units
5	0	0	0	5

Course Title: Economics of Planning

Course Contents/syllabus:

	Lecture hours
Unit 1: Role & Importance of Planning	20
<ul style="list-style-type: none"> • Meaning, Objectives and Importance • Types of Planning • Requisites for successful planning • Planning in different economic systems • Role of planning in a developing countries like India 	

Unit 2 : Choice of Technique & Investment Criteria	24
<ul style="list-style-type: none"> • Choice of technique: Sen-Dobb Thesis, Labour-intensive vs Capital-intensive • Technical Progress: Hicks, Harrod and Learning by doing • Choice of technique in underdeveloped countries • International transfer of technology: channels, importance and problems in transfer of technology • Investment Criteria: Need and types of investment criteria: Social Marginal Productivity criteria, Capital Turnover criteria, Re-investment criteria, Time-series criteria and Balance of Payments criteria 	
Unit 3 : Project Evaluation	24
<ul style="list-style-type: none"> • Meaning, Origin and Rationale • Project planning and commercial profitability criteria • Cost-Benefit analysis: meaning and technique • Shadow Prices: Concept, importance and the methods to compute shadow prices 	
Unit 4 :Indian Planning	22
<ul style="list-style-type: none"> • Evaluation of Indian planning after Independence : Strategies for Indian development plans: the initial phase (Mahalanobis Strategy), its failure and departures from Mahalanobis strategy of development • The New Development Strategy • Resource Allocation: Investment Pattern in Indian Plans • Assessment of Indian Planning: Targets and Achievements 	

Course Learning Outcomes:At the end of the course, a student will be able to understand how the role of economic planning in shaping and improving economic performance of a nation.

- Clear understanding of the role and importance of planning for a country.
- Analyze the impact of different investment criteria for the growth of an economy.
- Demonstrate the role and importance of Project planning and cost-benefit analysis.
- Critically assess the strategies for the planned economic development of India

Text / Reference Books:

Author	Title	Publisher	Year of	ISBN	Pages
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			Publication		
Todaro, M.P. & Smith, S.C.	Economic Development	Pearson Education	2017	978-9332585539	896
Puri, V.K. & Mishra, S.K.	Indian Economy	Himalaya Publishing House	2018	978-9352991730	769
Datt, R. & Sundharam	Indian Economy	S. Chand Publishing	2021	978-9352531295	965

L	T	P/S	SW/F W	Total Credit Units
5	0	0	0	5

Course Title: Research Methods for Economists

Course Contents/syllabus:

	Lecture Hours
Unit I: Introduction to Research Methodology	22
<ul style="list-style-type: none"> • Meaning and Objectives of Research, Types of Research and its Approaches, Techniques of Defining the Research Problem. • Reviewing the Literature, Use of Mendeley and MS-Word in Citing the Literature, Various Formats of Writing the reference/bibliography. • Research Design: Meaning, need and Types 	
Unit II: Data Collection Techniques	22

<ul style="list-style-type: none"> • Questionnaire Method: Types, Format and Pre-Testing of Questionnaires. Techniques for Increasing Response of Respondents. • Interview Method: Types, Process and Rules of Interviews. Factors affecting interview. Interviewer's Bias. Selection and Training of Interviewers. • Observation Method: Types of Observations. 	
Unit III: Measurement and Scaling Techniques	23
<ul style="list-style-type: none"> • Measurement Scales: Types of Measurement Scales, Types and Components of Measurement. • Accuracy of Measurement and Reliability Testing. Increasing Reliability. • Sampling Techniques: Simple Random Sampling; PPS Sampling; Stratified Random Sampling; Multistage Sampling (Applications only). 	
Unit IV: Testing of Hypotheses	23
<ul style="list-style-type: none"> • Parametric Tests: Applications of t, z, and F-test Statistics. • Non-Parametric Tests: Application of χ^2, McNemar, Kolmogorov-Smirnov, Sign, Wilcoxon Signed, Mann Whitney, Rank-Sum, Kruskal-Wallis, Kendall's Coefficient Tests. 	

Course Learning Outcomes: By the end of the course student will be able to

- Comprehend the meaning, nature and scope of research methodology
- Acquire knowledge and understanding of different data collection techniques
- Having knowledge of different measurement and scaling techniques
- Developing knowledge about parametric and non parametric tests for hypothesis testing.

Text / Reference Books:

Author	Title	Publisher	Year of publication	ISBN	Pages
R. Kothari	Research Methodology: Methods and Conditions	Tata New Age international	2019	978-9386649225	480

		Publishers, India			
Deepak Chawla and Neena Sondhi	Research Methodology: Concepts and Cases.	Vikas Publishing, India	2016	978-9325982390	680
D. Cooper	Business Research Methods	McGraw-Hill Education	2018	978-9353161194	890

L	T	P/S	SW/F W	Total Credit Units
5	0	0	0	5

Course Title: Political Economy of Development

Course Contents/syllabus:

	Lecture hours
Unit 1: Introduction to Political Economy	18
<ul style="list-style-type: none"> • Concept: Scientific Social World outlook • Idealism and materialism • Metaphysics and dialectics; Law of dialectics, Category of philosophy and theory of cognition • Dialectical and Historical materialism: its theory and methods, dialectical materialism • Mode of Production and social superstructure: Factors constituting and forces governing mode of production, Social superstructure and its elements • Historical Social Formations • Asiatic mode of production 	
Unit 2: Nation, Security and Geo Politics	18
<ul style="list-style-type: none"> • The Concepts of Nation: State and Nation – State: Theories and Elements of State • National Power and its Components 	

<ul style="list-style-type: none"> • Key Concepts of Security : National Security, Regional Security, Comprehensive Security, Common Security, Equal Security • National Security Objectives : Core Values, National Interests. • Challenges to Security : Individual, Sub – National; National, Regional and International Levels. • Concepts of Geopolitics and Geo – Strategy 	
Unit 3 : Marxian Concept and Imperialism	18
<ul style="list-style-type: none"> • Marxian Political Economy and Analysis of Capitalism • Development of Capitalism in agriculture • Nature and process of planning in Capitalism • Market mechanism and methods of accumulation • Primitive socialist and capitalist methods • Concept of imperialism • Emergence of monopoly capitalism • Role of banks in monopoly capitalism • Imperialism and the state 	
Unit 4 : Transition to Socialism	18
<ul style="list-style-type: none"> • Concept of neo-colonialism, forces against neo-colonialism and imperialism • Transition period • Problem and policies during socialism • Role of Planning, market mechanism and the distribution of income & wages • The changing dynamics of the organisation of production, markets and labour process • Strategies for third world development 	

Course Learning Outcomes:At the end of this course, the students will be able to

- To develop an understanding to a broader concept of political economy.

- Highlight the role and importance of Marxian concept in political economy.
- Provides them skills to think and analyse in an interdisciplinary manner and the issues related to imperialism.
- Enables the students to understand the complexities of the transition to socialism.

Text / Reference Books:

Author	Title	Publisher	Year of Publication	ISBN	Pages
Baran, P	The political economy of growth	Pelican	1973	9780140214659	589
Habib, I	Capitalism in history	Social Scientist	1995	-	23, 15-31
Schumpeter, J	Capitalism, socialism and democracy	Routledge	1976	0415107628	431

L	T	P/S	SW/F W	Total Credit Units
4	0	0	0	4

Course Title: Economics of Environment & Demography

Course Contents/syllabus:

	Lecture hours
Unit 1: Demography and Development	18
• Meaning and scope of Demography	

<ul style="list-style-type: none"> • Components of Population growth and their interdependencies • Theories of Population: Malthusian theory of population and Optimum theory of population • Theory of Demographic transition • Population and development 	
Unit 2 : Concepts of Demography	18
<ul style="list-style-type: none"> • Fertility: importance of the study of fertility, Total fertility rate, Gross reproduction rate and net reproduction rate; factors affecting fertility • Nuptiality: concepts and analysis of marital status; trends in the age of marriage • Mortality: trends of mortality in India; foetal and infant mortality; factors for dealing in mortality • Methods of Population Projections 	
Unit 3: Migration, Population & Environment	18
<ul style="list-style-type: none"> • Urbanization and development process • Population, economy and environment linkage • Changing characteristics of population in India • Population in border areas and border security. • Migration: concept, importance and factors affecting migration • Growth and distribution of rural-urban population in developed and developing countries • Environmental Issues : Global Warming, Desertification, Acid Rains, Industrial Pollution, Deforestation. 	
Unit 4: Government Policies	18
<ul style="list-style-type: none"> • Environment: necessity as a public good, causes of environment degradation and the policies for controlling pollution • Poverty and environment degradation: microplanning for environment preservation: water-sheds, joint forest management and self-help groups • Role of state in environment preservation: review of environmental legislation in India • Evolution of Population policies in India; New Population Policy 	

Course Learning Outcomes: This course teaches the student various aspects of the Indian economy, as well as important themes relating to the environment and sustainable development. It also introduces them to some issues of globalisation.

- Clear understanding of the relation between population and process of development.
- Examine a complete picture of various concepts of demography and the methods of population projections.
- Analyze the linkage between the population growth and environment degradation.

- Critically appraise the role of government in preserving environment.

Text / Reference Books:

Author	Title	Publisher	Year of Publication	ISBN	Pages
Sen, A	Development as freedom	Oxford University Press	2000	9780385720274	384
Bogue, D.J.	Principles of Demography	John Wiley & Sons	1969	978-0471086208	930
Banerjee, A., Benabou, R., Mookerjee, D. (eds.)	Understanding poverty	Oxford University Press.	2006	9780195305203	496
Puri, V.K. & Mishra, S.K.	Indian Economy	Himalaya Publishing House	2018	978-9352991730	769
Datt, R. & Sundharam	Indian Economy	S. Chand Publishing	2021	978-9352531295	965

Kumari, N.	Demography Principles	ABD Publishers	2022	978-8183768801	304
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Course Title: Financial Institutions & Markets
Course content and syllabus

L	T	P/S	SW/F W	Total Credit Units
4	0	0	0	4

	Teaching Hours
Unit-I Introduction to Financial Institutions & Markets	18
<ul style="list-style-type: none"> • Meaning and Evolution of Financial System in India • Financial System and Economic Development • Central Banking -The Reserve Bank of India • Stock Exchanges in India: , Functions and Significance and its Working &The Securities and Exchange Board of India • FinancialIntermediaries-CommercialBanks,InsuranceCompanies,MutualFundsand Development Banks • Development Banking Institutions: Viz. IDBI, IFCI ,ICICI, RBI, NABARD, • SIDBI ,and EXIM Bank-Objectives, Operations, Schemes of Financing, 	
Unit-II-Introduction to Financial Services; Merchant Banking	18
<ul style="list-style-type: none"> • Financial Services – Meaning, nature, scope, significance and types; Fund Based &Fee Based Financial Services • Merchant banking services including new issue management- Prospectus of Public Offering, Book Building, IPO and FPO, Green shoe Option, Underwriter, Registrar and Share Transfer Agent, Stock broking, Depositories, Custodial services and short selling and securities lending and borrowing services • Investments Policy, Portfolio Management and Resource Mobilization Efforts 	
UNIT III: Venture Capital; Mutual Funds; Credit Rating	18
<ul style="list-style-type: none"> • Features and Types of Venture Capital, Various Stages of Venture Capital Financing, Factors affecting investment decision, Investment nurturing, Venture capital Exit strategies, Venture Capital Firms in India 	

<ul style="list-style-type: none"> • Mutual Funds—meaning, structure and types, NAV, Mutual Funds in India • Credit Rating - Meaning, types, Need for credit rating, Factors affecting credit rating, Rating process and methodology, Credit Rating Agencies in India, Securitization of Debt, SARFAESI Act 2002- Background- Purpose of the Act-Main Provisions 	
Unit-IV-Leasing and Factoring; Mergers Acquisitions	18
<ul style="list-style-type: none"> • Leasing- Essentials, Operating and Financial Lease, Sale and Leaseback- Other classifications, Leasing Vs Hire purchase • Factoring-Parties involved- Process of Factoring, Functions of a Factor- Different Forms of Factoring Services, Factoring and Forfeiting and Bill discounting—meaning, mechanism & comparison • Mergers and Acquisitions - Expansion of business firms- Internal and external expansion; Forms of Combinations- merger, acquisition and take over; Reasons for merger; Types of mergers; Legal aspects involved & Valuation methods; Forms of financing mergers; Types of takeover-Defense strategies against hostile takeovers; Mergers in India • Recent trends in financial services-Shadow Banking, Angel Funds, Hedge funds 	

Course Learning Outcomes: By the end of the course student will be able to critically assess current and future metrics, research technologies, and research data output related to the subject.

- Explain basic concepts and different types of financial institutions & markets.
- Describe the structure and functioning of financial services and merchant banking.
- Demonstrate their knowledge related to regulatory framework for venture capital and mutual funds.
- Critically analyze the role and importance of mergers and acquisitions.

Text/Reference Books:

Author	Title	Publisher	Year of	ISBN	Pages

			publicati on		
Machiraju	Indian Financial System	Vikas Publishing House	2010	978-8125939818	474
Varshney P.N.&Mittal D.K	Indian Financial System	Sultan Chand & Sons	2015	978-8180548246	-
Sasidharan	Financial Services and System	Tata McGraw Hill	2008	9780070668058	700
M.Y.Khan,	Financial Services	Tata McGraw-Hill	2009	9780070681996	-
Nalini Prava Tripathy	Financial Services	PHI Learning	2007	978-8120332454	348
Bhole,L.M	Financial Markets and Institutions	Tata McGraw Hill	2009	9780070080485	999

L	T	P/S	SW/F W	Total Credit Units
3	0	0	0	3

Course Title: Entrepreneurship and New Venture Creatio

Course Code:

Credit Units: 3

Course Level: PG

Course Objectives: This course helps students develop the skills and knowledge that will enable them to be effective entrepreneurs and/or members of entrepreneurial teams.

Prerequisites: Basic knowledge of skills required to be effective entrepreneurs.

Course Content/ Syllabus

	Weightage (%)	Teaching Hours
Unit-1 Introduction to Entrepreneurship & Entrepreneurial Ecosystem	25	14
Concept of entrepreneurship, entrepreneur's role, task and personality, theoretical perspective of entrepreneurship, entrepreneurial intention and orientation, types of entrepreneurship, Understanding the entrepreneurial perspective in individuals, Entrepreneurial Traits, Entrepreneurial Skills, developing creativity and understanding innovation, Impediments to creativity, Importance of entrepreneurship		
Unit-2- Evaluating Entrepreneurial Options and Understanding Start up Financial Requirements	25	13
Understanding the idea and an opportunity. The opportunity creating, shaping, recognizing and seizing. Screening venture opportunities, gathering information and analyzing. Evaluating venture opportunities and develop startup strategy. Feasibility analysis and risk taking ability-An overview of startup finance and sources of finance. Understanding the business model and financial projections, how to forecast expenses and revenue. Gathering the resources developing		

entrepreneurial marketing and operational plan. Government Schemes for new ventures: Start Up India, Stand Up India, Make in India.		
Unit-3- Launching and Managing New Venture -Developing Team and Business Plan	25	14
The importance of team, Team Formation and Team Building. An Introduction to Business Plan, Components of Business Plan: Financial Plan, Organizational Plan, and Marketing Plan; Types of Business Plans, Examining sample business plans and writing business plan. Understanding investor/lender’s perspective and presenting business plan. Valuation of business plan and the elevator pitch. Business Canvas Model, Entrepreneurial challenges As an individual and As an entrepreneur.		
Unit-4- Emerging trends, Technologies and Practices in Startups -Legal Aspects of Business	25	13
Legal form of new venture. Legal issues and other formalities related to venture. Technology-enabled trends that will help shape businesses and the economy, Technical intelligence in business- understanding technology threats and opportunities, Technology Business Incubators, emergence and growth of new technology–based companies		

Course Learning Outcomes: At the end of this course, the students will be able to identify motivations of an entrepreneur for starting the business, demonstrate entrepreneurial skill-set, identify sources of financing, Map the technological trends for new start-ups and Develop business plan

- Develop the abilities needed to formulate a business plan for an original venture concept.
- Apply knowledge and skills from live case studies of successful entrepreneurs and business experience.
- Enhance the ability to conduct sectoral study for a new venture creation/Start-up
- Evaluate and develop potential business opportunities and Legal aspects of starting new venture

List of Professional Skill Development Activities (PSDA):

1. Study of an Entrepreneur to understand the process of creating an entrepreneurial venture
2. Sectoral study for a new venture creation/Start-up
3. Develop a Business Plan after exploring business opportunities

Text / Reference Books:

Author	Title	Publisher	Year of publication	ISBN	Pages
Justin G. Longenecker, J. William Petty, Leslie E. Palich, and Frank Hoy	Small Business Management: Launching & Growing Entrepreneurial Ventures (20 th Edition)	Cengage	2023	978-0-3577-1880-3	712
Mike Kennard	Innovation and Entrepreneurship	Routledge	2021	978-0-367-51057-2	114
Debasish Biswas and Chanchal Dey	Entrepreneurship Development in India	Routledge	2021	978-0-367-76219-3	117
Robert D. Hisrich, Micheal P. Peters, Dean A. Shepherd, Sabyasachi Sinha	Entrepreneurship (11 th Edition)	McGraw Hill	2020	978-9390113309	696
Donald F. Kuratko and Jeffrey S. Hornsby	New Venture Management: The Entrepreneur's Roadmap for Development, Management, and Growth (3 rd Edition)	Routledge	2020	978-0367466725	356
Bruce R. Barringer and R. Duane Ireland	Entrepreneurship: Successfully Launching New Ventures (6 th Edition)	Pearson	2019	978-1-292-25533-0	617
Norman M. Scarborough and Jeffrey R. Cornwall	Essentials of Entrepreneurship and Small Business Management (9 th Edition)	Pearson	2019	978-1-292-26602-2	827

Mary Jane Byrd and Leon Megginson	Small Business Management: An Entrepreneur's Guidebook (8 th Edition)	McGraw Hill	2017	978-1259538988	496
Robert D. Hisrich and Veland Ramadani	Effective Entrepreneurial Management: Strategy, Planning, Risk Management, and Organization	Springer	2017	978-3-319-50465-0	230
Stephen Spinelli, Jr. and Robert J. Adams, Jr.	New Venture Creation: Entrepreneurship for the 21st Century (10 th Edition)	McGraw-Hill Education	2016	978-0-07-786248-8	484
David H. Holt	Entrepreneurship: New Venture Creation	Pearson	2016	978-9332568730	584

Journals:

- Harvard Business Review
- International Journal of Entrepreneurship and Innovation, IP Publishing
- Journal of Business Venturing - Elsevier
- Journal of Entrepreneurship in Emerging Markets, Emerald
- Technology, Innovation, Entrepreneurship and Competitive Strategy, Emerald
- Entrepreneurship Theory and Practice, Sage
- Technovation, Elsevier
- Journal of Technology Transfer, Springer
- Technological Forecasting and Social Change, Elsevier

Any other Study Material:

- Culture and International Entrepreneurship, Samit M L, Florida Atlantic University, 2006
- Why America Is Losing the Race for Entrepreneurial Talent, Knowledge @ Wharton, November 2012
- Funding Guide for Entrepreneurs, London Chamber of Commerce and Industry, 2010.

MA (Economics) Honours- 2 years (4th Semester)

S.No	Course Code	Course Title	Course Type	Credits			Credit Units
				L	T	P	
1	ECN	Advanced Econometrics	Core Course	5	0	0	5
2	ECN	Indian Economy: Development and Strategy	Core Course	5	0	0	5
3	ECN	Public Economics	Core Course	5	0	0	5

4	ECN	Economics of Health and Education	Discipline Specific Elective Course	4	0	0	4
5	ECN	Rural Economics	Discipline Specific Elective Course	4	0	0	4
6	ECN	Dissertation	Non Teaching Credit Course	4	0	0	4
7		Computer Applications	Skill Enhancement Course	2	0	0	2
Note:	2 Discipline Specific Electives to be chosen from 3 being offered						
		Total Credits		25			

Course Title: Advanced Econometrics

L	T	P/S	SW/F W	Total Credit Units
5	0	0	0	5

Course Contents/syllabus:

	Lecture Hours
Unit I: Time Series Econometric Modelling	22
<ul style="list-style-type: none"> Approaches to time Series Forecasting; Univariate Time series modelling: AR, MA, ARMA and ARIMA models; Box-Jenkin Methodology; Multi-variate Time series modelling: OLS, Spurious Regression, Co-integration, Causality analysis (Granger and Sim); Granger representation theorem; Vector Auto-regression (VAR) and Vector Error Correction Models (VECM); 	

<ul style="list-style-type: none"> • Volatility modelling: ARCH and GARCH models 	
Unit II: Dummy variables and Qualitative Response Regression Models	22
<ul style="list-style-type: none"> • Limited Dependent variable Models - Nature of qualitative response Models; • Linear Probability Model and its applications; • Bivariate and Multinomial Logit and Probit Models: Assumptions, Estimation (grouped and un-grouped models), interpretations and applications; • Tobit model: Assumptions, Estimation, interpretations and applications; • Conditional logit and probit models; Instrumental variable logit and probit models and their applications. • Introduction to quintile regression. 	
Unit III: Panel Data Models	23
<ul style="list-style-type: none"> • Introduction: Advantages and Issues Involved in Utilizing Panel Data. • Basics of panel data analysis and Panel Unit root tests; • Estimation of panel data regression models: Pooled regression method, fixed effect Approach, and Random effect models; • Dynamic Panel data modelling; Panel co-integration, Panel Vector Autoregression (VAR) and Panel Vector Error Correction Models (VECM), Fully Modified Ordinary Least Square (FMOLS) regression, Dynamic OLS models; • Limited dependent variable models using Panel data. 	
Unit IV: Applications	23
<ul style="list-style-type: none"> • Applications – Introduction to E-views, STATA and R; • Time series econometric modelling using E-views; • Estimation of Limited Dependent Variable Models using STATA; • Panel Data Modelling using E-views, STATA and R; 	

Course Learning Outcomes: By the end of the course student will be able to

- Initiate effective use of econometrics for economic problems through regression analysis.
- Have theoretical and practical understanding of time series data
- Have theoretical and practical understanding of panel data
- Develop analytical abilities among students for data handling and econometric modelling.

Text / Reference Books:

Author	Title	Publisher	Year of Publication	ISBN	Pages
D. Gujarati	Basic Econometrics	New York: McGraw Hill	2015	978-0070597938	1002
G.M.K. Madnani	Introduction to Econometrics: Principles and Applications	Oxford and IBH Publishing Co. Pvt Ltd	2012	9788120417199	635
G. Maddala	Introduction to Econometrics	New York: MacMillan	2017	9780023745454	464

Course Title: Indian Economy: Development and Course Contents/syllabus:

L	T	P/S	SW/F W	Total Credit Units
5	0	0	0	5

Strategy

	Lecture hours
Unit 1: State of Economy	23
<ul style="list-style-type: none"> • Indian Economy (1857-1947): Evolution of Land Tenure System, Commercialization of agriculture, Demographic development and Rural Indebtedness • Economic consequences of the British Rule • Need for planned economic development • Basic strategies for development of Indian Economy under Planning • Changes in the strategies of Indian Planning: Role of NITI Aayog • Role of Public and Private sector in India • Saving and Capital Formation in India 	
Unit 2 : Sectoral Growth	22
<ul style="list-style-type: none"> • Agriculture: Role, Importance and Production structure of the Indian Agriculture • New Agriculture Strategy and Green Revolution in India • Industrial Sector: Role, Importance and the Production structure of Indian Industrial Sector • Industrial Policy: 1948, 1956 and 1991 • Small Scale Industries: MSME's and their problems • Growth and contribution of Service Sector in India • Special Economic Zone (SEZ): Policy, Features and Problems 	
Unit 3 : Major Economic Issues	23
<ul style="list-style-type: none"> • Poverty: Concept, Measurement, empirical evidence in India and poverty alleviation programmes • Inequality: Concept, causes for inequalities and Government policy and measures to overcome inequalities in India • Unemployment: concept, measures and employment generation programmes in India • Problem of Population in India and measure to control it • Inflation: factors causing rise in prices in India, consequences of Inflation and anti-inflationary policy of the government 	

<ul style="list-style-type: none"> Regional Imbalances: concept, magnitude of regional imbalances in India and regional planning policy in India 	
Unit 4 : Indian Economy in Global Competitive Environment	22
<ul style="list-style-type: none"> Foreign Capital in India: Component, need and foreign investment inflows in India Trade Policy: Import and Export Policy in Pre-reform and Post-reform period India's External Debt Economic Reforms in India: the policy of Liberalization, Privatization and Globalization Multinational Corporations, FERA & FEMA Globalization, WTO and the Indian Economy International comparisons with its developed counterparts 	

Course Learning Outcomes: At the end of the course, a student should be able to understand the development paradigm adopted in India since independence and evaluate its impact on economic as well as social indicators of progress and well-being.

- Clear understanding of the state of economy before independence and after independence.
- Evaluate various dimensions of sectoral growth in India.
- Critically analyze the various economic issues like poverty, unemployment, inflation, imbalances etc in the process of development.
- Highlight the importance of globalization in the process of development.

Text / Reference Books:

Author	Title	Publisher	Year of Publication	ISBN	Pages
Todaro, M.P. & Smith, S.C.	Economic Development	Pearson Education	2017	978-9332585539	896

Bardhan, P	Awakening giants, feet of clay: Assessing the economic rise of China and India	Princeton University Press	2012	9780198068327	526
Dreze, J., Sen	India: An uncertain glory	Allen Lane	2013	9780141992624	480
Bhagwati, J., Panagariya	India's tryst with destiny	Collins Business	2012	9789351367765	340
Puri, V.K. & Mishra, S.K.	Indian Economy	Himalaya Publishing House	2018	978- 9352991730	769
Datt, R. & Sundharam	Indian Economy	S. Chand Publishing	2021	978- 9352531295	965

L	T	P/S	SW/F W	Total Credit Units
5	0	0	0	5

Course Title: Public Economics
Course Contents/syllabus:

	Lecture Hours
Unit I: Subject Matter of Public Goods Provision and Justice	22
<ul style="list-style-type: none"> • Comparison of Provision of Private Goods and Public Goods in General Equilibrium (Pareto's Optimality criteria.) • Equity in Distribution. Various approaches to distributive Justice. • Public Choice and Fiscal Policies. Voting rules. • Various Approaches of Equity in Taxation: Benefit Principle including Lindahl Theory. Ability to Pay Approach. • Incidence analysis of taxation in various markets. • Effects of Taxation on Work Effort, Savings and Investment. 	
Unit II: Public Expenditure and Budget	23
<ul style="list-style-type: none"> • Meaning, Importance and Causes for the increase in Public Expenditure • Canons of Public Expenditure • Classification of Public Expenditure and the theories of the growth of Public Expenditure: Wagner's Hypothesis, Wiseman and Peacock Hypothesis and Colin Clark's Critical Limit Hypothesis • Effects of Public Expenditure on Production and distribution • Public Budget: Concept, types and objectives; Zero Base Budgeting; FRBM Act • Deficit Financing: Concept and its relation with Inflation, Deficit Financing in India. • Issues relating to Public Debt: Debt Burden Analysis and Management of Public Debt, Domar's • concept of Debt Sustainability Public Debt in India. • Need for rule based fiscal consolidation. Fiscal Responsibility and Budget management (FRBM) act, • 2003. Recent amendments to FRBM act 	
Unit III: Public Revenue and Public Debt	25
<ul style="list-style-type: none"> • Concept and sources of Public Revenue: Tax and Non-tax • Canons of Taxation 	

<ul style="list-style-type: none"> • Types of Direct and Indirect taxes, Proportional, Progressive, Regressive, Digressive, Single and Multiple taxation, Specific and AD VALOREM tax. • Principles of Taxation: Principle of Equity, The Benefit or Quid Pro Quo Principle and the Ability to Pay Principle. The Cost of Service theory • Impact, Incidence and Shifting of Taxation; theories of Tax Shifting : concentration theory, diffusion theory and the modern theory. • Taxable Capacity, Tax Buoyancy, Tax Elasticity and the problem of double taxation • Effects of Taxation • Public Debt: Meaning, Growth, Composition and the method of repayment 	
Unit IV: Indian Public Finances	20
<ul style="list-style-type: none"> • Union Finances: Trends in Revenue and Expenditure of Government of India • Financial Relations between Centre and State • Fiscal federalism in India: Fiscal Policy for development, allocation, distribution and Stabilization • Fiscal Reforms in India • Centre – State Financial Relations in India: Assessment of Horizontal and vertical imbalances. • Role of Finance commissions. • Basics of Defence Planning, Determinants of Defence Expenditure and Defence Budgeting. 	

Course Learning Outcomes: By the end of the course student will be able to critically assess current and future metrics, research technologies, and research data output related to the subject.

- Clear understanding of the key concepts and principles of public finance.
- Demonstrate the importance of Public expenditure for the development of an economy.
- Evaluate the complete topic of Public revenue and importance of public debt for the growth of a nation.
- Critically evaluate the hierarchy of Indian Public Finances.

Text / Reference Books:

Author	Title	Publisher	Year of Publication	ISBN	Pages
B.P. Tyagi	Public Finance	Jai Prakash Nath Co.	2015	978-9384538378	768
H.L. Bhatia	Public Finance	VK Global Publications Private Limited	2012	978-9325960008	698
R. Musgrave and P. Musgrave	Public Finance in Theory and Practice	McGraw Hill International Edition	2017	978-0070596931	648
Priyanka Srivastava	Public Economics	Empire Books International	2020	978-93-90039-15-9	256
Janak Raj Gupta	Public Economics in India: Theory and Practice	Atlantic Publishers & Distributors(P) Ltd	2011	978-8126915644	616

L	T	P/S	SW/F W	Total Credit Units
4	0	0	0	4

Course Title: Rural Economics

Course Contents/syllabus:

	Lecture Hours
Unit I: Introduction to Rural Economy	18
<ul style="list-style-type: none"> • Introduction: Rural Dynamics & Characteristics • Rural Economy: Problems, Challenges and Opportunities • Features: Commercialization of Agriculture, Rural society under the impact of Urbanization and Institutional Participation • Changing Agrarian Economy: Modernization of Agriculture & its progress in India • Rural Farm and Non-Farm sector • Declining Role of Agriculture 	
Unit II: Rural Development	18
<ul style="list-style-type: none"> • Employment and its barriers • Rural Employment Generation Programme: NRLM & MGNREGA • Approaches for Rural Development: Rapid Rural Appraisal (RRA) & Participatory Rural Appraisal (PRA). • Sustainable Development in Rural Sector. • Technology for Rural Growth: ICT 	
Unit III: Planning for Development in Rural Areas	18
<ul style="list-style-type: none"> • Rural Planning: Levels & functions • Decentralization in Planning: Block-level Planning & District-level Planning • Role of Co-operative societies in rural development • Community Capacity Building Programmes • Voluntary Agencies/ NGOs to support rural sector 	
Unit IV: Rural Entrepreneurship	18

<ul style="list-style-type: none"> • Meaning & its role in rural development • Concept of Agri-preneurship • Role of Micro-Finance Institution in rural development • Role of Self-help Groups • Micro, Small & Medium Enterprises in Rural India • Rural industrialization 	
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Course Learning Outcomes: By the end of the course student will be able to critically assess current and future metrics, research technologies, and research data output related to the subject.

- Establish the understanding of the nature, scope and role of rural economy.
- Demonstrate the role of various employment generation programmes for rural development.
- Evaluate the importance of planning for development in rural areas.
- Highlight the role and importance of Rural entrepreneurship for the growth of rural areas.

Text / Reference Books:

Author	Title	Publisher	Year of Publication	ISBN	Pages
Karl, E. & Witt, L.	Agriculture and Economic Development.	New York: McGraw Hill Company	1964		
Sharma,	Rural Economics	R B S A	1995	978-	

N.K.		Publishers		8185813417	
Singh, K. & Shishodia, A	Rural Development: Principles, Policies and Management.	SAGE Publishers India Private Ltd.	2016	978- 9351509981	392

L	T	P/S	SW/F W	Total Credit Units
4	0	0	0	4

Course Title: Economics of Health and Education

Course Contents/syllabus:

	Lecture hours
Unit 1 Role of health and education in human development	18
<ul style="list-style-type: none"> • Importance of Poverty Alleviation • Concept and Significance of Human Capital Formation • Health and Education Outcomes • Relationship of Health and Education with Macroeconomic Performance 	
Unit 2 : Topics in health economic theory	18
<ul style="list-style-type: none"> • Demand for health, • Grossman's model of demand for health, • Information asymmetry in healthcare demand, and the health insurance market, • Physician induced demand, • Adverse selection and moral hazard in health insurance 	
Unit 3 : Economic evaluation of health care	18
<ul style="list-style-type: none"> • Cost effectiveness and cost-benefit analysis • Valuing life • Public policy in the health sector; • Externalities in health and health care; • Rationale for government intervention in the health sector 	

Unit 4 : Education:	18
<ul style="list-style-type: none"> • Investment in human capital; • Rate of return to education: private and social • Quality of education; • Signalling of human capital; • Theories of discrimination; • Gender and caste discrimination in India 	

Course Learning Outcomes: At the end of the course, a student should learn the role of health and education in human development.

- They will be able to apply economic theory to understand the demand for health care, market failure in health insurance, economic evaluation of health care programmes and the role of public policy in the healthcare industry.
- They will also learn to analyse the returns to education, its role in labor market signalling, and the progress of schooling in India.
- They will also be exposed to the theories of discrimination.

Text / Reference Books:

Author	Title	Publisher	Year of Publication	ISBN	Pages
Bhattacharya, J., Hyde, T., Tu, P	Health Economics	Palgrave Macmillan	2014	9781137029966	624
Ehrenberg, R., Smith	Modern labor economics: Theory and public policy 11th ed	Addison Wesley	2012	9780133462784	650
World Health Organisation	The economics of	World Health	2013	9789241548625	124

	the social determinants of health and health inequalities: A resource book	Organisation			
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Course Title: Dissertation- NTCC

Course Title: Computer Applications in Economics

Course Contents/syllabus:

	Lectures
Unit-1 World of Computers	9
Introduction to world of Computers, Structure of Computer System, Computers in Home (Reference, Education & Communications, Entertainment an Digital Media Delivery, Smart Appliances, Home Computers), Computers in Education, Computers in workplace (productivity and decision making, customer services, communications), Computers on the move (Portable and Hand held computers, Self-Service kiosks, GPS Applications), Types of Computer (Size and Technology wise), Support Systems - Hardware and Software.	

Unit-2- Computer Networks and Internet Technology	9
Introduction to Computer Networks, Networking components, Classification and types of Networks, Network Topologies – Overview with Advantages and Disadvantages, Client Server Architecture, LAN concepts, Introduction to Internet (History, Concepts & Myths), Difference between Internet, Intranet and Extranet, Domain Name Service, Censorship and Privacy issues.	

Unit-3- Database Management System	9
Introduction, Need for DBMS, Components of DBMS, Benefits of DBMS over Traditional File System, classification and types of Database Models, Database Approach – Its benefits and disadvantages, Concept of Data Warehouses and Data Marts. Introduction to MS-Access.	
Unit-4-Application of IT in Business and Future Trends in Technology	9
Functional areas of an organization, Role of Information Technology: HRM, Finance and Accounts Management, Marketing Management, Information System Management, Operation Management, Disaster Recovery Planning, Cloud Computing, Green Computing, Big Data.	

Note: Familiarization with MS-Access and Internet shall be done in class, as they require hands-on training.

Course Learning Outcomes: At the end of this course, the students will be able to:

- Develop the understanding and practical exposure to the techniques of Information Technology
- Apply various terminologies used in the operation of computer systems in a business environment
- Provide the best chance of growth of an organization in the new age
- Enhance the analytical and design skills which are applicable in all Business Functional Areas

Text / Reference Books:

Author	Title	Publisher	Year of publication	ISBN	Pages
Charles Parker, Deborah Morley	Understanding Computers: Today & Tomorrow	CENGAGE	2014	9781285767307	440
V. Rajaraman, Neeharika Adabala	Fundamentals of Computers	Prentice Hall India	2014	9788120350670	448

Pradeep K. Sinha , Priti Sinha	Computer Fundamentals : Concepts, Systems & Applications	BPB Publications	2004	9788176567527	536
Pradip K. Chande, Parag Kulkarni	IT Strategy for Business	Oxford University Press	2008	9780195694475	440

S.No	Program	Semester	Course Title	Credits			Credit Units
				L	T	P	
1	B. Tech	I	Principles of Economics for Engineers	3	0	0	3
2	BA LLB	I	Economics- Introductory Micro Economics	4	0	0	4
3	BA LLB	II	Economics-Introductory Macro Economics	4	0	0	4
	BA LLB	III	Economics- Intermediate Micro Economics	4	0	0	4

	BA LLB	IV	Economics-Intermediate Macro Economics	4	0	0	4
	BA LLB	V	Economics- Law and Economic Development	4	0	0	4
	BA LLB	VI	Economics- Indian Economy	4	0	0	4
		Total Credits		27			

Principles of Economics for Engineers

L	T	P	Total Credits
3	0	0	3

Course Contents/syllabus:

	Lecture hours
Unit 1: Introduction to Economics	13
<ul style="list-style-type: none"> Nature and definition of Economics, Basic problems of Economics, Economics as a positive science. Relationship of Economics with other social sciences and Computer engineering Production possibility Curve 	
Unit 2 : Concept of Demand and Supply	13
<ul style="list-style-type: none"> Demand, its types, its determinants, elasticity of demand, how the concept is used in decision making. Supply and its determinants, elasticity of supply. Utility analysis: cardinal and ordinal utility analysis. Laws of utility. Consumer equilibrium in cardinal approach and ordinal approach, Indifference curves and its properties. 	

Unit 3: Economic behaviour of firms	13
<ul style="list-style-type: none"> • Production function, law of variable proportion, law of returns to scale, Concepts of Isoquants, Marginal rate of Technical Substitution, producer equilibrium by using isoquants. Cost concepts and its classification, short run and long run cost theories. Relationship between Marginal cost and average cost 	
Unit 4 : Markets and introduction to Macro economics	13
<ul style="list-style-type: none"> • Different market structure, perfect competition, monopoly, Monopolistic, Oligopoly, and duopoly market structure. Break even analysis. • Circular flow of income, national income concepts, inflation, unemployment, Consumption: Keynesian consumption function. 	

Course Learning Outcomes:

- This course enables students to understand and analyse how society manages its scarce resources for achieving maximum utility. It also helps to make familiar with various economic concepts and tools to analyse economic problems and enable the students how to use in decision making process.
- It also allows them to learn about how an economic agent behaves as a consumer and as a producer. This course also enables the students to understand the different forms of markets in an economy and expose to basic concepts in macroeconomics

Text / Reference Books:

Author	Title	Publisher	Year of Publication	ISBN	Pages
Ahuja H. L	Modern Economics	S. Chand & Co.Ltd	2016	9352531469	1776
Ahuja H. L	Business Economics	S. Chand & Co.Ltd	2018	9789352533312	712

Dornbusch, R., Fischer, S., Startz, R	Macroeconomics, 12th ed	McGraw-Hill	2018	9780073375922	636
Mankiw, N	Macroeconomics	Worth Publishers	2016	9789386668424	408
Mankiw, N	Principles of Economics	Cengage Learning	2000	978-0030270178	539

Subject Name- Economics- Introductory Microeconomics
Subject Code-

L	T	P	Total Credits
4	-	-	4

Course content and syllabus

	Weightage (%)	Teaching Hours
UNIT I: EXPLORING THE SUBJECT MATTER OF ECONOMICS	25	18 hrs
<ul style="list-style-type: none"> • Why study economics? • Scarcity and Choice; • The scope and method of Economics; • Economics as Art, Science and Social Science • Positive vs Normative Economics • Different Types of Economic Systems- Capitalist, Socialist and Mixed Economy 		

<ul style="list-style-type: none"> • Central Problems: Questions of what, how and for whom to produce and how to distribute output • Concept of Production Possibility Frontier, Marginal rate of Technical Transformation 		
UNIT II: SUPPLY AND DEMAND: HOW MARKETS WORK, MARKETS AND WELFARE	25	18 hrs
<ul style="list-style-type: none"> • Concept and determinants of demand and supply • Individual demand and supply schedules • Individual demand and supply curves • Derivation of market demand and supply; • Shifts and Movements in demand and supply curves; • Law of demand & Law of Supply and their determinants • Role of prices in resource allocation; • Concept of Consumer surplus and Producer Surplus • Elasticity of Demand — price, income and cross; degrees of elasticity of demand • Determinants of Elasticity of demand • Elasticity of Supply- Degrees of elasticity of supply 		
UNIT III: CONSUMER'S BEHAVIOR	25	18 hrs
<ul style="list-style-type: none"> • Utility Analysis -cardinal and ordinal approaches, • Cardinal Approach- Law of Diminishing Marginal Utility, Law of Equi-Marginal Utility • Indifference curves- Concept, Properties, Different shapes • Budget constraint for a consumer • Consumer Equilibrium through IC and Budget Line • Hicks and Slutsky Price Effect, Income Effect and Substitution Effect • Revealed Preference Theory; 		
UNIT IV: THEORY OF PRODUCTION AND COSTS	25	18 hrs
<ul style="list-style-type: none"> • Production Function: Production with one and more variable inputs, • Law of Variable Proportions, Law of Returns to scale, • Concept of isoquants, Marginal Rate of Technical Substitution, Producer's equilibrium through isoquants and isocost line, Expansion Path 		

<ul style="list-style-type: none"> • Short run and Long run costs curves: total, average, and marginal, Relationship between AC, AFC, AVC and MC curves, Derivation of LAC as Planning curve, Derivation of LMC curve 		
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Course Learning Outcomes:

By the end of the course student will be able to think like an economists & the course will illustrate how microeconomic concepts can be applied to analyze real life situations.

- Develop an understanding of microeconomics concepts and explanations.
- Assess diverse situations of demand and supply as they impact a business.
- Evaluate the impact of microeconomics on individual decision making as consumers & producers.
- Analyze the production and cost structures for optimal equilibrium situations.

Text / Reference Books:

Authors	Title	Publisher	Ed/year	ISBN No	Pages
Snyder and W. Nicholson	Fundamentals of Microeconomics	Cengage Learning	2010	978-8131514085	
Douglas Bernheim and Michael D. Whinston	Microeconomics	Tata McGraw-Hill	2009	978-0077211998	
Koutsoyiannis	Modern Microeconomics	Palgrave Macmillan	1990	978-0312541033	581

Subject Name- Economics- Introductory Macro Economics
 Subject Code-

L	T	P	Total Credits
4	0	0	4

Course content and syllabus

	Weightage (%)	Teaching Hours
UNIT I: INTRODUCTION TO MACROECONOMICS AND NATIONAL INCOME ACCOUNTING	25	18 hrs
<ul style="list-style-type: none"> Nature and scope of macroeconomics –Meaning and definition of key variables; Circular Flow and networking in macroeconomic system; Basic issues studied in macroeconomics: Measurement of gross domestic product; income, expenditure and the circular flow; real versus nominal GDP; Price indices; National income accounting for an open economy; Balance of payments: current and capital accounts 		
UNIT II: SAVINGS AND INVESTMENT, MONEY	25	18 hrs
<ul style="list-style-type: none"> Concept of Consumption, Determinants of Consumption and Consumption Function, Keynes Psychological Law of Consumption Concept of savings, Determinants of savings, saving function Concept of Investment, Investment function, determinants of investment, Concept of multiplier, Functioning of multiplier, Acceleration principle Types of Money, Functions of money; quantity theory of money; determination of money; Demand for Money: transactionary, speculative and precautionary motives; Credit Creation: Money Multiplier, Supply of Money; Central Bank and Tools of monetary policy; Money Market Equilibrium 		
UNIT III: INFLATION AND UNEMPLOYMENT	25	18 hrs
<ul style="list-style-type: none"> Concept of inflation, determinants and types of inflation, inflation and its social cost, hyperinflation; Controls of Inflation: Monetary Policy, Fiscal Policy and Physical Controls; Concept, types and Phillips Curve in short run and long run; Relationship between inflation and unemployment. 		

UNIT IV: THE CLOSED ECONOMY IN THE SHORT RUN	25	18 hrs
<ul style="list-style-type: none"> • Schools of macroeconomic thought: Classical, Keynesian, New classical and New Keynesian; • Classical and Keynesian systems; • Keynesian model of income determination; • IS-LM model; fiscal and monetary policy 		

Course Learning Outcomes:

By the end of the course student will be able to critically assess current and future metrics, research technologies, and research data output related to the subject.

1. Develop an understanding of macroeconomics concepts and explanations.
2. Enable students to understand and comment upon real economic issues like inflation, money supply, GDP and their inter-linkages.
3. Critically evaluate various macroeconomic policies in terms of a coherent logical
4. structure and appraise economic issues and public policy by using economic models.
- 5.

Text / Reference Books:

Test books/ Reference books

Authors	Title	Publisher	Ed/year	ISBN No	Pages
A. Abel, B. Bernanke	Macroeconomics	Pearson Education	2016	9780134896441	651
O. Blanchard	Macroeconomics	Pearson Education	2018	978- 9332587601	624
Dornbusch, R., Fischer, S., Startz, R.	Macroeconomics	McGraw-Hill.	2018	978- 9339221188	680

L	T	P/S	SW/FW	Total Credit Units
4	0	0	0	4

Course Title: Intermediate Microeconomics

Course Code: - ECN

Credit Units: 4

Course Level: UG

Course Objectives: The course is designed to provide a sound training in microeconomic theory to analyze the behaviour of firms in the different forms of markets able to relate to the real-world functioning of firms in the Markets.

Prerequisites: Basic knowledge of Microeconomics.

Course Contents/syllabus:

	Lecture Hours
Unit I: Analysis of Competitive Markets	18
<ul style="list-style-type: none"> Profit Maximisation and Equilibrium of a Firm and Industry in the Short Run and Long run under Perfect Competition including the Supply Curve, Consumers' and Producers' Surplus and Efficiency of Perfect Competition. Welfare Effects of an Excise Tax, Import Tariff, Price controls (supports) and Production Quotas 	
Unit II: Monopoly	18
<ul style="list-style-type: none"> Source, Measurement and Welfare Costs and Dynamic benefits of Monopoly Power. Monopoly Price Discrimination. Out Put and Welfare Comparisons with Single Price Monopoly. Inter-Temporal Price Discrimination and Peak Load Pricing. Two part tariffs and Tie- in Sales Demand; income offer curves and Engel curves, price offer curve and demand curve. 	
Unit III: Monopolistic Competition	18

<p>Characteristics. A firms' Short and Long Run Equilibrium with Differential Products and Selling Costs (Advertisements). Group equilibrium. The Issue of Excess Capacity under Monopolistic Competition. The debate over Advertising.</p> <ul style="list-style-type: none"> • Oligopoly: Cournot, Stackellberg and Kinked demand Curve. Leadership Models. Collusion and Cartels 	
Unit IV: Market Failure	18
<p>Market failure, asymmetric information, moral hazard, principal agent problem in insurance market, public goods, common property resources, free riders problem, Coase theorem.</p>	

Course Learning Outcomes: By the end of the course student will be able to critically assess the various forms of Market conditions and relate to the real-world mechanism of functioning of market.

Text / Reference Books:

Author	Title	Publisher	Year of Publication	ISBN	Pages
Gregory Mankiw	Economics: Principles & Applications	Thomson Press (India) Ltd	2008	978-8131505779	
C. Snyder and W. Nicholson	Fundamentals of microeconomics	Cengage Learning	2010	978-8131514085	684

Hal Varian	Intermediate microeconomics: A modern approach	W. W. Norton	2010	978- 8176710657	
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L	T	S	SW/FW	Total Credit Units
4	0	0	0	4

Course Title: Intermediate Macroeconomics

Course Code: ECN

Credit Units: 4

Course Level: UG

Course Objectives: This course introduces students to the conceptual tools to understand the functioning of the macroeconomy. It discusses various alternative theories of output and employment determination in a closed economy in the short run as well as medium run, and the role of policy in this context. It also introduces students various concepts related to macroeconomy in an open economy model.

Prerequisites: Knowledge of Introductory Macroeconomics

Course Contents/syllabus:

	Lecture hours
Unit 1: The labour market	18
<ul style="list-style-type: none"> • Wage determination; wages, prices and employment. • Natural rate of unemployment; from employment to output 	
Unit 2 : Aggregate demand and aggregate supply curves	18
<ul style="list-style-type: none"> • Derivation of aggregate demand and aggregate and supply curves • Interaction of aggregate demand and supply to determine equilibrium output, price level and employment 	

Unit 3 : Inflationary trends in Indian economy	18
<ul style="list-style-type: none"> • Role of fiscal policy- Objectives, Instruments, Fiscal policy and stabilisation, fiscal policy and economic development • Role of monetary policy- Objectives, Instruments, Monetary policy and stabilisation, monetary policy and economic development • Role of physical controls 	
Unit 4 : Foreign Exchange and Balance of payments	18
<ul style="list-style-type: none"> • Foreign Exchange • Balance of payments • Components of Balance of Payments • Disequilibrium in Balance of Payments- Causes of disequilibrium • Ways to correct BoP deficit • Exchange rate stability • Concept of Devaluation and Revaluation • Concept of Depreciation and Appreciation 	

Course Learning Outcomes:

- This course enables students to analyse the macroeconomic performance of various countries using formal analytical tools.
- It also allows them to evaluate important macroeconomic policies and their implications on an open economy.

Text / Reference Books:

Author	Title	Publisher	Year of Publication	ISBN	Pages
Abel, A., Bernanke, B	Macroeconomics	Pearson Education	2016	9780134167398	672

Blanchard, O.	Macroeconomics	Pearson Education	2018	9789353945220	576
Dornbusch, R., Fischer, S., Startz, R	Macroeconomics, 12th ed	McGraw- Hill	2018	9780073375922	636
Mankiw, N	Macroeconomics	Worth Publishers	2016	9789386668424	408

H.L. Ahuja	Principles Of Microeconomics	S Chand Publishing	2016	978- 9352533305	872
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L	T	P/S	SW/FW	Total Credit Units
4	0		0	4

Course Title: Economics- Law and Economic Development

Course Code:

Credit Units: 4

Course Level: UG

Course Objectives:

By shaping incentive structure for the private individuals and the government entities, legal rules play important role in functioning of an economy. Indeed, legal rules can have astounding effects on allocation and use of resources. Besides, legal rules greatly affect the distribution of different forms of wealth. This course will illustrate how legal rules are amenable to economic analysis, and how different legal rules can lead to different outcomes in terms of allocative efficiency and distribution.

Content	Lecture hours
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Unit 1: Basic Issues in Economic Development	18
<ul style="list-style-type: none"> • Law and Economic Development: An introduction • Concept and measurement of Development and underdevelopment. • Difference between Growth and Development • Determinants of Economic development • Human Development Indices • Physical Quality of Life Indices 	
Unit 2 : Law vs Market	18
<ul style="list-style-type: none"> • Efficiency criteria in welfare economics • Coase theorem • Prisoners' dilemma. • Efficient contracts • Property rights and their role in resource allocation • Legal remedies for breach of property rights and their economic effects • Liability for accidents and harms • Product liability • Efficiency of liability rules • Efficiency-compensation trade-off. • Litigation - its causes and consequences • Benefits of legal certainty 	
Unit 3 : Law and Public Policy	18
<ul style="list-style-type: none"> • Law and public policy. • Land and property • Market and non-market mechanisms for allocation and transfer of land • Land markets and law 	

<ul style="list-style-type: none"> • Eminent domain – the land acquisition law • Labour Market and law • Intellectual Property Rights (IPRs): patents, copyright and trademarks. • Cost and benefits of private IPRs • Individual rights vs. common good 	
Unit 4 : Empirical law and Economic Development	18
<ul style="list-style-type: none"> • Empirical work on policing and crime • Judges’ decision • Discrimination • Corporate Governance • Any other relevant current empirical research on law and economics 	

Course Learning Outcomes:

This course will familiarise students with the economic approach towards thinking about the law and public policy. Students will come to recognise the law as an important organising force that influences the actions of private citizens as well as government agencies. Students will also learn how the law can support and, at times conflict with, the functioning of the market and the government, the other two important organising forces of an economy. The course will enhance critical thinking and an inter-disciplinary approach towards the law, economics, and policymaking. Thereby, the course will help to develop an inter-disciplinary approach and enhance the employability of students

Pedagogy for Course Delivery: This class will be taught using the Four Quadrant Approach i.e., recorded video lectures, formal classroom discussion, student presentations and assessment.

Text / Reference Books:

Author	Title	Publisher	Year of	ISBN	Pages
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			Publication		
Cooter, R., Ulen, T	Law and economics	Pearson.	2013	978-0132540650	576
Miceli, T	The theory of eminent domain: Private property, public use, 2nd ed	Cambridge University Press	2012	978-0521182973	216

Course Title: Economics- Indian Economy

Course Code:

Credit Units: 4

Course Level: UG (BALLB)

L	T	P	Total Credits
4	0	0	4

Course Objectives: The course aims to provide an understanding of constituent sectors that define the Indian Economy and enable learners to examine the role and contribution of different sections of the economy in economic development of India. The course also aims to enable the learners to examine the role and impact of planning process on economic development of India.

Course Contents/syllabus:

	Lecture Hours
Unit I: Under Developed Economy & Population Problems	18
Underdeveloped Economy: Meaning of Underdeveloped Economy - Basic characteristics of Underdeveloped economies, India as an Underdeveloped economy. Population problem: Its Causes and effects on Economy - Trends of growth in population, problem of overpopulation; Is India overpopulated? Theories of population (Malthusian and optimum theory), Importance of population control.	

Poverty & Unemployment: Poverty: Relative and Absolute poverty. Indicators of poverty-its causes and measures to remove it. Unemployment: Nature of Unemployment in India, its causes and effects	
Unit II: Structure of Indian Economy & Planning in India	18
Basic features of Indian Economy, Natural resources - Land, Water and Forest resources; Broad demographic features - population size and growth rates, sex composition, rural-Urban migration, occupational distribution; problem of overpopulation; infrastructure development; National Income Planning objectives; Strategy; achievements and failures;, allocation and targets; New economic reforms - Liberalization, privatization and globalization; Rationale behind economic reforms; progress of privatization and globalization.	
Unit III: Agriculture	18
Nature and importance; Trends in agricultural production and productivity; Factors determining productivity; Land Reforms; New agricultural strategy and green revolution; Rural credit, Agricultural marketing.	
Unit IV: Industry & External Trade	18
Industrial development during the planning period; Industrial policy of 1948, 1956, 1977, and 1991; Industrial licensing policy - MRTP Act, FERA and FEMA; Growth and problems of small scale industries; Role of public sector enter prices in India's industrialization. Role of foreign trade; Trends in exports and imports; composition and direction of India's foreign trade; Balance of payments crisis and the new economic reforms - Export promotion measures and new trade policies. Foreign capital-FDI aid; Multinational corporations. (MNCs). Export-import policies and their impact on exports and imports. WTO-meaning of major agreements (AOA, MFA, TRIPS, TRIMS etc.) and impact on India (wherever relevant).	

Course Learning Outcomes: By the end of this course, students will be able to

- Demonstrate the basic economic problems faced by Indian economy
- Comprehensively understand, interpret, compare & contrast, various issues related to poverty and unemployment.
- Analyze the conditions of Indian Economy: its structure and demographics, condition of Agricultural and Industrial sectors
- Interpret and justify Planning in India, Planning agricultural production and productivity growth rate of the economy, fiscal deficit

Text / Reference Books:

Author	Title	Publisher	Year of publication	ISBN	Pages
TR Jain , Mukesh Trehan	Indian Economy	V.K publications	2020	ASIN : B08DY9FPQX	480
Ruddar Datt	Indian Economy	S Chand & Co Ltd	2016	9788121902984	996
I.C Dhingra	The Indian Economy	Sultan Chand & Sons	2018	9783319504650	944
Shrirangam, Kuma & Jha,	Indian Economy (Principles, Policies And Progress)	Pearson Education	2019	ASIN : B083SGCGBY	528

