

SEMESTER – I**MJC-1: INTRODUCTORY MICROECONOMICS**
(Credit: 6)Course Outcomes

After the completion of the course, the students will be able to:

- CO1:** Use microeconomic concepts such as saving and investment in their real life situation.
- CO2:** Understand the profit making techniques used by different businesses or firms
- CO3:** Grasp the basic concepts of Microeconomics such as Laws of Demand, Supply and Elasticity
- CO4:** Apply Indifference Curve Analysis in Deriving Demand Curve Income and Substitution Curve

Unit	Topics to be covered	No. of Lectures
1	Exploring the subject matter of Economics: Definition of Economics, Need, Scope and Methods of Economics, Nature and subject matter of Economics, Problem of scarcity and choice, Central Problems of Economy.	10
2	Supply and Demand: (a) Concept and types of demand, determinants of individual demand/supply; demand and demand function, theory of demand and law of demand and supply, exceptions to law of demand, demand supply schedule and demand/supply curve; demand for complementary and substitute goods, market versus individual demand/supply; shifts in the demand/supply curve, demand and supply together, elasticity of demand and supply, determinants, measurement and application, static and dynamic demand, consumer surplus (b) The theory of Consumer Behaviour: Cardinal and Ordinal utility analysis.	18 07
3	The Firm and Market Structure: Nature of firm, organizing economic activity in a firm, Objective of a firm: Profit maximization vs. sales maximization, Introduction to basic idea of equilibrium of a firm, condition for producers' equilibrium in short run and long run for firm and industry: total and marginal approach. Basic idea of market, concept and types of cost and revenue; total, average and marginal concept, classification of market, time element in market, Characteristics of Different Market Structures along with relevant examples.	25
4	The Markets for the Factors of Production: Labour market: Basic concepts, derived demand, productivity of an input, marginal productivity of labour, marginal revenue product, demand for labour, backward bending supply curve of labour, tax policy and labour supply, labour force participation, determination of wage rate in a perfectly competitive labour market.	20
	Total Lectures	80

Suggested Readings:

1. Karl E. Case and Ray C. Fair, *Principles of Microeconomics*, Pearson Education Inc.
2. N. Gregory Mankiw, *Economics: Principles and Applications*, India edition by South Western, a part of Cengage Learning, Cengage Learning India Private Limited, 4th edition, 2007.
3. Joseph E. Stiglitz and Carl E. Walsh, *Economics*, W.W. Norton & Company, Inc., New York, International Student Edition, 4th Edition, 2007.
4. Hal R. Varian, *Intermediate Microeconomics, a Modern Approach*, W.W. Norton and Company/Affiliated East-West Press (India), 8th edition, 2010.
The workbook by Varian and Bergstrom may be used for problems.
5. Snyder and W. Nicholson, *Fundamentals of Microeconomics*, Cengage Learning (India), 2010.

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SEMESTER - II
MJC-2: MATHEMATICAL METHODS IN ECONOMICS
(Credit – 6)

Course Outcomes

After the completion of the course, the student will be able to:

- CO1:** Apply methods of various mathematical techniques to economic theory in general.
CO2: Understand and have a clear vision, related to various economic theories by the use of different testable propositions or formulas.
CO3: Learn Set and Set Operations.
CO4: Use Differential and Integral Calculus and its economic application

Unit	Topics to be covered	No. of Lectures
1	Preliminaries: Logic and proof techniques; Sets and Set Operations, Ordered pairs and Cartesian Products Functions and their Properties Number System Basic idea of Permutation and Combination Progression: Arithmetic, Geometric and Harmonic Progression.	20
2	Functions of One Variable a. Graphs; Elementary types of Functions: Quadratic, Polynomial, Power, Exponential and Logarithmic Functions. b. Sequences and Series: Convergence and Divergence, Algebraic Properties and Applications. c. Continuous Functions: Characteristics and Properties of Continuous Functions, Convergence and Divergence. d. Limit of a Function: Method to Evaluate the Limit of Algebraic, Logarithmic and Exponential Functions.	25
3	Rules of Differentiation: Differentiable Functions; Derivatives of Sum, Difference, Product and Quotient Functions; Second and higher order derivatives; Applications of differentiation in Economics.	20
4	Single-Variable Optimization: Conditions for Maxima and Minima; simple applications of maxima and minima in economics – maximization of profit/ net revenue, cost minimization.	15
	Total Lectures	80

Suggested Readings:

1. K. Sydsaeter and P. Hammond, *Mathematics for Economic Analysis*, Pearson Educational Asia: Delhi, 2002. ,
2. Chiang, A. C., *Fundamental Methods of Mathematical Economics*, McGraw Hill, New York

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Semester III
MJC- 3: INTRODUCTORY MACROECONOMICS
(Credit: 5)

Course Outcomes

After the completion of the course, the student will be able to:

- CO1: Develop a proper and in- depth understanding of variables dealing with the aggregate economy.
- CO2: Analyse the basics of National Income Accounting, which will help them to describe and analyze the economy in quantitative terms.
- CO3: Understand the major issues and concerns of the economy such as unemployment, inflation, poverty and economic growth.
- CO4: Describe Functions of Money and Determination of Money Supply and Demand

Unit	Topics to be covered	No. of Lectures
1	Introduction to Macroeconomics and National Income Accounting The Origin and Roots of Macroeconomics, Need and relevance of Macroeconomics, Scope of the Subject, Macroeconomic concerns and issues ,the Role of Government in Macroeconomics ,the components of Macroeconomics ,methodology to macroeconomics, Circular flow of Income, The Concepts of National income: GDP, GNP, NNP, NNP at factor cost, Personal income, private income and personal disposable income, approaches to calculating GDP, Nominal and real GDP, Green GDP, concept of social accounting, limitations of GDP as a measure of social welfare, difficulties in measuring national income in developing economies ,GDP and black economy ,concept of base year and GDP index	20
2	Money and Banking Functions of money; quantity theory of money; fundamental equations; Keynesian theory of money and prices, determination of money supply and demand; Central banking: history, objectives, functions, relevance, performance, tools of monetary policy: Concept and history of commercial banking - functions, distribution of assets and credit creation.	20
3	The Closed Economy in the Short Run Classical and Keynesian systems; simple classical system of output and employment, Keynesian model of income determination , Aggregate supply and demand , fiscal and monetary multipliers, limitation and Relevance of Keynesian economics to developing economy	20
TOTAL		60

Suggested Readings:

- Dornbusch, Fischer and Startz, *Macroeconomics*, McGraw Hill, 11th edition, 2010.
- N. Gregory Mankiw. *Macroeconomics*, Worth Publishers, 7th edition, 2010.
- Olivier Blanchard, *Macroeconomics*, Pearson Education, Inc., 5th edition, 2009.
- Richard T. Froyen, *Macroeconomics*, Pearson Education Asia, 2nd edition, 2005.
- Andrew B. Abel and Ben S. Bernanke, *Macroeconomics*, Pearson Education, Inc., 7th edition, 2011.

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SEMESTER - III
MJC- 4: STATISTICAL METHODS IN ECONOMICS
(Credit: 4)

Course Outcomes

After the completion of the course, the student will be able to:

- CO1: Learn the Basic Concepts of statistics and its application
- CO2: Understand Bayes Theorem, Normal Distribution, Poisson Distribution
- CO3: Understand Elementary Probability Theory including Probability Distribution
- CO4: Apply the methods of calculating covariance and also the concept of correlation coefficient and regression analysis

Unit	Topics to be covered	No. of Lectures
1	Basic Statistics Measures of Central Tendency: Mean, Median Mode, Geometric Mean, Harmonic Mean; Measures of Dispersion: Mean Deviation, Quartile Deviation, Standard Deviation; Moments, Skewness, Kurtosis, Gini coefficient, Lorenz Curve, Bivariate Frequency Distribution: Simple Correlation and Linear Regression Analysis	20
2	Index Number Concept of Index Number, Laspeyre's Paasche's and Fisher's Ideal Index Number, Tests for Ideal Index Number, Problems in Construction of Index Number, Applications: Cost of living index Number	10
3	Concept of Probability and Probability Distribution: Sample space and events; probability axioms and properties; Concept of random variable, Addition and Multiplication Theorem, Conditional Probability and Bayes Theorem Probability Distributions: Binomial, Poisson and Normal Distribution- properties, mean and variance.	15
4	Sampling Theory and Estimation Concept of Sampling, Methods of Sampling, Types of Sampling, Concept and properties of an estimator, Point and Interval Estimation.	5
	TOTAL	50

Suggested Readings:

- Jay L. Devore, Probability and Statistics for Engineers, Cengage Learning, 2010.
- John E. Freund, Mathematical Statistics, Prentice Hall, 1992.
- Gupta S.P, Statistical Methods, S.Chand & Sons, New Delhi.
- Richard J. Larsen and Morris L. Marx, An Introduction to Mathematical Statistics and its Applications, Prentice Hall, 2011.
- Richard J. Larsen and Morris L. Marx, An Introduction to Mathematical Statistics and its Applications, Prentice Hall, 2011.

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SEMESTER - IV
MJC - 7: INDIAN ECONOMY
(Credit - 5)

Course Outcomes

After the completion of the course, the student will be able to:

CO1: Examine sector-specific policies and their impact in shaping trends in key economic indicators in India.

CO2: Evaluate the Indian Empirical evidence

CO3: Analyze the rapid Economic changes taking place in the economy

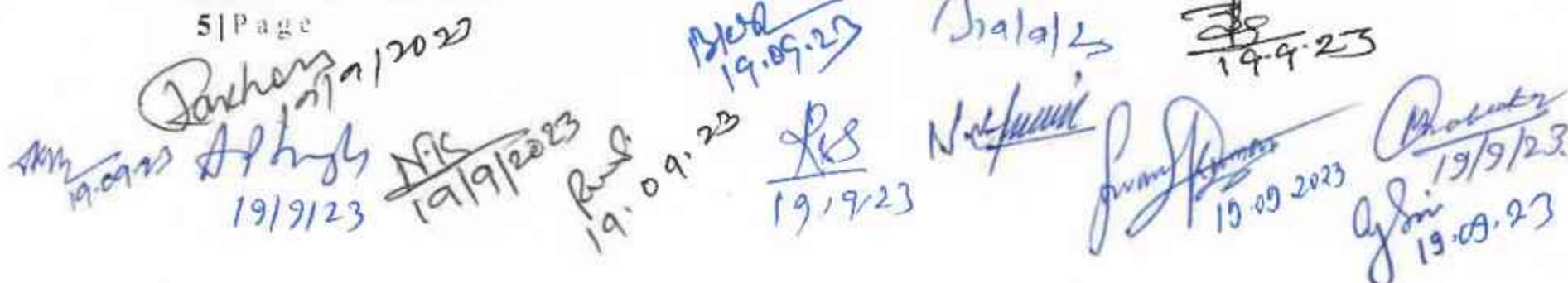
CO4: Learn about the role of agriculture and industry in Economic development and their performance in Indian perspective.

Unit	Topics to be covered	No. of Lectures
1	Economic Development since Independence Characteristics of Indian Economy, Main features of the economy at independence; Structural change, growth and development under different policy regimes—goals, constraints, institutions and policy framework; an assessment of sectoral performance, sustainability and regional contrasts; structural change, trends of savings and investment.	10
2	Indian Agriculture: Importance of Agriculture in Indian economy, Problems in Indian Agriculture and their possible solutions, Efforts by the Government for upliftment of Indian Agriculture, Trends in Agricultural growth and Productivity; Land Reforms; Green and Rainbow Revolution; Agricultural Marketing; Agricultural Price Policy; Food Security in India, status, prospect and problem of food processing in India	15
3	Indian Industry and Services Sector Industrial policies in India since independence, Importance of small scale industries in India, problems, remedies, industrial sickness in India, labour issues and social security, Services Sector: growth and present state of IT, hospitality and financial sector in India, Fiscal and Financial Sector Reforms in India. Foreign Trade in India - Composition and Direction.	15
4	Bihar Economy: General features of the economy, performance, major challenges and causes of backwardness in different sectors. Human Resource Development- Concept and Emerging Issues, Policies for unemployment, Migration- Dimension and its impact. Policies and Programmes of the State Government for development of different sectors.	20
	TOTAL	60

Suggested Readings:

Shankar Acharya, 2010, -Macroeconomic Performance and Policies 2000-8, in Shankar Acharya and Rakesh Mohan, editors, *India's Economy: Performances and Challenges: Development and Participation*, Oxford University Press.
Rakesh Mohan, 2010, -India's Financial Sector and Monetary Policy Reforms, in Shankar Acharya and Rakesh Mohan, editors, *India's Economy: Performances and Challenges: Development and Participation*, Oxford University Press.
Pulapre Balakrishnan, Ramesh Golait and Pankaj Kumar, 2008, -Agricultural Growth in India Since 1991, *RBI DEAP Study no. 27*.

Kunal Sen, 2010, -Trade, Foreign Direct Investment and Industrial Transformation in India, in Premachandra Athukorala, editor, *The Rise of Asia*, Routledge



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SEMESTER - V
MJC 8: INTERMEDIATE MICROECONOMICS 2
(Credit - 5)

Course Outcomes

After the completion of the course, the student will be able to:

- CO1: Differentiate between Partial and General Equilibrium
- CO2: Analyse the behavior patterns of different economic agents and market situations
- CO3: Understand Imperfect Competition and Distribution theory
- CO4: Learn about Externalities and Market Failure

Unit	Topics to be covered	No. of Lectures
1	Imperfect Markets Imperfect markets :common features, price and outputdetermination in monopolistic competition, concept of excess capacity, non price competition: selling cost and advertising, cost plus(mark up)pricing theory, various approaches to price and output determination under Oligopoly-classical models of oligopoly: duopoly Cournot model, collusive oligopoly: cartel and price leadership, basic idea of kinked demand curve.	20
2	Distribution Theory (Pricing of Factors) Concepts of factor productivity, Marginal Revenue Product (MRP) and Value of Marginal Product (VMP), pricing of factors in perfect and imperfect market, Marginal productivity theory of distribution, Euler's theorem and product exhaustion problem, technological progress and factorshares in income, some major theories of distribution: Ricardian theory of rent, modern concept of rent, quasi rent, Classical andKeynesian theory of interest, Innovation theory of profit, Knight's theory of profit.	10
3	Market Failure Concept and causes of market failure, correction of market failure,,market failure and market imperfections, market failure vs. government failure, Externalities in production and consumption, Coase Theorem, public goods, semipublic goods, private goods, merit and demerit goods , markets with asymmetric information.	15
4	General Equilibrium, Efficiency and Welfare Concept of Partial and General Equilibrium, Welfare concept, Walrasian General Equilibrium, concept and conditions of Pareto Optimality, perfect competition and Pareto Optimality, perfect market asefficient market: existence and stability of equilibrium under perfect competition,	15
TOTAL		60

Suggested Readings:

Hal R. Varian, *Intermediate Microeconomics, a Modern Approach*, W.W. Norton and Company/Affiliated East-West Press (India), 8th edition, 2010. The workbook by Varian and Bergstrom may be used for problems.
 C. Snyder and W. Nicholson, *Fundamentals of Microeconomics*, Cengage Learning (India), 2010.
 B. Douglas Bernheim and Michael D. Whinston, *Microeconomics*, Tata McGraw- Hill (India), 2009.
 A. Ahsan, C. Pages and T. Roy, 2008, -*Legislation, Enforcement and Adjudication in Indian Labour Markets: Origins, Consequences and the Way Forward*, in D. Mazumdar and S. Sarkar, editors, *Globalization, Labour Markets and*

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Inequality in India, Routledge.

Dipak Mazumdar and Sandeep Sarkar, 2009, -The Employment Problem in India and the Phenomenon of the Missing Middle, Indian Journal of Labour Economics.

J. Dennis Rajakumar, 2011, -Size and Growth of Private Corporate Sector in Indian Manufacturing, Economic and Political Weekly, April.

SEMESTER - V
MJC – 9: PUBLIC FINANCE
(Credit - 5)

Course Outcomes

After the completion of the course, the student will be able to:

CO1: Understand the importance of Public finance

CO2: To understand the implications of fiscal policy

CO3: To analyse the trends and composition of public expenditure in India

CO 4: To understand the importance of Fiscal Federalism

Unit	Topics to be covered	No. of Lectures
1.	Introduction to Public Finance Public Finance: Meaning, Nature, Scope and Importance; difference between Private and Public Finance; Principle of Maximum Social Advantage; Role of State in Public Finance. Fiscal functions of State: Allocation, Distribution, Economic Growth and Stabilisation.	20
2.	Sources of Revenue Taxes, loans, grants and aid – meaning and types, canons/ principles of taxation, problem of justice in taxes, incidence of taxation, taxable capacity; Impact of taxation & tax evasion characteristics of Indian tax system, defects & steps of reform.	14
3.	Public Expenditure and Debt Principle of Public Expenditure; Principle of Public Debt and its Methods of Redemption; Effects of Public Expenditure on Production and Distribution; Public Debt in India.	14
4.	Public Finance in India Sources of Revenue of Central Government, State Government and Local Bodies; Concept and Types of Budget, Fiscal Deficit, Deficit Financing and Deficit Budget, Financial relation between Central and State; Finance commission; Fiscal Policy.	12
	TOTAL	60

Suggested Readings:

J. Hindriks, G. Myles: Intermediate Public Economics, MIT Press, 2006.

H. Rosen, T. Gayer: Public Finance, 9th edition, McGraw-Hill/Irwin, 2009.

Joseph E. Stiglitz, Economics of the Public Sector, W.W. Norton & Company, 3rd edition, 2000

R.A. Musgrave and P.B. Musgrave, Public Finance in Theory & Practice, McGraw Hill Publications, 5th edition, 1989

Harvey Rosen, Public Finance, McGraw Hill Publications, 7th edition, 2005.

A. Ghosh and C. Ghosh: Public Finance, PHI Learning, 2014.

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A.P. Thirlwall, Economics of Development, Palgrave Macmillan, 9th Edition.
M. L. Taneja & R.M. Myer, Economics of Development & Planning, Vishal Publishing Co. Jalandhar-Delhi.

SEMESTER - VII
MJC -13: ADVANCED QUANTITATIVE METHODS
(Credit - 5)

Course Outcomes

After the completion of the course, the student will be able to:

- CO1: Develop analytical and organizational skills.
- CO2: Use mathematical techniques to analyze the economic problems and their effects.
- CO3: Use Differential and Different Equations in Economics.
- CO4: Use multi-Variable Optimization.

Unit	Topics to be covered	No. of Lectures
1.	Integration: Concept and Methods of Integration – Integration by Substitution, Integration by Transformation & Integration by Parts; Application of Integration in Economics.	10
2	Functions of Several real Variables: a. Technique of Partial Differentiation; Second Order Partial Derivatives; Cross Partial Derivatives; Applications of Partial Derivatives in Demand, Utility and Production Analysis. b. Technique of Total Differentials; Second order Total Differentials; Derivatives of Implicit Functions	6
3	Multi-Variable Optimization: a. Maxima and Minima of a Function of two or more than two Variables – Hessian Determinants. b. Unconstrained Optimization and Constrained Optimization with Equality Constraints – Use of Lagrange Multiplier. c. Applications of Unconstrained and Constrained Optimization in Economics – Equilibrium of Firm under Pure Competition.	8
4	Linear Algebra: Basic Concepts of Vector, Types of Vector, Addition of Vectors, Scalar Product of Two Vectors. Matrix and Determinants: Types of Matrices, Addition and Subtraction of Matrices, Multiplication of two Matrices, Transpose and Inverse of a Matrix, Rank of a matrix, Determinant and its Properties, Solution of Simultaneous Equation Models.	8
5	Linear Programming, Input Output Model and Game Theory- Introduction to linear programming, formulation of linear programming problem, concept of duality, solution of linear programming through graphical method. Input-output analysis- meaning and basic concept Game theory- concepts, strategies- dominant strategy, saddle point, zero-sum game.	16
6.	Correlation, Regression and Time Series Analysis a. Partial and Multiple Correlation b. Partial and Multiple Regression c. Time Series Analysis: Components of Time Series and Measurement of Trends	12
	Total	60

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Suggested Readings:

- Jay L. Devore, Probability and Statistics for Engineers, Cengage Learning, 2010.
 John E. Freund, Mathematical Statistics, Prentice Hall, 1992.
 Gupta S.P, Statistical Methods, S.Chand & Sons, New Delhi.
 Richard J. Larsen and Morris L. Marx, An Introduction to Mathematical Statistics and its Applications, Prentice Hall, 2011.
 K. Sydsaeter and P. Hammond, *Mathematics for Economic Analysis*, Pearson Educational Asia:Delhi, 2002.
 Monga, G.S. (1972), *Mathematics and Statistics for Economists*, Vikas Publishing House, New Delhi.
 Chiang. A.C. (1988), *Fundamental Methods of Mathematical Economics*, Mac Graw Hill, New York.
 Allen, R.G.D. (1974), *Mathematical Analysis for Economists*, Mac Millian Press and ELBS, London.
 Dowling, E.T. (1992), *Mathematical Economics 2nd Edition*, Mac Graw Hill, New York.
 Yamune, Taro (1975) *Mathematics for Economists*, Prentice Hall of India, New Delhi.

SEMESTER - VII
MJC -15: BANKING AND FINANCIAL INSTITUTIONS
(Credit - 6)

Course Outcomes

After the completion of the course, the student will be able to:

- CO1: Analyse the different concepts of Money
- CO2: understand the working of financial markets
- CO3: Differentiate between capital and money market
- CO4: Explain the working of banking system

Unit	Topics to be covered	No. of hours
1	Money Money: Kinds, Functions and Significance, Monetary Standards: Metallic Standard, Gold Standard and Paper Standard, Value of money, Measurement of changes in the value of money, Demand for Money: The Classical Approach, Keynesian Approach. Supply of Money: Definitions—Determinants of Money Supply—High Powered Money and Money Multiplier—Indian Currency system.	20
2	Financial Institutions, Markets, Instruments and Financial Innovations Role of financial markets and institutions; problem of asymmetric information—adverse selection and moral hazard; financial crises. Money and capital markets: organization, structure and reforms in India; role of financial derivatives and other innovations.	15
3	Interest Rates Determination; sources of interest rate differentials; theories of term structure of interest rates; interest rates in India.	10
4	Banking System Commercial banking: Nature; structure; functions: The process of credit creation-purpose and limitations, Pre-requisites of a sound commercial banking system; Liabilities and assets of Banks. ATM - Internet Banking - Core banking; A Critical Appraisal of the Progress of Commercial Banking after Nationalization; Recent Reforms in Banking Sector in India.	15

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4	Education Sector in India: An Overview Literacy rates, school participation, school quality measures. Rate of return to education: private and social; quality of education; signaling or human capital; theories of discrimination	15
TOTAL		50

Suggested Readings:

William, Jack, *Principles of Health Economics for Developing Countries*, WorldBank Institute Development Studies, 1999.

World Development Report, *Investing in Health*, the World Bank, 1993.

Ronald G., Ehrenberg and Robert S., Smith, *Modern Labor Economics: Theory and Public Policy*, Addison Wesley, 2005.

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Semester VII

MJC 14- Research Methodology (Social Sciences & Humanities)

Course credit- 05, Full marks- 100

Course Objectives:

CO1: The course intends to familiarize the students of the fundamentals and process of research.

CO2: to acquaint the students with research aptitude in knowledge seeking.

CO3: to enable students to scientifically assess the reliability and validity of facts.

CO4: To empower students to conduct a factual estimate of socially relevant issues in a scientific manner.

Course Outcomes

On completion of the Course, the students can undertake independent research with following Outcomes:

LOC 1: Students will gain skills of scientific analysis.

LOC 2: Students will gain contemporary and interdisciplinary knowledge.

LOC 3: Students will have global understanding of nuances of Research.

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Unit	Topics to be covered	No. of lectures
I	Research- Meaning, Purpose, Significance, Types, Stages of Research, Review of Literature, Ethical issues in Research, Plagiarism.	08
II	Research Design- Meaning and types, Identification of Research Problems and Types of variables. Hypothesis- Nature, Types, Sources, Importance, Characteristics of a good hypothesis.	10
III	Method and Tools of Data Collection Sources of Data- Primary and Secondary, Comparative method, Observation, Interview, Questionnaire, and Schedule Sampling Method- Concept, Types, Purpose, and Rationale	12
IV	Analysis and Processing of Data, Classification, and Tabulation of Data Measures of Central Tendency and Variability, Graphic representation Use of Internet and Computer technologies in Research- MS Word, MS Excel, Power point Presentation, SPSS	10
V	Report Writing and Thesis writing- Objective, Content, Layout, Research proposal/ Synopsis. Referencing- Endnote, Footnote, In-text citation, Index, Diacritical work, Bibliography (MLA and APA formats), Webliography	10
Tutorial		10
Total		60

Suggested readings

1. Ackoff, R.L., (1953), "Design of social research" The University of Chicago Press, Chicago.
2. Goode, W. and Hatt, P.K., (1952), "Methods in Social Research" MC Gracw-Hill.
3. Sharma, V.P. (2013), "Research Methodology" PanchsheelPrakashan, Jaipur.
4. Singh, A.K., "Test Measurements and Research Methods in Behavioural Sciences" Bharti Bhavan Publication.
5. मिश्रा , जयदेव : ऐतिहासिक अनुसन्धान, काशी प्रसाद जायसवाल शोध संस्थान , पटना।
6. आहूजा, राम: सामाजिक अनुसन्धान, रावत प्रकाशन, जयपुर।
7. राणा सुनील कुमार सिंह - सामाजिक शोध की पद्धति।
8. सावित्री सिन्हा: अनुसन्धान का स्वरूप, नेशनल पब्लिशिंग हाउस , दिल्ली।
9. विनय मोहन शर्मा: शोध प्रविधि , नेशनल पब्लिशिंग हाउस , दिल्ली।
10. सावित्री सिन्हा: अनुसन्धान की प्रक्रिया , विजयेंद्र स्नातक, हिंदी अनुवाद परिषद्।

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