

# Department of Economics

Binod Bihari Mahto Koyalanchal University

**Syllabus for Bachelor of Arts in Economics**

**Four Year Under Graduate Programme (FYUGP)**

**As per provisions of NEP- 2020**



**Academic Session:**

**w.e.f. 2022-2026**



**Members of Board of Studies**  
**Department of Economics**

Four-Year Undergraduate Honours/Research Program under NEP

As per the notification no. BBM KU/R/1287/2022 of BBM KU, Board of Studies (BOS) of Economics Department is comprising the following members:

Chairperson : Dr. Pushpa Kumari  
Dean Social Science &  
Head of Department of Economics  
BBMK University, Dhanbad

*Pushpa Kumari*

External Member: Mr. S.R. Roy (Retd.)  
Reader, Dept. of Economics,  
R.S. More College, Govindpur (VBU, Hazaribagh)

*S.R. Roy*

Internal Members : 1. Dr. A.K. Maji  
Associate Prof. Dept. Of Economics  
CCDC (BBMKU, Dhanbad )  
2. Dr. Sanjay Prasad  
Principal, G.N. College, Dhanbad  
3. Dr. B. Kumar  
Associate prof. Dept. of Economics  
R.S.P. College, Jhariya  
4. Dr. Mun Mun Sharan  
Assistant prof. University Dept. of Economics  
BBMKU, Dhanbad

*A.K. Maji*

*Sanjay Prasad*

*B. Kumar*

*Mun Mun Sharan*

Invited members :

1. Shobha Sarita  
Assistant prof. Dept of Economics ( SSLNT M College)
2. Rajni Sukeshi Bara  
Assistant prof., Dept. of Economics (R.S.P. College, Dhanbad)
3. Manmohan Singh  
Assistant prof. Dept. of Economics (Sindri College, Sindri)
4. Dr. Mita Malkhandi  
Assistant prof. (C) (SSLNTM, College, Dhanbad)
5. Sadhna Singh  
Assistant prof. (G.N. College, Dhanbad)

*Shobha Sarita*

*R. Bara*

*Mita Malkhandi*



## Department of Economics

### Semester-Wise Title of the Papers in Four Year Under Graduate Programme

ECN-IRC	Introductory Economics	Theory	Credits 3
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### Major Papers

Year	Semester	Paper Code	Title of the Paper	Theory/Practical	Credits
1 <sup>st</sup>	I	MJ-1	Microeconomics	Theory	6
	II	MJ-2	Macroeconomics & Money Banking	Theory	6
2 <sup>nd</sup>	III	MJ-3	Statistics	Theory	6
	IV	MJ-4	Indian Economy & Policies	Theory	6
		MJ-5	Mathematical Economics	Theory	6
3 <sup>rd</sup>	V	MJ-6	History of Economic Thought	Theory	6
		MJ7	Growth & Development	Theory	6
	VI	MJ-8	Environmental Economics	Theory	6
		MJ-9	Public Finance & International Trade	Theory	6

### Advance Major Paper

4 <sup>th</sup>	VII	AMJ-1	A. Advance Mathematical Economics B. Principles and leading Issues in Indian Agricultural C. Indian Banking and Financial System	Theory	6
		AMJ-2	A. Advanced Statistics for Economics B. Industrial & Labour Economics C. Economics of Social Sector	Theory	6
	VIII	AMJ-3	A. Introductory Econometrics B. Demography C. Jharkhand Economy	Theory	6
		AMJ-4	Project (Dissertation)	Field Work	6

### Minor Papers

Year	Semester	Paper Code	Title of the Paper	Theory	Credits
2 <sup>nd</sup>	IV	MN-1	Intermediate Economics	Theory	6
3 <sup>rd</sup>	V	MN-2	Money and Banking	Theory	6
3 <sup>rd</sup>	VI	MN-3	Indian Economy	Theory	6

*Rushika Kumari*

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## Introductory Regular Course

ECN-IRC	Introductory Economics	Credits 03, Lectures 45
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Credits 03, Lectures 45, Marks:25 (MSE)+ 75(ESE)=100

Pass Marks:(MSE:08+ESE:32) =40

Instruction to Question Setter for Mid Semester Examination (MSE):

1½ Hrs. One semester internal Assessment (SIA) of 25 marks

End Semester Examination (ESE): Full Marks 75, Time 3Hrs.

Five Questions have to be answered out of total of nine Questions of 15 marks each. Question no1 is compulsory. Question No.1 A will contain 05 MCQ of 01 mark each. Question No.1B will comprise of 02 short answer type questions of 05 marks each (to be answered in about 100 words each). Any four questions from 2 to 9 are to be answered. Question nos.2 to 8 shall be of descriptive type of 15 marks each. Question no 9 will be of short note type 4 questions, each carrying 7.5 marks in which any two should be answered ( $7.5 \times 2 = 15$ ).

### Introductory Economics

#### Unit 1: Introduction

- 1.1 Subject Matter and Methods of Economics
- 1.2 Nature and Scope of Economics
- 1.3 Central Economic Problems; Production Possibility Curve

#### Unit 2: Consumer Behaviour

- 2.1: Cardinal Utility Analysis: Total and marginal Utility; Law of Diminishing Marginal Utility; Law of Equi-marginal Utility, Consumer's Equilibrium
- 2.2: Ordinal Utility Analysis: Indifference Curve and its Properties, Budget Constraints, Consumer's Equilibrium, Price Effect, Income and Substitution Effect
- 2.3: Individual & Market Demand and Supply; Determinants of Individual Demand and Supply
- 2.4: Law of Demand and Supply, Shifts in Demand and Supply

#### Unit 3: Money & Inflation

- 3.1 Money: Meaning and Functions of Money, Role of Money in Capitalistic, Socialistic & Mixed Economies
- 3.2 Quantity Theory of Money: Cash Transactions Approach and Cash Balance Approach
- 3.3 Definition, Types, Causes and Effects of Inflation
- 3.4 Measures to Control Inflation

#### Unit 4 Banking

- 4.1: Objectives and Functions of Central Bank
- 4.2: Quantitative and Qualitative Methods of Credit Control
- 4.3: Meaning, Types and Functions of Commercial Banks







**Unit 5 Overview of Indian Economy**

- 5.1 Nature, structure and feature of Indian Economy
- 5.2 Natural Resources- Land, Water, Forest and Minerals resources of India
- 5.3 Progress and trend of Indian Economy; Growth rate, GDP, PCI
- 5.4 Demographic Features of Indian Economy

**Suggested Readings-**

1. Karl E. Case and Ray C Fair, Principles of Economics, Pearson Education Inc.
2. N. Gregory Mankiw, Economics: Principles and Applications, Centage Learning India Private Limited.
3. B. Douglas Bernheim and Michael D. Winston, Micro Economics, Tata McGrawHill, India.
4. Alfred W. Stonier and Douglas C. Hague, A Textbook of Economic Theory, E L BS and Longman Gr. Ltd.
5. H.L. Ahuja, Advanced Economic Theory, S. Chand Publication, New Delhi
6. M.L.Seth, Micro Economics, Lakshmi Narayan Publication, Agra.
7. Micro economics-Dr. J.P. Mishra Hn. Ed.- Sahitya Bhavan Publication
8. The Economics of Money, Banking and Financial Markets- Frederic S Mishkin ( Pearson)
9. A Treatise on Money- J M Keynes
10. Monetary Economics- Institutions, Theory and Policy- T.T. Sethi ( S.Chand&Company)
11. Monetary Economics- M.L.Seth Hn. Ed. (Lakshmi Narayan Agarwal, Agra)
12. Financial Stability Report- RBI, Monetary Policy Report- RBI
13. Goyal, Ashima (2015): A Concise Handbook of Indian Economy in the 21st century.
14. Puri, V.K. and Mishra, S.K. (2018): Indian Economy, Himalaya Publishing House.(Hindi/English)
15. Dutt, R. and Mahajan, B.D. (2018): Indian Economy, S. Chand Publications, New Delhi. (Hindi/English)
16. Yojana (Hindi/English)- A Monthly Magazine.
17. Kurukshetra (Hindi/English)- A Monthly Journal of Rural Development.









## Semester 1

ECN-MJ-01-T	Micro Economics	Credits 06, Lectures 90
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Credits 06, Lectures 90, Marks: 25 (MSE) + 75 (ESE) = 100

Pass Marks: (MSE: 08 + ESE: 32) = 40

Instruction to Question Setter for Mid Semester Examination (MSE):

1 ½ Hrs. One Semester internal Assessment (SIA) of 25 marks

End Semester Examination (ESE): Full Marks 75, Time 3Hrs.

Five Questions have to be answered out of total of nine Questions of 15 marks each. Question no 1 is compulsory. Question No. 1 A will contain 05 MCQ of 01 mark each. Question No. 1B will comprise of 02 short answer type questions of 05 marks each (to be answered in about 100 words each). Any four questions from 2 to 9 are to be answered. Question nos. 2 to 8 shall be of descriptive type of 15 marks each. Question no 9 will be of short note type 4 questions, each carrying 7.5 marks in which any two should be answered ( $7.5 \times 2 = 15$ ).

### Unit 1: Consumer Behavior & Demand Analysis

- 1.1: Cardinal Utility Analysis: Total and Marginal Utility; Law of Diminishing Marginal Utility; Law of Equi Marginal Utility, Consumer's Equilibrium
- 1.2: Ordinal Utility Analysis: Indifference Curve and its Properties, Budget Constraints, Consumer's Equilibrium, Price Effect, Income and Substitution Effect
- 1.3: Individual & Market Demand; Determinants of Individual Demand
- 1.4: Law of Demand; Factors Influencing Demand, Changes & Shifts in Demand, Consumer's Surplus
- 1.5: Elasticity of Demand: Price; Income and Cross Elasticities. Measurement of Elasticity of Demand, Elasticity of Substitution, Relationship between Price elasticity, Income Elasticity and Substitution Elasticity.

### Unit 2: Theory of Cost and Production

- 2.1: Production Function: Short run and Long Run, Law of Variable Proportions, Returns to Scale, Economies of Scale, Homogeneous Production Function; Cobb-Douglas Production Function and its Properties.
- 2.2: Concepts of Cost & their inter-relationship: Short Run and Long Run
- 2.3: Concepts of Revenue & their inter-relationship
- 2.4: Isoquant: Properties; Iso-Cost Line; Producer's Equilibrium
- 2.5: Individual & Market Supply; Changes & Shifts in Supply, Elasticity of Supply

### Unit 3: Market Structure

- 3.1: Forms of Market: Perfect and Imperfect Markets; their features.
- 3.2: Equilibrium of the Firm and Industry (Short Run and Long Run) under Perfect Competition; Derivation of Supply Curve of a firm in different cost conditions.
- 3.3: Monopoly: Price and Output Determination [Short Run and Long Run]; Price Discrimination;
- 3.4: Monopolistic Competition: Price and Output Determination (Individual and Group Equilibrium); Importance of Selling Costs.

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3.5 : Oligopoly: Meaning & Characteristics, Kinked Demand Curve, Duopoly: Meaning and Characteristics; Non-Collusive Cournot model

**Unit 4: Factor Pricing**

- 4.1: Marginal Productivity Theory of Distribution; Adding-Up Problem [Euler's Theorem].
- 4.2: Theories of Wage determination: Demand and Supply Theory; Collective Bargaining.
- 4.3: Rent: Ricardian and Modern Theory.
- 4.4: Interest: Classical and Keynesian Theories.
- 4.5: Profit: Innovation, Risk and Uncertainty Theories.

**Unit 5: Welfare Economics**

- 5.1 : Welfare Economics: Individual and Social Welfare, Three Concepts of Social Welfare, Role of Value Judgements in Welfare Economics.
- 5.2 : Conditions of Pareto Optimum: Pareto Criterion of Social Welfare, Marginal Conditions of Pareto Optimum.
- 5.3 : Classical Welfare Economics: Pigou.
- 5.4: Arrow's Possibility theorem.

**Suggested Readings:**

1. Karl E. Case and Ray C Fair, Principles of Economics, Pearson Education Inc.
2. N. Gregory Mankiw, Economics: Principles and Applications, Centage Learning India Private Limited.
3. Joseph E. Stiglitz and Carl E. Walsh, Economics, W.W. Norman & Company.
4. C. Snyder and W. Nicholson, Fundamentals of Micro Economics, Cengage Learning, India.
5. B. Douglas Bernheim and Michael D. Winston, Micro Economics, Tata McGrawHill, India.
6. Alfred W. Stonier and Douglas C. Hague, A Textbook of Economic Theory, E L BS and Longman Gr. Ltd.
7. H.L. Ahuja, Advanced Economic Theory, S. Chand Publication, New Delhi
8. M.L.Seth, Micro Economics, Lakshmi Narayan Publication , Agra.

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Semester-II

ECN-MJ-02-T	Macroeconomics & Money Banking	Credits 06, Lectures 90
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Credits 06, Lectures 90, Marks:25 (MSE)+ 75(ESE)=100

Pass Marks:(MSE:08+ESE:32) =40

Instruction to Question Setter for Mid Semester Examination (MSE):

1 ½ Hrs. One semester internal Assessment (SIA) of 25 marks

End Semester Examination (ESE): Full Marks 75, Time 3Hrs.

Five Questions have to be answered out of total of nine Questions of 15 marks each. Question no1 is compulsory. Question No.1 A will contain 05 MCQ of 01 mark each. Question No.1B will comprise of 02 short answer type questions of 05 marks each (to be answered in about 100 words each). Any four questions from 2 to 9 are to be answered. Question nos.2 to 8 shall be of descriptive type of 15 marks each. Question no 9 will be of short note type 4 questions, each carrying 7.5 marks in which any two should be answered (7.5x2=15).

**Unit 1. National income accounting**

- 1.1 Concept of circular flow; concepts of GDP and national income; national income and its related aggregates;
- 1.2 Measurement of national income; nominal and real income; limitations of GDP concept.
- 1.3 Concept of social accounting. Environmental concerns in national income; Concept of green accounting.

**Unit 2. Theory of output and employment**

- 2.1 Say's law of market and Classical theory of employment: critical analysis and Keynes' objections.
- 2.2 Principle of Effective Demand: Equality and Equilibrium of Aggregate Demand (AD) and Aggregate Supply (AS); Paradox of Thrift.
- 2.3 Consumption Function and Savings Function: APC and MPC; APS and MPS; Factors affecting Consumption Function; Psychological law of consumption
- 2.4 Investment Function: Autonomous and Induced Investment; MEC and Rate of Interest.
- 2.5 Investment Multiplier and its Effectiveness in Less Developed Countries.
- 2.6 Theory of Acceleration, Simple IS-LM model

**Unit 3. Trade Cycles**

- 3.1 Nature and characteristics of Trade Cycle
- 3.2 Hawtrey's Monetary Theory of Trade Cycle
- 3.3 Hayek's Over-Investment Theory of Trade Cycle.
- 3.4 Keynesian Views on Trade Cycle

**Unit 4. Money**

- 4.1 Meaning and functions of money. Concept of money in a modern economy
- 4.2 Determination of demand for and supply of money.
- 4.3 Quantity theory of money: Cash -Transactions approach and Cash -Balance approach;
- 4.4 Keynesian theory of money and prices; Liquidity preference and rate of i

4.5 Inflation Concept; Demand-pull and Cost-push inflation; Concept of inflationary Gap; Effects of inflation; Measures to control inflation; Phillips curve.

**Unit 5. Banking system in India**

- 5.1 Meaning, Type, Functions and Principles of Commercial Banking; Structure and Balance Sheet of a Commercial Bank; Process of Credit Creation
- 5.2 Objectives, Functions of Central Bank; Limitations of Central Bank with reference to RBI
- 5.3 Supply of Money: Concept, Components and Aggregates, Money Multiplier
- 5.4 Quantitative and Qualitative Methods of Credit Control.
- 5.5 Evaluation of Banking Sector since Independence; Critical Appraisal of Commercial Banking after Nationalization; Reforms in the Banking Sector

**Suggested Reading-**

1. Keynes and Post- Keynesian Economics- R.D. Gupta , Kalyani Publishers, New Delhi
2. Macro Economic Theory and Policy - William H. Branson, A.I.T.B.S. Publishers, New Delhi
3. Macro Economic Analysis - Edward Shapiro, Galgotia Publications, New Delhi
4. Money & Banking : Theory with Indian Banking - T. N. Hajela , Ane Books India
5. Macro Economic Analysis - K.C. Rana & K.N. Verma, Vishal Publishing House, Jalandhar
6. N, Gregory Mankiw, macroeconomics, Wooth Publishers, 7th edition, 2010.
7. Olivier Blanchard, macroeconomics, Pearson Education, Inc., 5th edition, 2009.
8. Andrew B. Abel and Ben S. Bernanke, Macroeconomics, Pearson Education, Inc., 7th edition, 2011
9. The Economics of Money , Banking and Financial Markets- Frederic S Mishkin ( Pearson)
10. A Treatise on Money- J M Keynes
11. Financial Markets, Banking and Monetary Policy- Thomas D Simpson
12. Monetary Economics- Institutions, Theory and Policy- T.T. Sethi ( S.Chand & Company)
13. Monetary Economics- M.L. Sethi Hn. Ed. (Lakshmi Narayan Agarwal, Agra)
14. Financial Stability Report- RBI
15. Monetary Policy Report- RBI

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**Semester-III**

<b>ECN-MJ-03-T</b>	<b>Introduction to Statistics</b>	<b>Credits 06, Lectures 90</b>
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Credits 06, Lectures 90, Marks:25 (MSE)+ 75(ESE)=100

Pass Marks:(MSE:08+ESE:32) =40

Instruction to Question Setter for Mid Semester Examination (MSE):

1 ½ Hrs. One semester internal Assessment (SIA) of 25 marks

End Semester Examination (ESE): Full Marks 75, Time 3Hrs.

Five Questions have to be answered out of total of nine Questions of 15 marks each. Question no1 is compulsory. Question No.1 A will contain 05 MCQ of 01 mark each. Question No.1B will comprise of 02 short answer type questions of 05 marks each (to be answered in about 100 words each). Any four questions from 2 to 9 are to be answered. Question nos.2 to 8 shall be of descriptive type of 15 marks each. Question no 9 will be of short note type 4 questions, each carrying 7.5 marks in which any two should be answered (7.5x2=15).

**Unit 1: Introduction to Statistics**

- 1.1 Definition and Scope of Statistics
- 1.2 Collection of Data – Primary and Secondary Data ; Methods of collecting Primary and Secondary Data
- 1.3 Methods of Collecting Primary Data – Census and Sampling Methods; Methods of Sampling
- 1.4 Classification and Tabulation of Data
- 1.5 Presentation of Data - Tabular; Diagrammatic and Graphic

**Unit 2: Univariate Analysis**

- 2.1 Measures of Central Tendency–Arithmetic Mean ,Median ,Mode,Geometric Mean and Harmonic Mean
- 2.2 Measures of Dispersion – Range, Mean Deviation, Standard Deviation, Coefficient of Variation and Quartile Deviation
- 2.3
- 2.4 Skewness and Kurtosis

**Unit 3: Bivariate Analysis**

- 3.1 Correlation – Definition; Types; Karl Pearson and Rank Correlation
- 3.2 Coefficient; Properties of Correlation
- 3.3 Regression – Lines of Regression; Least Squares Method and
- 3.4 Interpretation of Regression Coefficients

**Unit 4: Time Series and Index Number**

- 4.1 Time Series Analysis – Concept; Component; Trend Line and Trend
- 4.2 Values by Least Squares Method
- 4.3 Index Numbers -Concept; Price relative; Quantity relative; Weighted Index Numbers; Problems in the Construction of Index Numbers and Limitations of Index Numbers
- 4.4 Methods of Construction of Index Numbers –Laspeyre, Paasche, Fisher and Consumer Price Index
- 4.5 Tests for Adequacy of Index Number – Time Reversal Test & Factor, Reversal Test

**Unit 5: Probability**

- 5.1 Basic Concepts – Random Experiments, Sample Space and Events
- 5.2 Definition of Probability – Classical, Statistical and Axiomatic
- 5.3 Rules of Probability – Addition and Multiplication Theorem; Bayes Theorem

**Suggested Readings:-**

1. Statistics For Economics , N.M. Shah, Arya Publications
2. Schaum's Outline of Theory and Problems of Statistics , Murray R. Spiegel, Larry J. Stephens , Tata McGraw –Hill Edition
3. Basic Statistics , B.L. Agarwal, New Age International Publishers
4. Quantitative Techniques ( Hindi Edition) , Dr. B.N. Gupta , SBPD Publication
5. Business Statistics , V.C. Sinha and Alok Gupta , SPBD Publication
6. Fundamentals of Statistics , S.C. Gupta , Himalaya Publishing House

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### Semester-IV

ECN-MJ-04-T	Indian Economy & Policies	Credits 06, Lectures 90
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Credits 06, Lectures 90, Marks:25 (MSE)+ 75(ESE)=100

Pass Marks:(MSE:08+ESE:32) =40

Instruction to Question Setter for Mid Semester Examination (MSE):

1 ½ Hrs. One semester internal Assessment (SIA) of 25 marks

End Semester Examination (ESE): Full Marks 75, Time 3Hrs.

Five Questions have to be answered out of total of nine Questions of 15 marks each. Question no 1 is compulsory. Question No.1 A will contain 05 MCQ of 01 mark each. Question No.1B will comprise of 02 short answer type questions of 05 marks each (to be answered in about 100 words each). Any four questions from 2 to 9 are to be answered. Question nos.2 to 8 shall be of descriptive type of 15 marks each. Question no 9 will be of short note type 4 questions, each carrying 7.5 marks in which any two should be answered (7.5x2=15).

#### Unit 1 Framework of Indian Economy

- 1.1 Nature, structure and feature of Indian Economy
- 1.2 Natural Resources- Land, Water, Forest and Minerals resources of India.
- 1.3 Progress and trend of Indian Growth rate, GDP, PCI

#### Unit 2 Demography & Human Development

- 2.1 India's Population: Size, and Growth Trends, Current Census
- 2.2 Demographic Transition; Population and Economic Development, Remedies for Rapid Growth of Population
- 2.3 Problems Faced by Indian Economy-Poverty, Unemployment, Inequality and its solutions.
- 2.4 Essential Component of Human Development, Health and Malnutrition.

#### Unit 3 India & Agriculture

- 3.1 Role of Agriculture in Indian Economy, Trend in Agriculture Production and Productivity, Cropping Pattern in India.
- 3.2 Green revolution, Impact of Green Revolution.
- 3.3 New Agriculture Policy in India, Trend in Agricultural prices.
- 3.4 The Problem of Food Security, National Food Security Act, PDS system and Its Impact

#### Unit 4 Indian Industry & Foreign Trade

- 4.1 Trends in Industrial Production, Problems of Industrial Development in India.
- 4.2 The Role and Performance of Small and Cottage Industries in Indian Economy & Problems Faced by them.
- 4.3 New Industrial Policy, Appraisal of New Industrial Policy, Privatization and Disinvestment Policy in India, Corporate Social Responsibility.
- 4.4 Composition of Foreign Trade, direction of Trade; India's Balance of Payment Situation since 1991, Challenges and outlook.
- 4.5 Foreign Trade Policy, Need for Foreign Capital, Foreign Investment Inflows.



**Unit 5 Recent Initiative of Development**

- 5.1 NITI Aayog; Organization & Function
- 5.2 Aatm Nirbhar Bharat; Prospect & Challenges
- 5.3 Make in India; Development of Social and Economic Infrastructure
- 5.4 Jan Dhan Yojana, NRLM, MNREGA

**Suggested Readings-**

1. Bhagawati, J (2012): Reform and Economic Transformation in India.
2. Brahmananda, P.R. and Panchmukhi, V.R. (2001) : Development Experience in Indian Economy: Inter State Perspective, Bookwell , Delhi.
3. Goyal, Ashima (2015): A Concise Handbook of Indian Economy in the 21st century.
4. Dantwala, M.L. (1996): Dilemmas of Growth The Indian Experience, Oxford University Press, New Delhi.
5. Puri, V.K. and Mishra, S.K. (2018): Indian Economy, Himalaya Publishing House.(Hindi/English)
6. Dutt, R. and Mahajan, B.D. (2018): Indian Economy, S. Chand Publications, New Delhi. (Hindi/English)
7. Yojana( Hindi/English)- A Monthly Magazine.
8. Kurukshetra (Hindi/English)- A Monthly Journal of Rural Development.
9. Economic Survey, Govt. of India (Hindi/English)

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### Semester-IV

ECN-MJ-05-T	INTRODUCTORY MATHEMATICS FOR ECONOMICS	Credits 06, Lectures 90
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Credits 06, Lectures 90, Marks: 25 (MSE) + 75 (ESE) = 100

Pass Marks: (MSE: 08 + ESE: 32) = 40

Instruction to Question Setter for Mid Semester Examination (MSE):

1 ½ Hrs. One semester internal Assessment (SIA) of 25 marks

End Semester Examination (ESE): Full Marks 75, Time 3Hrs.

Five Questions have to be answered out of total of nine Questions of 15 marks each. Question no 1 is compulsory. Question No.1 A will contain 05 MCQ of 01 mark each. Question No.1B will comprise of 02 short answer type questions of 05 marks each (to be answered in about 100 words each). Any four questions from 2 to 9 are to be answered. Question nos. 2 to 8 shall be of descriptive type of 15 marks each. Question no 9 will be of short note type 4 questions, each carrying 7.5 marks in which any two should be answered ( $7.5 \times 2 = 15$ ).

#### Unit 1: Basic Concepts

- 1.1 Set Theory: Concept; Types; Set operations; Use of Venn Diagrams
- 1.2 Functions: Concept; Types of Functions and its Graphs.
- 1.3 Equations: Concept; System of Equations; Economic Application of Equation

#### Unit 2: Limit and Differentiation

- 2.1 Limit: Concept; Rules
- 2.2 Differentiation: Nature; Rules; Techniques of Simple differentiation
- 2.3 Maxima and Minima: First Order and Second Order Conditions; Point of Inflection; Application of Maxima and Minima in Economics : Equilibrium of the Firm under Perfect Competition and Monopoly, Elasticity
- 2.4 Inter-Relationships among Total, Marginal and Average Cost and Revenues.

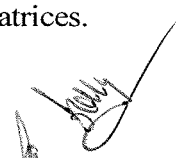
#### Unit 3: Calculus and Multi-Variable Functions

- 3.1: Functions of Several Variables and Partial Derivatives.
- 3.2: Rules of Partial Differentiation; Second Order Partial Derivatives.
- 3.3: Application of Partial Derivatives in Economics- Euler's Theorem and Properties of Cobb-Douglas Production Function

#### Unit 4: Integration

- 4.1 Integration of a Function: Concept and Rules of Integration; Definite and Indefinite Integrals.
- 4.2 Economic Application of Integrals: Obtaining Total Function from Marginal Function of Revenue, Cost and Product.

#### Unit 5: Matrix and Determinants

- 5.1 Various Types of Matrices.
  - 5.2 Matrix Operations.
  - 5.3 Determinants.
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5.4 Inverse of a Matrix, Rank of Matrix

5.5 Cramer's Rule for Solution of Linear Non-homogenous Equation System

**Suggested Readings-**

- 1) Mathematical Analysis for Economics, R.G. D. Allen. , All India Publishers and Distributors
- 2) Introduction to Mathematical Economics , Edward T. Dowling , McGraw Hill
- 3) Elementary Mathematics in Economics , Mehta & Madnani, Lakshmi Narain Agarwal
- 4) Mathematical Economics ( Hindi Edition ) , Dr. J.P. Mishra, Sahitya Bhawan Publications
- 5) Mathematical Methods for Economics – I (IGNOU), SCP Panel of Experts, Shri Chakradhar Publication Pvt. Ltd.

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**Semester-V**

<b>ECN-MJ-06-T</b>	<b>History of Economic Thought</b>	<b>Credits 06, Lectures 90</b>
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Credits 06, Lectures 90, Marks:25 (MSE)+ 75(ESE)=100

Pass Marks:(MSE:08+ESE:32) =40

Instruction to Question Setter for Mid Semester Examination (MSE):

1 ½ Hrs. One semester internal Assessment (SIA) of 25 marks

End Semester Examination (ESE): Full Marks 75, Time 3Hrs.

Five Questions have to be answered out of total of nine Questions of 15 marks each. Question no1 is compulsory. Question No.1 A will contain 05 MCQ of 01 mark each. Question No.1B will comprise of 02 short answer type questions of 05 marks each (to be answered in about 100 words each). Any four questions from 2 to 9 are to be answered. Question nos.2 to 8 shall be of descriptive type of 15 marks each. Question no 9 will be of short note type 4 questions, each carrying 7.5 marks in which any two should be answered (7.5x2=15).

**Unit 1: Early Period**

- 1.1 Mercantilism.
- 1.2 Physiocracy.

**Unit 2: Development of Classical Economics**

- 2.1 Adam Smith: Division of Labour, Theory of Value, Capital Accumulation, Distribution, Views on Trade, Economic Progress.
- 2.2 David Ricardo: Value, Theory of Rent, Distribution, Ideas on Economic Development and International Trade.
- 2.3 T.R. Malthus: Theory of Population, Theory of Gluts.
- 2.4 Karl Marx: Dynamics of Social Change, Theory of Value, Surplus Value, Profit and Crisis of Capitalism.

**Unit 3: The Marginalist Revolution**

- 3.1 Jevons and Walras.
- 3.2 Neo-Classical Thought: Alfred Marshall.

**Unit 4: The Keynesian Revolution**

- 4.1 Historical Background of Keynesian Revolution and the Great Depression.
- 4.2 Economic ideas of J. M. Keynes- Under Employment Equilibrium, Inflation and Role of Monetary Policy.

**Unit 5: Indian Economic Thought**

- 51 Economic ideas of Kautilya
- 52 Economic Ideas of Mahatma Gandhi.
- 53 Economic Ideas of Amartya Sen
- 54 Economic ideas of Abhijit Banerjee

**Suggested Readings-**

1. M.L. Jhingan, *Antarrashtriya Arthshashtra*, Vikas Publication.
2. R. Black house, *History of modern economic analysis (Basil black welloxford)*
3. Abhijit V. Banerjee & Esther Bufo, *Poor Economics, Public Affairs*
4. Amiya Kumar Dasgupta, *A History of Indian Economic Thought*, Oxford University Press
5. M.L. Jhingan, *History of Economic Thought*, Vrinda Publication

**Semester-V**

<b>ECN-MJ-07-T</b>	<b>Growth &amp; Development</b>	<b>Credits 06, Lectures 90</b>
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Credits 06, Lectures 90, Marks:25 (MSE)+ 75(ESE)=100

Pass Marks:(MSE:08+ESE:32) =40

Instruction to Question Setter for Mid Semester Examination (MSE):

1 ½ Hrs. One semester internal Assessment (SIA) of 25 marks

End Semester Examination (ESE): Full Marks 75, Time 3Hrs.

Five Questions have to be answered out of total of nine Questions of 15 marks each. Question no1 is compulsory. Question No.1 A will contain 05 MCQ of 01 mark each. Question No.1B will comprise of 02 short answer type questions of 05 marks each (to be answered in about 100 words each). Any four questions from 2 to 9 are to be answered. Question nos.2 to 8 shall be of descriptive type of 15 marks each. Question no 9 will be of short note type 4 questions, each carrying 7.5 marks in which any two should be answered (7.5x2=15).

**Unit 1 : Concept of Growth and Development**

- 1.1 Concept of Economic Growth and Economic Development, Measures of Economic Growth; Indicators of Economic Development, Factors affecting Growth and Development
- 1.2 Distinction between Economic Growth and Development, Main obstacles to Economic Development
- 1.3 Measures of Development: HDI, GDI, GEM, International Comparison with reference to India.

**Unit 2 : Growth Models**

- 2.1 The Harrod-Domar Model
- 2.2 Kaldor Model of Growth
- 2.3 Solow Model
- 2.4 The Mahalanobis Model

**Unit 3 : Leading Issues of Poverty, Inequality in Development**

- 3.1 Meaning of Poverty; Absolute & Relative Poverty
- 3.2 Measurement of Poverty : Income based measures and Poverty Line, Non-monetary Measures (PQLI)
- 3.3 Concept of Economic Inequality, Criteria of Economic Inequality;
- 3.4 Measurement of Inequality: The Lorenz Curve; GINI Coefficient

**Unit 4 : Macro Economic Policy & Economic Development**

- 4.1 Role of Monetary Policy in Promoting Economic Development.
- 4.2 Fiscal Policy and Economic Development
- 4.3 External Resources in Development : FDI, Aid versus Trade; Technology Inflow; MNC and Economic Growth.

**UNIT 5: Planning and Development**

- 5.1 Economic Planning: Planning Commission vs NITI Aayog

*ECONOMICS (Honours) NEP Syllabus BBMK University*

- 5.2 Five Year Plans in India: Strategy, Objectives, Achievements and Problems
- 5.3 Economic Reforms in India since 1991- An Appraisal of Economic Reforms
- 5.4 10th, 11th, 12th and 13th Five Year Plans

**Suggested Readings-**

1. Ray, Debraj- Development Economics, Oxford University Press
2. Meir, G.M.-Leading Issues in Economic Development
3. Basu- Analytical Development Economics
4. Amartya Sen- Development as freedom, Oxford University Press, 2000
5. Lekhi, R K , Joginder Singh- The Economics of Development and Planning, Kalyani publishers
6. Kuznets, S (1995)- Economic Growth & Economic Inequality, American Review, vol. 45
7. Arthik Samvridhi evam Vikas, Sahitya Bhawan Publications

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**Semester-VI**

<b>ECN-MJ-08-T</b>	<b>Environmental Economics</b>	<b>Credits 06, Lectures 90</b>
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Credits 06, Lectures 90, Marks:25 (MSE)+ 75(ESE)=100

Pass Marks:(MSE:08+ESE:32) =40

Instruction to Question Setter for Mid Semester Examination (MSE):

1 ½ Hrs. One semester internal Assessment (SIA) of 25 marks

End Semester Examination (ESE): Full Marks 75, Time 3Hrs.

Five Questions have to be answered out of total of nine Questions of 15 marks each. Question no 1 is compulsory. Question No.1 A will contain 05 MCQ of 01 mark each. Question No.1B will comprise of 02 short answer type questions of 05 marks each (to be answered in about 100 words each). Any four questions from 2 to 9 are to be answered. Question nos.2 to 8 shall be of descriptive type of 15 marks each. Question no 9 will be of short note type 4 questions, each carrying 7.5 marks in which any two should be answered (7.5x2=15).

**Unit 1 : Introduction**

- 1.1 Meaning and Scope of Environmental Economics.
- 1.2 Meaning and characteristics of Environmental goods.
- 1.3 Renewable and Non-renewable resources.
- 1.4 Common Property Resources.
- 1.5 Economic Development & Environment- Two Way Linkage

**Unit 2: Environmental Externalities**

- 2.1 Externalities and market failure; Negative & Positive Externalities.
- 2.2 Pareto Optimality and market failure in the presence of externalities.
- 2.3 Pigouvian taxes and subsidies.
- 2.4 Sustainable Development- concept and indicators.

**Unit 3: Environmental Issues**

- 3.1 Environmental Degradation- Land, Forest and Natural Resource degradation;
- 3.2 Causes, Effects and Solutions to Environmental Degradation.
- 3.3 Problems of Pollution- Air & Water Pollution.

**Unit 4: Environmental Policies**

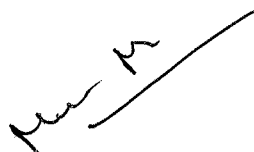
- 4.1 National Environment Policy, Water & Forest Policy
- 4.2 WTO & The Environment.
- 4.3 Climate Change and International Agreements.
- 4.4 Green GDP; Carbon Foot Print; Environmental Green Accounting.





**Suggested Readings-**

1. Ganesa murthy, V.S. Environmental Economics in India, New Century Publication
2. Bhattacharya, R.N. Environmental Economics-An Indian Perspective, Oxford University Press
3. T.Eugine, Environmental Economics, Vrinda Publication
4. Baumal, W.J. & W.E.Oates, The Theory of Environmental Policy, Cambridge University Press
5. Charles D. Kolstad, Intermediate Environmental Economics, Oxford University Press
6. N. Hanley, Jason F, & Shogren, Environmental Economics in theory and practice, Macmillan Education UK
7. Awasthi N. M, Paryavaran Adhyayan (Hindi), Laxmi Narayana Agarwal, Agra
8. Muhtukrishnan Subhashini, Economics of Environment, Mediamatics



**Semester-VI**

<b>ECN-MJ-09-T</b>	<b>Public Finance &amp; International Trade</b>	<b>Credits 06, Lectures 90</b>
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Credits 06, Lectures 90, Marks: 25 (MSE) + 75 (ESE) = 100

Pass Marks: (MSE: 08 + ESE: 32) = 40

Instruction to Question Setter for Mid Semester Examination (MSE):

1 ½ Hrs. One semester internal Assessment (SIA) of 25 marks

End Semester Examination (ESE): Full Marks 75, Time 3 Hrs.

Five Questions have to be answered out of total of nine Questions of 15 marks each. Question no 1 is compulsory. Question No. 1 A will contain 05 MCQ of 01 mark each. Question No. 1B will comprise of 02 short answer type questions of 05 marks each (to be answered in about 100 words each). Any four questions from 2 to 9 are to be answered. Question nos. 2 to 8 shall be of descriptive type of 15 marks each. Question no 9 will be of short note type 4 questions, each carrying 7.5 marks in which any two should be answered (7.5 x 2 = 15).

**Unit 1: Nature and Scope of Public Finance**

1.1 : Meaning and Scope of Public Finance.

1.2 : Distinction between Private and Public Finance; Public goods and Private goods; Merit goods. Problem of Free Rider

1.3 : Principle of Maximum Social Advantage. 1.4: Market Failure; Role of the government.

**Unit 2: Tools of Public Finance**

2.1 : Meaning, Classification and Principle of Public Expenditure.

2.2 : Canons of Public Expenditure; Effects of Public Expenditure.

2.3 : Causes of Growth of Public Expenditure; Trends in Public Expenditure in India.

2.4 : Sources of Public Revenue.

2.5 Taxation: Meaning, Canons of Taxation; Classification of Taxes.

2.6 Division of tax burden—The Benefit Approach; Ability-to-Pay Approach. 3.3: Impact and Incidence of Taxes, Taxable Capacity, Effects of Taxation

2.7 : Characteristics of a good Tax System; Major trends in tax revenue of the Central and State Governments in India; Defects in Indian Tax System; Tax reforms; GST and VAT

**Unit 3: Public Debt, Financial Administration & Decentralization in India**

3.1: Public Debt: Meaning, Types, Sources and Need.

3.2: Effects of Public Debt; Burden of Public Debt.

3.3: Methods of Debt Redemption.

3.4: The Public Budget—Kinds of budget; Economic and Functional Classification of

Budget; Preparation of Budget in India, Current Budget Analysis

3.5: Centre-State Financial Relationship.

3.6: Role of Finance commission and features of current Finance Commission.

#### **Unit 4: International Trade**

4.1: International Economics: Definition, Nature and Importance.

4.2: Inter-Regional and International Trade.

4.3: Gains from Trade: Their Measurement and Distribution.

4.4: Absolute Cost Advantage; Comparative Cost Advantage; Heckscher-Ohlin Theory of International Trade.

#### **Unit 5: International Trade Policy & Foreign Exchange**

5.1: Free Trade vs. Protection.

5.2: Methods of Trade Restriction: Tariff- Types, Optimum Tariff, Impact of Tariff in partial equilibrium analysis; Quotas- Types, Their impact in partial equilibrium analysis

5.3: Exchange Rate Determination: Gold Standard (Mint Parity); Purchasing Power Parity Theory; Fixed and Floating Exchange Rate

5.4: Devaluation and Appreciation of Currency & impact on International Trade.

#### **Unit 6: Balance of Payment & International Financial Institutions and India**

6.1: Concepts and Components of Balance of Trade and Balance of Payment.

6.2: Equilibrium and Disequilibrium in Balance of Payment; Consequences of Disequilibrium in Balance of Payment; Measures to Correct Deficit in the Balance of Payments.

6.3: Functions of IMF; World Bank; WTO with reference to India.

6.4: Need and Importance of Foreign Capital in Developing Economies.

#### **Suggested Readings-**

1. S.K. Singh- Lok Vitt (Hindi), S Chand
2. S.K. Singh- Public Finance in Theory & Practice, S Chand
3. Musgrave R.A. & Musgrave P.B.- Public Finance in theory and Practice McGraw Hill
4. H L Bhatia Public Finance, Vikas Publishing House
5. H L Bhatia Lok Vitt, Vikas Publishing House
6. K P M Sundharam & K K Andley- Public Finance, S Chand
7. Dr B P Tyagi- Public Finance- Jai Prakash Nath & Co.
8. J. Bhagwati, International Trade, Cambridge Univ. Press
9. M.L. Verma, International Trade, Vikas Pub. Press
10. S.K. Singh, International Monetary System – Trends & Issues, Indus Publishing Company



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11. H.G. Mannur, International Economics, Vikas publication
12. Paul R Krugman, International Economics- Theory and Practice, Pearson Publication
13. D. Salvatore, International Economics, Wiley India
14. Sachdeva, International Economics, Vikas Bharati Publication
15. Vaishya & Sachdeva Singh - Antarashtriya Arthshastra, Oxford & IBH Com.

Semester- VII

ECN-AMJ-01A-T	Advance Mathematical Economics	Credits 06, Lectures 90
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Credits 06, Lectures 90, Marks:25 (MSE)+ 75(ESE)=100

Pass Marks:(MSE:08+ESE:32) =40

Instruction to Question Setter for Mid Semester Examination (MSE):

1 ½ Hrs. One semester internal Assessment (SIA) of 25 marks

End Semester Examination (ESE): Full Marks 75, Time 3Hrs.

Five Questions have to be answered out of total of nine Questions of 15 marks each. Question no 1 is compulsory. Question No.1 A will contain 05 MCQ of 01 mark each. Question No.1B will comprise of 02 short answer type questions of 05 marks each (to be answered in about 100 words each). Any four questions from 2 to 9 are to be answered. Question nos.2 to 8 shall be of descriptive type of 15 marks each. Question no 9 will be of short note type 4 questions, each carrying 7.5 marks in which any two should be answered ( $7.5 \times 2 = 15$ ).

**Unit 1: Introduction**

1.1 Role of Mathematics in Economics

1.2 :Set Theory: Use of Venn Diagrams and Cartesian Products

1.3 Number system and Introduction of algebraic series

**Unit 2: Basic Matrix Algebra**

21 : Types of Matrices – Row and Column Vector; Identity; Singular; Diagonal; Symmetric and Skew symmetric

22 : Addition, Subtraction and Multiplication of Matrices

23 : Order of Matrices; Transpose of a Matrix; Minor; Cofactors and Inverse of a Matrix, Rank of a Matrix

24 : Properties of Determinant

25 : Solutions of Equations by Matrix Inversion

**Unit 3: Game Theory**

3.1 : Game Theory: Introduction and Concepts.

3.2 : Pure Strategy: Saddle Point and its Existence

3.3 : Mixed Strategy: Solution by using Dominance Rule and Graphical Method

3.4 : Minimax Theorem.

**Unit 4: Linear Programming**

4.1 : Linear Programming: Introduction and Basic Concepts


4.2 : Formulation of LPP

4.3 : Graphical Solution of Linear Programming

4.4 : Dual Problem in Linear Programming ; Duality Theorem

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**Unit 5: Input-Output Analysis**

- 51 : Input-Output Analysis, Concept; Static Closed and Open Model; Concept and Measurement.
- 52 : Simon – Hawkins condition.
- 53 : Determination of Equilibrium Output and Value added

**Suggested Readings :**

- 1) Introduction to Operations Research – Concepts and Cases , F.S. Hillier and G.J. Lieberman, Tata McGraw Hill
- 2) An Introduction to Game Theory, Martin Osborne, Oxford University Press
- 3) Operations Research – An Introduction , Hamdy A. Taha , Prentice Hall
- 4) Mathematics for Economists , B.C. Mehta & G.M.K. Madhani , Sultan Chand & Sons , New Delhi
- 5) Mathematics for Economics and Business , R S Bhardwaj , Excel Books , New Delhi

**Semester-VII**

<b>ECN-AMJ-01B-T</b>	<b>Principles and leading Issues in Agriculture</b>	<b>Credits 06, Lectures 90</b>
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Credits 06, Lectures 90, Marks:25 (MSE)+ 75(ESE)=100

Pass Marks:(MSE:08+ESE:32) =40

Instruction to Question Setter for Mid Semester Examination (MSE):

1 ½ Hrs. One semester internal Assessment (SIA) of 25 marks

End Semester Examination (ESE): Full Marks 75, Time 3Hrs.

Five Questions have to be answered out of total of nine Questions of 15 marks each. Question no 1 is compulsory. Question No.1 A will contain 05 MCQ of 01 mark each. Question No.1B will comprise of 02 short answer type questions of 05 marks each (to be answered in about 100 words each). Any four questions from 2 to 9 are to be answered. Question nos.2 to 8 shall be of descriptive type of 15 marks each. Question no 9 will be of short note type 4 questions, each carrying 7.5 marks in which any two should be answered (7.5x2=15).

**UNIT 1: OVERVIEW OF AGRICULTURAL ECONOMICS**

- 1.1 : Nature and scope of agriculture: Traditional agriculture and its modernization;
- 1.2 : Role of Agriculture in economic development; Interdependence of Agriculture and Industry
- 1.3 Mellor's approach and Lewis Model; Linkages between agriculture and industry; Sustainable agricultural development.

**UNIT 2: RURAL ECONOMY OF INDIA**

- 2.1 Structure of Indian economy; place of agriculture in rural economy; composition of the Indian rural economy;
- 2.2 Farm sector and non-farm sector;
- 2.3 Diversification of Agriculture; Agriculture and Allied Activities (Fisheries, Horticulture, Floriculture); In India its Growth, Problems and State Policies, Cattle Wealth of India and Dairying.
- 2.4 Rural Industrialization: Food Processing and Agro Based Industries; Development of Rural Infrastructure.

**UNIT 3: DEVELOPMENT OF AGRICULTURE**

- 3.1: Agricultural Resources in India: Land Utilization, Cropping Pattern
- 3.2: Irrigation in India, Command Area Development And Flood Control
- 3.3 : Trends in Agriculture Growth and Agriculture Productivity; Pattern of Agricultural Development: Regional Variation Agrarian Relations
- 3.4 Land reforms and Agricultural Labor in India Agrarian relations, Historical Evolution. Land Reforms Program during Post Independence in India;
- 3.5 Agricultural labor, characteristics and problems.

**UNIT 4: TECHNOLOGICAL CHANGES IN AGRICULTURE**

- 4.1 Technological Advancement in agriculture; traditional techniques and practices; HYV seeds — fertilizer, water technology (Green Revolution);
- 4.2 Sustainable Agriculture; Emerging Trend in Agricultural Technology;
- 4.3 Dry Land Farming; Use of Bio-Technology Techniques

**UNIT 5: STATE AND AGRICULTURE**

- 5.1 Agriculture Planning in India: Decentralized Planning and Indicative Planning
- 5.2 Incentives in Agriculture; Price and Non- Price Incentives; Input Subsidies; Agriculture Price Policies (APP)
- 5.3 Agricultural Marketing in India, Nature of Demand and Supply of Agricultural Products, Need for State Intervention

**Basic Readings-**

1. C.B. Memoria, Agricultural Problems of India, Kitab Mahal
2. R.K. Lekhi, Joginder, Agricultural Economics – An Indian Perspective, Kalyani Publication.
3. J.K. Prasad, Agriculture in India – Institutional Structure and Reforms, New Century Publication.
4. Sadhu & Singh, Fundamentals of Agricultural Economics, Himalyan Publication House.
5. Dutt and Mahajan: Indian Economy
6. Mishra, S.K., & V.K. Puri: Indian Economy
7. Govt. of India: Economic Survey
8. Mishra & Puri: Bhartiya Arth Vawastha



**Semester-VII**

<b>ECN-AMJ-01C-T</b>	<b>Indian Banking and Financial System</b>	<b>Credits 06, Lectures 90</b>
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Credits 06, Lectures 90, Marks:25 (MSE)+ 75(ESE)=100

Pass Marks:(MSE:08+ESE:32) =40

Instruction to Question Setter for Mid Semester Examination (MSE):

1 ½ Hrs.One semester internal Assessment (SIA) of 25 marks

End Semester Examination (ESE): Full Marks 75, Time 3Hrs.

Five Questions have to be answered out of total of nine Questions of 15 marks each. Question no1 is compulsory. Question No.1 A will contain 05 MCQ of 01 mark each. Question No.1B will comprise of 02 short answer type questions of 05 marks each (to be answered in about 100 words each). Any four questions from 2 to 9 are to be answered. Question nos.2 to 8 shall be of descriptive type of 15 marks each. Question no 9 will be of short note type 4 questions, each carrying 7.5 marks in which any two should be answered (7.5x2=15).

**Unit 1: Banking System**

- 1.1 : Indian Banking System: Evolution, structure and changing role
- 1.2 : Balance Sheet and Portfolio Management
- 1.3 : Nationalisation of Banks; Bank Mergers
- 1.4: Public and Private Banks in India

**Unit 2: Central Bank and Monetary Policy**

- 2.1: Central Bank: Functions and objectives; balance sheet; goals, targets
- 2.2: Role and Functions of RBI: Development and Regulatory functions.
- 2.3: Monetary Policy: Objectives and Limitations; Current Monetary Policy of RBI;
- 2.4:Policy Reforms in Indian Banking: Banking Sector Reforms- Narasimhan committee Report I and II
- 2.5:Classification of Assets and Provisioning, NPA – Causes and Remedial Measures

**Unit 3: Introduction to Indian Financial System**

- 3.1 : Significance and Definition
- 3.2: Purpose and Organisation
- 3.3 : Liberalisation of the financial system
- 3.4: Non-Banking Financial Institutions in India
- 3.5 : Rural Banking in India
- 3.6 : Financial Inclusion: Concept; Importance; Recent Government initiatives

**Unit 4: Financial Institutions in India**

- 4.1 : Importance of Financial System in India.
- 4.2 : Financial Institutions in India: Function and Growth.
- 4.3 : Measures to Liberalise Financial System.
- 4.3 : Banking and Financial Sector Reforms: Impact on Economic Growth in India.

**Unit 5. Financial Markets**

- 5.1 Meaning and Role of Financial Markets; Meaning and Difference between Money and Capital Markets.
- 5.2 Objectives, Functions and Limitations of Money Market; Money markets in Developing economies with Special reference to India.
- 5.3 Instruments of Money Market: Certificate of Deposit Commercial Paper, Call Money, Treasury Bills,
- 5.4 Types of Market: Stock Market, Bond Market, Commodity Market, Derivatives Market

Semester-VII

ECN-AMJ-02A-T	Advanced Statistics for Economics	Credits 06, Lectures 90
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Credits 06, Lectures 90, Marks:25 (MSE)+ 75(ESE)=100

Pass Marks:(MSE:08+ESE:32) =40

Instruction to Question Setter for Mid Semester Examination (MSE):

1 ½ Hrs.One semester internal Assessment (SIA) of 25 marks

End Semester Examination (ESE): Full Marks 75, Time 3Hrs.

Five Questions have to be answered out of total of nine Questions of 15 marks each. Question no1 is compulsory. Question No.1 A will contain 05 MCQ of 01 mark each. Question No.1B will comprise of 02 short answer type questions of 05 marks each (to be answered in about 100 words each). Any four questions from 2 to 9 are to be answered. Question nos.2 to 8 shall be of descriptive type of 15 marks each. Question no 9 will be of short note type 4 questions, each carrying 7.5 marks in which any two should be answered (7.5x2=15).

**Unit -1: Introduction**

1.1 : Definition and Types of Descriptive Statistics; Applications of Tools of Descriptive Statistics

1.2 : Data Type – Quantitative and Qualitative, Cross- Sectional and Time Series, Panel Data; Dummy Variable Data

1.3 : Scales of Measurement – Nominal, Ordinal, Interval and Ratio Scale

1.4: Graphical Representation of Data

**Unit 2 Bivariate Analysis**

2.1 : Correlation- Product Moment Correlation; Partial and Multiple Correlation

2.2 : Regression – Linear and Non- Linear Regression, Multiple Regression

2.3: Properties of Correlation and Regression

**Unit -3: Definitions and Theorems of Probability, Probability Distribution and Mathematical Expectation**

3.1: Definitions of Probability - Classical, Statistical and Axiomatic

3.2: Theorems of Probability – Addition, Multiplication; Baye's Theorem and their applications

3.3: Probability Distribution – Binomial and Normal Distributions; Their Properties and Applications

3.4 : Mathematical Expectation – Meaning and Properties

**Unit – 4: Sampling Distribution and Estimation**

4.1 : Sampling Distribution – Distribution of Sample Mean and Variance

4.2: Sampling Distribution and Standard Error; Difference between Large & Small Samples

4.3: Estimation – Point and Interval Estimation; Properties of a Good Estimator

**Unit -5: Statistical Hypothesis Testing and Tests based on Large Sample, Small Sample & Chi-Square**

- 5.1 : Definition of Hypothesis; Statistical Testing ; Hypothesis Formulation Principle
- 5.2 : Testing Errors–Type I & Type II Errors, Two tailed and One tailed Tests of Hypothesis
- 5.3 : Z Test – One tailed Test for Difference between Sample Mean and Population Mean; Two tailed test for Difference between the Means of Two Samples
- 5.4 : t Test – One tailed Test for Difference between Sample Mean and Population Mean; Two tailed test for Difference between the Means of Two Independent Samples; Two tailed test for Difference between the Means of Two Dependent Samples
- 5.5 : Chi-Square ( $\chi^2$ ) test – Introduction and Application

**Suggested Readings-**

- 1) S. P. Gupta, Statistical Methods , Sultan Chand & Sons
- 2) Daryab Singh , Principles of Statistics , Atlantic
- 3) Dr. S. M. Shukla, Dr. Shiv Pujan Sahai , Advanced Statistical Analysis (Hindi Edition) , Sahitya Bhawan Publication
- 4) Dr. B. N. Gupta , Sankhiki , SBPD Publication
- 5) Murray R. Spiegel, John J. Schiller, R. Alu Srinivasan, Schamum's Outlines of Probability and Statistics , Tata Mc. Graw Hill Edition
- 6) S.C. Gupta and V.K. Kapoor Fundamentals of Mathematical Statistics , Sultan Chand & Sons
- 7) E.L. Lehmann, Joseph P. Romano , Springer Testing Statistical Hypothesis ,
- 8) J. Crawshaw and J. Chamber, Advanced Level Statistics , Oxford



## Semester-VII

ECN-AMJ-02B-T	INDUSTRIAL AND LABOUR ECONOMICS	Credits 06, Lectures 90
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Credits 06, Lectures 90, Marks:25 (MSE)+ 75(ESE)=100

Pass Marks:(MSE:08+ESE:32) =40

Instruction to Question Setter for Mid Semester Examination (MSE):

1 ½ Hrs. One semester internal Assessment (SIA) of 25 marks

End Semester Examination (ESE): Full Marks 75, Time 3Hrs.

Five Questions have to be answered out of total of nine Questions of 15 marks each. Question no 1 is compulsory. Question No.1 A will contain 05 MCQ of 01 mark each. Question No.1B will comprise of 02 short answer type questions of 05 marks each (to be answered in about 100 words each). Any four questions from 2 to 9 are to be answered. Question nos.2 to 8 shall be of descriptive type of 15 marks each. Question no 9 will be of short note type 4 questions, each carrying 7.5 marks in which any two should be answered (7.5x2=15).

### Unit 1: Industrial Economics: An Introductory Framework

- 1.1 Meaning and Definition of Industrial Economics
- 1.2 Subject Matter and Nature of Industrial Economics
- 1.3 Characteristics, Importance of the study of Industrial Economics
- 1.4 Organisation, Ownership and objectives of the Firm.

### Unit 2: Industrial Productivity and Finance

- 2.1 Meaning of Industrial Productivity
- 2.2 Meaning of productivity ; Factors affecting Industrial Productivity, Importance of Productivity
- 2.3 Components of Industrial funds; Sources of Industrial finance; Major funding agencies - IDBI, IFCI, SFCs, SIDBI and Indian Commercial Banks.

### Unit 3: Industrial Growth Pattern

- 3.1 New Industrial Policy in India
- 3.2 Role of Public and Private Sector; Performance of Private and Public Sector
- 3.3 Problems of Small and Cottage Industries in Economics Development of India.
- 3.4 Medium Small and Micro Enterprises (MSME)

### Unit 4: Labour Economics and Labour market

- 4.1 Meaning and Definition of Labour Economics; Scope and Importance of Labour Economics
- 4.2 Nature of Labour Problems
- 4.3 Concept of Labour Market; Analysis of Demand and Supply of labour; Factors affecting Demand and Supply of labour
- 4.4 Characteristics of labour Market in India.

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**Unit 5: Wage & Social Security Measures**

- 51 Wage determination, Classical Neo-Classical and Bargaining Theory of wage determination
- 52 Types of wages in India; National wage Policy; State Regulation of Wage; Wage Board in India.
- 53 Meaning of Industrial Disputes; Causes and effects of Industrial Disputes ; Machinery of setting the Industrial Disputes in India
- 54 Concepts of Social Security and labour welfare in India; Social Security Legislations in India; Second National Commission on labour (1999); Arjun sengupta Committee Report

**Basic Readings-**

1. George, J. Borgai; Labour Economics.
2. Hay, D. and D.J. Morris (1979) Industrial Economics: Theory and Evidences, Oxford University Press, New Delhi.
3. R.R. Burthwal (1985), Industrial economics, Wiley Eastern Ltd., New Delhi.
4. Singh, A. and Sadhu , A.N. (1988), Industrial Economics, Himalaya Publishing House.
5. Dr. B.P. Tyagi (2009), Economics and social welfare- Revised Edition, Sage Publication, New Delhi.
6. Dr. Kulshrestha, S.R., Audyogik Arthshastra, Sahitya Bhawan Publications
7. Sr. Sinha Pushpa and Dr. Sinha C.B., Shram Arthshatra, S. Publications, D.P.B.

**Semester-VII**

ECN-AMJ-02C-T	<b>ECONOMICS OF SOCIAL SECTOR</b>	<b>Credits 06, Lectures 90</b>
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Credits 06, Lectures 90, Marks:25 (MSE)+ 75(ESE)=100

Pass Marks:(MSE:08+ESE:32) =40

Instruction to Question Setter for Mid Semester Examination (MSE):

1 ½ Hrs. One semester internal Assessment (SIA) of 25 marks

End Semester Examination (ESE): Full Marks 75, Time 3Hrs.

Five Questions have to be answered out of total of nine Questions of 15 marks each. Question no 1 is compulsory. Question No.1 A will contain 05 MCQ of 01 mark each. Question No.1B will comprise of 02 short answer type questions of 05 marks each (to be answered in about 100 words each). Any four questions from 2 to 9 are to be answered. Question nos.2 to 8 shall be of descriptive type of 15 marks each. Question no 9 will be of short note type 4 questions, each carrying 7.5 marks in which any two should be answered (7.5x2=15).

**Module I: Education and Development**

- 1.1 Education as public goods; Education as an instrument of economic growth
- 1.2 Women's Education; Recent trends in Women Education in India
- 1.3 National Committees and Commissions on Education
- 1.4 Adult Literacy and Non-Formal Education for economic development.

**Module II: Economics of Education**

- 21 Human Capital Vs Physical Capital
- 22 Demand for Education – Private Demand and Social Demand; Determinants of demand for education
- 23 Costs of education- Private costs and Social costs; Wastage and Stagnation in education
- 24 Benefits of education - Private and Social benefits; Cost benefit analysis of education.

**Module III: Health-Importance and Economics**

- 31 Importance of Health in Economic Development
- 32 Meaning of Health; Determinants of health; Various Measurements of Health; Mortality and morbidity factors influencing health
- 33 Poverty, malnutrition and environmental issues affecting health
- 34 Economic dimensions of health care – Demand and supply of health care; Financing of health care and resource constraints in health care and its delivery
- 35 Inequalities in health- class and gender perspectives; Public expenditure on health in India

**Module IV Resource Mobilisation in Education and Health**

- 4.1 Pricing problem in education; Role of grants and subsidies in Education
- 4.2 Public expenditure on education in India; Educational planning in developing countries with special emphasis in India.
- 4.3 Financing of Health; Private and Public Health Service
- 4.4 Public Health delivery mechanism; Public Expenditure on Health

**Module V: Gender Development Issues in India**

- 5.1 Difference between Sex and Gender; Gender Mainstreaming for development
- 5.2 Gender Budgeting- Meaning; Gender-Blind, Gender-Neutral and Gender-Redistributive Policies
- 5.3 Women's education –Importance of Women's Education; Status of Women's education in India; Gender bias in Enrollment and in Drop-outs
- 5.4 Health status of women in India – Mortality and morbidity factors influencing health and nutrition of Women; Globalization and Women in India.

**Suggested Readings-**

- 1 Arya P.P. and B.B. Tandon (Ed) 2004 : Human Resource Development, Deep & Deep Pub. New Delhi.
- 2 Goel, S.L. and P.N. Gautam (2005) : Human Resource Development in the 21st century, Concept and case studies, Deep & Deep Pub. New Delhi.
- 3 Meier, Gerald M. and James' E. Rauch (2010) : Leading issues in economic development, Oxford Univ. Press, New York.
- 4 Todaro, Michael P and Stephen C. Smith (2003) : Economic Development, Pearson Education Ltd. World Development Report (World Bank)
- 5 Human Development Report (UNDP)
- 6 Dominic J Brewer and Patrik J McEvan, Economics of Education, Academic Press
- 7 Siuli Sarkar, Gender Disparity in India: Unheard Whimpers, PHI Learning
- 8 Himanshu Shekhar Rout, Prashant Kumar Panda, Gender and Development in India: Dimensions and Strategies, New Century Publications



**Semester-VIII**

<b>ECN-AMJ-03A-T</b>	<b>INTRODUCTORY ECONOMETRICS</b>	<b>Credits 06, Lectures 90</b>
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Credits 06, Lectures 90, Marks:25 (MSE)+ 75(ESE)=100

Pass Marks:(MSE:08+ESE:32) =40

Instruction to Question Setter for Mid Semester Examination (MSE):

1 ½ Hrs.One semester internal Assessment (SIA) of 25 marks

End Semester Examination (ESE): Full Marks 75, Time 3Hrs.

Five Questions have to be answered out of total of nine Questions of 15 marks each. Question no1 is compulsory. Question No.1 A will contain 05 MCQ of 01 mark each. Question No.1B will comprise of 02 short answer type questions of 05 marks each (to be answered in about 100 words each). Any four questions from 2 to 9 are to be answered. Question nos.2 to 8 shall be of descriptive type of 15 marks each. Question no 9 will be of short note type 4 questions, each carrying 7.5 marks in which any two should be answered (7.5x2=15).

**Unit –I: Introduction**

- 1.1 Nature , Scope and Division of Econometrics
- 1.2 Methodology of Econometrics
- 1.3 Distinction between Economic Model and Econometric Model
- 1.4 Concept of Stochastic Relation, Role of Random Term in Econometric Model

**Unit –II: Simple Linear Regression Model**

- 2.1 : Assumptions of Simple Linear Regression Model
- 2.2 : Concept of Population Regression Function, Sample Regression Function and Estimation of Model by the Method of Ordinary Least Squares
- 2.3 : Properties of OLS Estimators, Gauss Markov Theorem 2.4:  
Test of Significance of the Parameters
- 2.5: Coefficient of Determination

**Unit –III: Multiple Linear Regression Model**

- 3.1 : Estimation of Parameters of Multiple Linear Regression Model
- 3.2: Statistical Properties of Parameters
- 3.3: Test of Significance of the Parameters
- 3.4: Goodness of Fit – R<sup>2</sup> and Adjusted R<sup>2</sup>
- 3.5: Analysis of Variance (ANOVA) and Regression

**Unit –IV: Violation of Classical Assumptions**

- 41 : Heteroscedasticity – Causes, Consequences, Test and Remedial Measures
- 42 : Autocorrelation - Causes, Consequences, Durbin– Watson Test, Remedial Measures, First Order Autoregressive Scheme, Mean, Variance and Co- variance of Auto correlation
- 43 : Multicollinearity - Causes, Consequences, Test and Remedial Measures

**Unit -V: Simultaneous Equations Model**

- 5.1: Simultaneous Equation Bias, Consequences of Simultaneous Equations Bias
- 5.2: Identification – Introduction, Rules for Identification
- 5.3: Time Series Analysis – Introduction, Random Walk Model, Stationary and Non - Stationary Processes

**Suggested Readings-**

- 1) Johnston J., *Econometrics Methods*, McGraw Hill
- 2) Damodar N. Gujarati, *Basic Econometrics* , Tata McGraw Hill
- 3) William H. Greene , *Econometric Analysis* , Pearson Education
- 4) D. N. Gujarati and D.C. Porter , *Essentials of Econometrics* , McGraw Hill , 4th Edition, International Edition , 2009
- 5) G. S. Maddala, *Introduction to Econometrics* , Wiley India
- 6) A. Koutsoyiannis , *Theory of Econometrics*, ELBS with Macmillan

**Semester-VIII**

ECN-AMJ-03B-T	DEMOGRAPHY	Credits 06, Lectures 90
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Credits 06, Lectures 90, Marks:25 (MSE)+ 75(ESE)=100

Pass Marks:(MSE:08+ESE:32) =40

Instruction to Question Setter for Mid Semester Examination (MSE):

1 ½ Hrs. One semester internal Assessment (SIA) of 25 marks

End Semester Examination (ESE): Full Marks 75, Time 3Hrs.

Five Questions have to be answered out of total of nine Questions of 15 marks each. Question no1 is compulsory. Question No.1 A will contain 05 MCQ of 01 mark each. Question No.1B will comprise of 02 short answer type questions of 05 marks each (to be answered in about 100 words each). Any four questions from 2 to 9 are to be answered. Question nos.2 to 8 shall be of descriptive type of 15 marks each. Question no 9 will be of short note type 4 questions, each carrying 7.5 marks in which any two should be answered (7.5x2=15).

**Unit 1: Population and Development**

- 1.1 Meaning and Scope of Demography.
- 1.2 Population Growth: Meaning, Component and Measurement.
- 1.3 Theories of population- Malthus theory, Optimum theory, Theory of Demographic transition.

**Unit 2: Techniques of Analysis of Population Data**

21. Fertility: Meaning, Importance of study of fertility, Concept of Crude Birth Rate, Total Fertility Rate, Gross Reproduction Rate and Net Reproduction Rate Factors affecting fertility rate, Trend of fertility ratio India.
22. Nuptiality- Meaning, Concept, Marital status, Trends in age at marriage in India.
23. Mortality –Meaning, Concept of Death rates, Crude and Age specific, Infant mortality rate, Maternal Mortality rate, Factors for decline in mortality in recent past.

**Unit 3 Population Indices**

31. Life table, Basic concept of life table, type and forms of life table, Preparation of life table.
32. Population Pyramid, Concept, Construction & its Significance,
33. Population Projection: stable and stationary population.
- 34 : Concepts of population Cohort ; Meaning and components of Vital Statistics, 'de facto ' and 'de jure' Census of a area

**Unit 4: Sources of Demographic Data in India**

- 41 Sources of Demographic data: Census, Registration and Sample Survey-Their relative merits and demerits
- 42 Population census, methodology and characteristics of census, nature of information collected in 1971, 1981, 1991, 2001 and 2011.
- 43 : Registration method in India, NSSO and its Rounds, MOSPI and Demographic data



**Unit 5: Population Policy in India**

5.1 Evolution of population policy in India, The shift in policy from population control to family welfare, to women empowerment.

5.2 The new population policy

**Suggested Readings-**

1. J.N. Desai, M.L. Jhingan, and B.K. Bhatt (2003) Demography, Vrinda Publications.
2. Mishra, J., (2016) : Demography , Sahitya Bhawan Publications.
3. Preston, S., Heuveline, P., and Guillot, Michel ( 2000): Demography Measuring and Modeling Population Processes.
4. Sinha, V. C. and Sinha, P., (2018) Demography, SBPD Publication.
5. Weinstein, Jay and Pillai, Vijayan K. (2000): Demography: The Science of Population.

### Semester-VIII

ECN-AMJ-03C-T	JHARKHAND ECONOMY	Credits 06, Lectures 90
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Credits 06, Lectures 90, Marks:25 (MSE)+ 75(ESE)=100

Pass Marks:(MSE:08+ESE:32) =40

Instruction to Question Setter for Mid Semester Examination (MSE):

1 ½ Hrs. One semester internal Assessment (SIA) of 25 marks

End Semester Examination (ESE): Full Marks 75, Time 3Hrs.

Five Questions have to be answered out of total of nine Questions of 15 marks each. Question no 1 is compulsory. Question No.1 A will contain 05 MCQ of 01 mark each. Question No.1B will comprise of 02 short answer type questions of 05 marks each (to be answered in about 100 words each). Any four questions from 2 to 9 are to be answered. Question nos.2 to 8 shall be of descriptive type of 15 marks each. Question no 9 will be of short note type 4 questions, each carrying 7.5 marks in which any two should be answered (7.5x2=15).

#### UNIT 1: Jharkhand Economy and its Growth

- 1.1 Evolution of Jharkhand economy; Structure and basic features of Jharkhand's Economy; Sectoral composition
- 1.2 Growth in SDP and per capita NSDP since 2000
- 1.3 Composition, Production and Productivity in Agriculture in Jharkhand; Agricultural Growth in Jharkhand.
- 1.4 Major Industries of Jharkhand; Industrial growth in Jharkhand; Main problems of Industrial development in Jharkhand, Industrial Policy in Jharkhand

#### UNIT 2: Demographic features of Jharkhand

- 21 Population growth, density, and Regional distribution
- 22 Literacy, Sex Ratio, Composition of work force, rural urban composition -their present status and change with Special Reference Census 2001 and 2011; Their Inter district variations
- 23 : Tribal population in Jharkhand: main tribes; Demographic features of tribal population in the state;

#### UNIT 3: Poverty and Unemployment in Jharkhand

- 3.1 Status of poverty in Jharkhand; Major Poverty Alleviation Programs in Jharkhand and their outcomes, MGNREGA, PMGSY, NRLM,
- 3.2 Unemployment in Jharkhand- status and trend in Rural and Urban areas
- 3.3 Status of food security in Jharkhand; Food security schemes; Child and Women malnutrition in Jharkhand
- 3.4 Status of Education and Health indicators in Rural and Urban areas of Jharkhand- literacy rates, Enrollment Ratios, Mortality rates, Maternal mortality rates, Child Mortality rates in Jharkhand etc



**UNIT 4: Land, forest and environmental issues in Jharkhand**

- 4.1 Land reforms and agrarian Relations
- 4.2 Tribal and alienation,
- 4.3 Development induced displacement : impacts and Policy initiatives
- 4.4 Forest issues and implementation of FRA, 4.5 Environmental Degradation and policy in the state

**UNIT 5: Migration and Urbanisation in Jharkhand**

- 5.1 Rural- Urban migration and Intra state migration in Jharkhand
- 5.2 Causes of migration in Jharkhand- push and pull factors; Effect of Migration on rural sector and urban sector, Government Programs to prevent migration
- 5.3 Meaning of Urbanisation; Urbanisation in Jharkhand- status and trend; causes and consequences of rising urbanisation in the state
- 5.4 Public Finance trends in Jharkhand

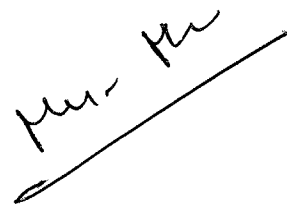
**Suggested Readings:**

- 1. Jharkhand Samanya gyan ; Manish Ranjan
- 2. Micro Planning of Jharkhand; Kunal Vikram
- 3. Jharkhand -Land and People, Raj Kumar and S Ram, Arjun publication
- 4. Jharkhand- A State Study Guide, Neeraj Kumar Jha, Jeevons Publications  
District Gazetteer of Jharkhand , S C Bhat, Gyan Publishing House
- 6. Development of Bihar and Jharkhand, Sharat Kumar, Pravin Kumar Jha, Shipra Publications

**Semester-VIII**

ECN-AMJ-04-P	PROJECT/ Field Work	Credits 06, Lectures 90
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1. Each student should be assigned a project supervisor from the faculty members of the concerned centre.
2. The topic of project report should be decided by the supervisor taking into account the area of interest of the student. As far as possible the topic should address the current issues / developments in the field of Economics.
3. Standard norms for the preparation of a research project report may be followed – introduction, brief background, relevance of the topic, literature review, problem statement, objectives, hypotheses, sample design, data nature and sources, tools and techniques of data collection, data presentation, analysis, and interpretation, findings and conclusion.
4. The Dissertation outcomes may be reported in the following form: Chapter-1: Introduction & Review of Literature; Chapter-2: Research Methodology; Chapter-3: Conceptual & Theoretical Description; Chapter-4: Analysis and Interpretations; Chapter-5: Conclusion, Suggestions & Scope for further research; References, Annexure, etc.
5. The Dissertation outcomes should be evaluated both in the form of reports and vivavoce examination by a duly constituted committee by the appropriate authority.
6. This is to be evaluated as ‘Satisfactory (S)’ or ‘Unsatisfactory (US)’.



**MINOR PAPER**

**SEMESTER IV**

<b>ECN-MN-01-T</b>	<b>Intermediate Economics</b>	<b>Credits 06, Lectures 90</b>
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Credits 06, Lectures 90, Marks:25 (MSE)+ 75(ESE)=100

Pass Marks:(MSE:08+ESE:32) =40

Instruction to Question Setter for Mid Semester Examination (MSE):

1 ½ Hrs. One semester internal Assessment (SIA) of 25 marks

End Semester Examination (ESE): Full Marks 75, Time 3Hrs.

Five Questions have to be answered out of total of nine Questions of 15 marks each. Question no 1 is compulsory. Question No.1 A will contain 05 MCQ of 01 mark each. Question No.1B will comprise of 02 short answer type questions of 05 marks each (to be answered in about 100 words each). Any four questions from 2 to 9 are to be answered. Question nos.2 to 8 shall be of descriptive type of 15 marks each. Question no 9 will be of short note type 4 questions, each carrying 7.5 marks in which any two should be answered ( $7.5 \times 2 = 15$ ).

**Unit I: Introduction**

1.1 : Subject Matter of Economics; Central Economic Problems; Production Possibility Frontier.

1.2 : Micro and Macro Economics; Positive and Normative Economics.

**Unit 2: Consumer Behaviour and Demand**

2.1 : Cardinal Utility Analysis: Total and marginal Utility; Law of Diminishing Marginal Utility; Law of Equi-Marginal Utility; Consumer's Equilibrium.

2.2 : Ordinal Utility Analysis: Indifference Curves; Budget Constraints; Consumer's Equilibrium.

2.3 : Consumer's Surplus: Marshall and Hicks.

2.4 : Theory of Demand; Elasticity of Demand: Price, Income and Cross.

**Unit 3: Theory of Production**

3.1 : Production Function: Short Run and Long Run.

3.2 : Law of Variable Proportions; Returns to Scale: Economies of Scale.

3.3 : Isoquant Analysis; Iso-Cost Line; Producer's Equilibrium.

**Unit 4 Theory of Costs and Revenue**

4.1 Concepts of Costs (Total, Marginal and Average) and their inter-relationship; Short Run and Long Run Cost curves

4.2 Concepts of Revenue (Total, Marginal and Average) and their inter-relationship; Break-Even Analysis.

4.3 Revenue curves under perfect and imperfect markets



**Unit 5: Market Structure**

- 5.1 Definition of Market; Forms of Market: Perfect and Imperfect Markets- Their Salient Features.
- 5.2 Equilibrium of the Firm and Industry under Perfect Competition.
- 5.3 Monopoly: Meaning; Price and Output Determination; Price Discrimination.
- 5.4 Monopolistic Competition: Price and Output Determination.

**Readings:**

- 1. Micro Economics (Hindi/English)- M.L.Seth- Laxmi Narayan Publication
- 2. Micro Economics (Hindi/English)- T.T.Sethi-Laxmi narayan Publication
- 3. Principles of Economics- P.N Chopra- Kalyani Publication
- 4 Intermediate Microeconomics, Hal R. Varian, 8th edition, W.W. Norton and Company/Affiliated East-West Press
- 5. Micro economics- M.L.Jhingan- Vrinda publication

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## Semester V

ECN-MN-02-T	Money & Banking	Credits 06, Lectures 90
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Credits 06, Lectures 90, Marks: 25 (MSE) + 75 (ESE) = 100

Pass Marks: (MSE: 08 + ESE: 32) = 40

Instruction to Question Setter for Mid Semester Examination (MSE):

1 ½ Hrs. One semester internal Assessment (SIA) of 25 marks

End Semester Examination (ESE): Full Marks 75, Time 3Hrs.

Five Questions have to be answered out of total of nine Questions of 15 marks each. Question no 1 is compulsory. Question No. 1 A will contain 05 MCQ of 01 mark each. Question No. 1B will comprise of 02 short answer type questions of 05 marks each (to be answered in about 100 words each). Any four questions from 2 to 9 are to be answered. Question nos. 2 to 8 shall be of descriptive type of 15 marks each. Question no 9 will be of short note type 4 questions, each carrying 7.5 marks in which any two should be answered ( $7.5 \times 2 = 15$ ).

### Unit 1: Demand for Money

1.1 : Money: Meaning and Functions of Money

1.2 : Kinds of Money

1.3 : Quantity Theory of Money : Cash Transactions Approach and Cash Balance Approach

### Unit 2: Supply of Money

2.1 Supply of money- Definitions & Determinants

2.2 High Power Money

2.3 Money Multiplier

### Unit 3: Inflation

3.1: Definition, Types, Causes and Effects of Inflation

3.2: Measures to Control Inflation

3.3: Concept of Inflationary Gap

### Unit 4: Central Banking

4.1: Objectives and Functions of Central Bank with reference to RBI

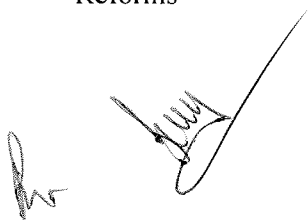
4.2: Quantitative and Qualitative Methods of Credit Control

### Unit 5: Commercial Banking

5.1: Meaning, Types and Functions of Commercial Banks

5.2: Process of Credit Creation

5.3: Critical Evaluation of Commercial Banking after Nationalization and Recent Banking Reforms



*ECONOMICS (Honours) NEP Syllabus BBMK Univeisity*

**Suggested Readings**

- 1) Money , Banking , International Trade and Public Finance , M.L.Seth, Lakshmi Narain Agarwal
- 2) Mudra, Banking and Antrarashtriya Bayapar ,Dr. T.T. Sethi, Lakshmi Narain Agarwal
- 3) Aurthashastra , Dr.V.C.Sinha and Dr. Pushpa Sinha , SBPD Publications

**Semester VI**

<b>ECN-MN-03-T</b>	<b>Indian Economy</b>	<b>Credits 06, Lectures 90</b>
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Credits 06, Lectures 90, Marks:25 (MSE)+ 75(ESE)=100

Pass Marks:(MSE:08+ESE:32) =40

Instruction to Question Setter for Mid Semester Examination (MSE):

1 ½ Hrs.One semester internal Assessment (SIA) of 25 marks

End Semester Examination (ESE): Full Marks 75, Time 3Hrs.

Five Questions have to be answered out of total of nine Questions of 15 marks each. Question no1 is compulsory. Question No.1 A will contain 05 MCQ of 01 mark each. Question No.1B will comprise of 02 short answer type questions of 05 marks each (to be answered in about100 words each). Any four questions from 2 to 9 are to be answered. Question nos.2 to 8 shall be of descriptive type of 15 marks each. Question no 9 will be of short note type 4 questions, each carrying 7.5 marks in which any two should be answered (7.5x2=15).

**Unit 1- Introduction**

- 1.1 : Basic characteristics of Indian Economy
- 1.2 : Five-Year-Plans and economic development
- 1.3 : Major Problems of Indian Economy- Poverty, Inequality, Unemployment and Population Explosion- their meaning and extent
- 1.4 : Basic Demographic traits of Indian Economy

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**Unit 2- Agriculture**

- 1.1: Nature of Indian Agriculture; Importance of Agriculture in Indian Economy; Trends of Agriculture production in India
- 1.2: Land Reforms.
- 1.3: New Agricultural Strategy and Green Revolution.
- 1.4: Rural Credit.

**Unit 3- Industry**

- 2.1: Industrial Development during the Plan Periods
- 2.2: Industrial Policy of 1991.
- 2.3: Large Scale Industries: Sugar, Iron and Steel, and Cotton Textile Industries. Its present situation and its problems.
- 2.4: Small Scale Industries: Growth, Importance and Problems, Medium Small and Micro Enterprise (MSME)

**Unit 4- External Sector**

- 1.1: Role of Foreign Trade
- 1.2: Trends in Export and Import.
- 1.3: Composition and Direction of India's Foreign trade.

**Unit 5- Regional Economy**

- 5.1 Evolution of Jharkhand Economy; Structure and basic features of Jharkhand's Economy; Sectoral composition
- 5.2 Land, Water, Forest and Mineral Resources of Jharkhand
- 5.3 Agriculture development in Jharkhand & Problems faced by agriculture sector.
- 5.4 Industrial growth in Jharkhand; Main problems of Industrial development in Jharkhand and its redressal



**SUGGESTED READINGS**

1. Bhagawati, J (2012): Reform and Economic Transformation in India.
2. Brahmananda, P.R. and Panchmukhi, V.R. (2001) : Development Experience in Indian Economy: Inter State Perspective, Bookwell , Delhi.
3. Goyal, Ashima (2015): A Concise Handbook of Indian Economy in the 21st century.
4. Dantwala, M.L. (1996): Dilemmas of Growth The Indian Experience, Oxford University Press, New Delhi.
5. Puri, V.K. and Mishra, S.K. (2018): Indian Economy, Himalaya Publishing House.(Hindi/English)
6. Dutt, R. and Mahajan, B.D. (2018): Indian Economy, S. Chand Publications, New Delhi. (Hindi/English)
7. Yojana( Hindi/English)- A Monthly Magazine.
8. Kurukshetra (Hindi/English)- A Monthly Journal of Rural Development.
9. Economic Survey, Govt. of India (Hindi/English)

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