

Department of Economics

Syllabus for Four Year Undergraduate Programme (FYUGP)

National Education Policy 2020

Syllabus for Bachelor of Arts in Economics

Four Year Undergraduate Honours /Research Program under NEP



SESSION 2023-2027 (Onwards)

BBMK University, Dhanbad

Members of Board of Studies
Department of Economics

Four-Year Undergraduate Honours/Research Program under NEP

As per the notification no. BBMKU/R/1287/2022 of BBMKU, 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

Sadhna Singh

Table 1: Credit Framework for Four Year Undergraduate Programme (FYUGP) under State Universities of Jharkhand [Total Credits = 160]

Level of courses	Semester		MJ: Discipline Specific Courses (Core or Major) (8)	MN: Minor for discipline (16)	MNV: Minor from vocational (16)	MDC: Multidisciplinary Courses (Life sciences, Physical Sciences, Mathematical and Computer Sciences, Data Analysis, Social Sciences, Humanities, etc.) (8)	AEC: Ability Enhancement Courses (Modern Indian Language and English) (8)	SEC: Skill Enhancement Courses (8)	VAC: Value Added Courses (8)	IAP: Internships/Industrial (4)	RC: Research Courses (12)	AMC: Advanced Courses in Discipline (12)	Credits	Double Major (max)
	I	II												
100-199: Foundation or Introductory courses	1	4	4	4	4	3	2	3	4				20	4-4
200-299: Intermediate-level courses	Each Point Undergraduate Certificate provided with Summer Internship Project (4 credits)													
	III	4-4	4			3	2	3					20	4-4
	IV	4-4-4	4			3	2	3					20	4-4
	Each Point Undergraduate Diploma provided with Summer Internship in 1 st or 2 nd year/ Project (4 credits)													
300-399: Higher-level courses	V	4-4-4	4							4			20	4-4
	VI	4-4-4-4	4										20	4-4
400-499: Advanced courses	Each Point Undergraduate Degree													
	VII	4-4-4-4	4										20	4-4
	VIII	4											20	4-4
Each Point Undergraduate Degree with Honors (Honors with Research)														
													160	2-4

Note: Honours students and undergraduates providing research project in Honors or Research will be eligible for award of Honors or Research. Research project is mandatory.

Approved
Dr. J. K. Singh
Dr. R. K. Singh
Dr. P. K. Singh

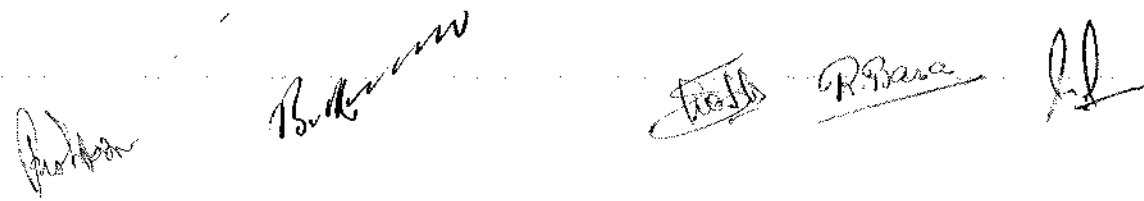
M. K. Singh

Jharkhand NBP Regulations for FYUGP 2022 onwards

ECONOMICS (Honours) FYUGP Syllabus BBMK University Revised

Semester-wise Titles of the Papers (Major)					
Year	Sem.	CourseCode	Title of the Paper	Theory/ Practical	Credits
Certificate Course in Fundamentals of Economics					
FIRST- YEAR	I	ECOMJ-1	Principles of Microeconomics	Theory	4 Credits
	II	ECOMJ-2	Principles of Macroeconomics	Theory	4 Credits
		ECOMJ-3	Indian Economy	Theory	4 Credits
Diploma in Economics					
SECOND YEAR	III	ECOMJ-4	Introductory Statistics for Economics	Theory	4 Credits
		ECOMJ-5	Public Finance	Theory	4 Credits
	IV	ECOMJ-6	Money & Banking	Theory	4 Credits
		ECOMJ-7	Environmental Economics	Theory	4 Credits
		ECOMJ-8	Jharkhand Economy	Theory	4 Credits

Bachelor in Economics					
THIRD YEAR	V	ECOMJ-9	History of Economic Thought	Theory	4 Credits
		ECOMJ-10	Advanced Macroeconomics	Theory	4 Credits
		ECOMJ-11	Economics of Market, Distribution & Welfare	Project Theory	4 Credits
	VI	ECOMJ-12	Principles of Agriculture Economics	Theory	4 Credits
		ECOMJ-13	Economics of Growth & Development	Theory	4 Credits
		ECOMJ-14	Introductory Mathematics for Economics	Theory	4 Credits
		ECOMJ-15	International Trade	Theory	4 Credits



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Bachelor in Economics with Honours					
	VII	ECOMJ-16	Planning Development & Problems of Indian Economy	Theory	4 Credits
		ECOMJ-17	Economics of Social Sector	Theory	4 Credits
		ECOMJ-18	Human Development Dimensions and India	Theory	4 Credits
		ECOMJ-19	Money and Financial Market		
FOURTH YEAR	VIII	ECOMJ-20	Gender and Development	Theory	4 Credits
	Advance Major Gr. A	AMJ-1A	Matrix & Operation Research in Economics	Theory	4 Credits
		AMJ-1B	Econometrics	Theory	4 Credits
		AMJ-1C	Advance Statistical Economics	Theory	4 Credits
	Advance Major Gr. B	AMJ-2A	Leading Issues in Indian Agricultural	Theory	4 Credits
		AMJ-2B	Demography	Theory	4 Credits
		AMJ-2C	Rural Development	Theory	4 Credits
	Advance Major Gr. C	AMJ-3A	Indian Banking and Financial System	Theory	4 Credits
		AMJ-3B	Industrial Economics	Theory	4 Credits
		AMJ-3C	Labour Economics	Theory	4 Credits
<i>Or</i>					
Bachelor in Economics with Research					
	VIII	RC-1	Research Methodology	Theory	4 Credits
		RC-2	Dissertation/Field Work/Internship	8 Credits

Advance Major (AMJ)- There will be three groups of Advanced Major, (A, B &C) students will have to choose one of the following groups. Each group will have three papers from the specialisation.

GROUP- A Mathematical Economics and Econometrics

GROUP-B Agriculture Economics

GROUP C Industrial Economics

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Minor Papers

<i>Year</i>	<i>Semester</i>	<i>Paper Code</i>	<i>Title of the Paper</i>	<i>Theory</i>	<i>Credits</i>
<i>1st</i>	<i>I</i>	<i>ECO-MN-1A</i>	<i>Introductory Economics</i>	<i>Theory</i>	<i>4 Credits</i>
<i>2nd</i>	<i>III</i>	<i>ECO-MN-1B</i>	<i>Money and Banking</i>	<i>Theory</i>	<i>4 Credits</i>
<i>3rd</i>	<i>V</i>	<i>ECO-MN-1C</i>	<i>Indian Economy</i>	<i>Theory</i>	<i>4 Credits</i>
<i>4th</i>	<i>VII</i>	<i>ECO-MN-1D</i>	<i>Public Finance & International Trade</i>	<i>Theory</i>	<i>4 Credits</i>

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Multidisciplinary Course			
<i>ECO-MDC</i>	<i>Introductory Economics</i>	<i>Theory</i>	<i>3 Credits</i>

Minor From Vocational			
CODE	SEM	PAPER	CREDITS
<i>ECO-MN-2A</i>	<i>II</i>	<i>Financial Literacy and Banking Sector</i>	<i>4</i>
<i>ECO-MN-2B</i>	<i>IV</i>	<i>Tourism and Travel Management</i>	<i>4</i>
<i>ECO-MN-2C</i>	<i>VI</i>	<i>Entrepreneurship Development</i>	<i>4</i>
<i>ECO-MN-2D</i>	<i>VIII</i>	<i>Data Analysis</i>	<i>4</i>

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Semester I
ECOMJ-1
Principles of Micro Economics

Course Outcome: The Outcome of the paper is to analyse the economic behaviour of individuals, firms and markets. It is mainly to equip the students in a rigorous and comprehensive understanding with the various aspects of consumer behaviour and Economic Welfare, Firms behaviour and the theory of imperfect markets and equilibrium in different conditions.

For End Semester Examination (ESE 75 marks, 3Hrs Exam): There will be two group of questions. **Group A is compulsory** which will contains three questions. **Question no. 1 will be very short answer** type of 1 mark each. Question No. 2 & 3 will be **short answer type** of 5 marks each. Group B will contain descriptive type six question of fifteen marks each, out of which any four are to answer.

Unit 1: Introduction

- 1.1: Subject Matter of Economics
- 1.2: Nature and Scope of Economics: Micro and Macro Economics; Positive and Normative Economics; Dynamic and Comparative Static Economics.
- 1.3: Methodology in Economics: Deductive and Inductive Methods.
- 1.4: Central Economic Problems: Scarcity and Choice; Production Possibility Curve

Unit 2: Consumer Behavior

- 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 Price Effect; Substitution Effect (Hicks and Slutsky); Income Effect.
- 2.4 Income Consumption Curve (ICC) and Price Consumption Curve (PCC); Normal, Inferior and Giffen Goods.
- 2.5 Consumer's Surplus: Marshall and Hicks.

Unit 3: Demand Analysis

- 3.1 Meaning of Demand; Derivation of individual Demand Curve under Cardinal and Ordinal Utility Analysis; Market demand curves for a product
- 3.2 Law of Demand; Factors Influencing Demand; Shifts in demand; Increase and Decrease in demand; Engels' Curve;
- 3.3 Elasticity of Demand; Price; Income and Cross Elasticity; Factors affecting Elasticity of demand

Unit 4: Theory of Production

- 4.1: Production Function: Short run and Long Run
- 4.2: Law of Variable Proportions
- 4.3: Returns to Scale, Economies of Scale
- 4.4: Cobb-Douglas Production Function: It's Properties
- 4.5: Isoquant; Properties; Iso- Cost Line; Producer's Equilibrium; Expansion Path

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. Stieglitz 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 McGraw Hill, India.*
6. *Alfred W. Stonier and Douglas C. Hague, A Textbook of Economic Theory, E L B S 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.*

SEMESTER-II
ECOMJ-2
Principles of Macro Economics

Couse Outcome: Upon completion Students will develop a solid understanding of key macroeconomic concepts, including national income accounting, aggregate demand and supply, inflation, unemployment, and economic growth. Students will gain the ability to analyze and interpret macroeconomic indicators such as Gross Domestic Product (GDP), Consumer Price Index (CPI), unemployment rate, and interest rates. They will understand how these indicators reflect the overall health of an economy.

For End Semester Examination (ESE 75 marks, 3Hrs Exam): There will be two group of questions. **Group A is compulsory** which will contains three questions. **Question no. 1 will be very short answer** type of 1 mark each. Question No. 2 & 3 will be **short answer** type of 5 marks each. Group B will contain descriptive type six question of fifteen marks each, out of which any four are to answer.

1. Introduction

- 1.1 What is macroeconomics
- 1.2 Macroeconomic issues in an economy.

2. National Income Accounting

- 2.1 Concept of circular flow; concepts of GDP and national income: national income and its related aggregates;
- 2.2 Measurement of national income; nominal and real income: limitations of GDP concept.
- 2.3 Concept of social accounting. Environmental concerns in national income: Concept of green accounting.

3. Theory of output and employment


- 3.1 Say's law of market and Classical theory of employment: critical analysis and Keynes' objections.
- 3.2 Principle of Effective Demand: Equality and Equilibrium of Aggregate Demand (AD) and Aggregate Supply (AS); Paradox of Thrift.


Unit 4. Fiscal and Monetary Policy

- 4.1 Fiscal Policy target and instruments
- 4.2 Monetary Policy objectives, target and instruments

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





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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 Blanchaed, macroeconomics, Pearson Education, Inc., 5th edition, 2009.*
8. *Andrew B. Abel and Ben S. Bernanke, Macroeconomics, Pearson Educations, Inc., 7th edition, 2011*

Semester II
ECOMJ-3
Indian Economy

Course Outcome: The course on Indian Economy examines issues relating to the evolution and performance on all aspects of the Indian economy. It is based on the concepts of development economics. The course is fairly exhaustive and is useful for increasing the general awareness of students on issues affecting the Indian Economy.

For End Semester Examination (ESE 75 marks, 3Hrs Exam): There will be two group of questions. **Group A is compulsory** which will contains three questions. **Question no. 1 will be very short answer** type of 1 mark each. Question No. 2 & 3 will be **short answer type** of 5 marks each. Group B will contain descriptive type six question of fifteen marks each, out of which any four are to answer.

1. 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

2. Unit 2 Demography

- 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.

3. 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

4. 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.



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, OxfordUniversity 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)*

SEMESTER-III

ECOMJ-4

Introductory Statistics for Economics

Course Outcome: Students will learn to identify, compile, interpret and analyse quantitative economic data using statistical methods like mean, median, mode and advanced regression analysis to assess economic relationships. Students will be provided with the theoretical concepts, tools and methods of statistics.

For End Semester Examination (ESE 75 marks, 3Hrs Exam): There will be two group of questions. **Group A is compulsory** which will contains three questions. **Question no. 1 will be very short answer** type of 1 mark each. Question No. 2 & 3 will be **short answer type** of 5 marks each. Group B will contain descriptive type six question of fifteen marks each, out of which any four are to answer.

1. 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

2. Unit 2: Univariate Analysis

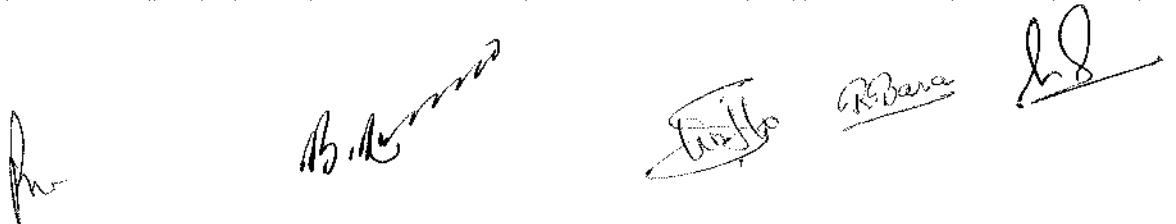
- 2.1. Measures of Central Tendency –Arithmetic Mean,Median,Mode, Geometric Mean and Harmonic Mean
- 2.2. Measures of Dispersion – Range, Mean Deviation, Standard
- 2.3. Deviation, Coefficient of Variation and Quartile Deviation
- 2.4. Skewness and Kurtosis

3. 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

4. Unit 4: Probability

- 4.1. Basic Concepts – Random Experiments, Sample Space and Events
- 4.2. Definition of Probability – Classical, Statistical and Axiomatic
- 4.3. 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

Semester-III
ECOMJ-5
Public Finance

Course Outcome: Considering the increasing role of Government in economy, this course aims to generate theoretical and empirical understanding of students about different aspect of Governmental activities and their rationality. It covers fundamental concepts of public economics, public expenditure, public revenue, and public debt with special reference of Indian economy.

For End Semester Examination (ESE 75 marks, 3Hrs Exam): There will be two group of questions. **Group A is compulsory** which will contains three questions. **Question no. 1 will be very short answer** type of 1 mark each. Question No. 2 & 3 will be **short answer** type of 5 marks each. Group B will contain descriptive type six question of fifteen marks each, out of which any four are to answer.

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

Unit 2: Public Expenditure

- 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.

Unit 3: Taxation

- 3.1: Taxation: Meaning, Canons of Taxation; Classification of Taxes.
- 3.2: Division of tax burden—The Benefit Approach; Ability-to-Pay Approach.
- 3.3: Impact and Incidence of Taxes, Taxable Capacity, Effects of Taxation
- 3.4: 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 4: Public Debt and Financial Administration

- 4.1: Public Debt: Meaning, Types, Sources and Need.
- 4.2: Effects of Public Debt; Burden of Public Debt.
- 4.3: Methods of Debt Redemption.
- 4.4: The Public Budget—Kinds of budget; Economic and Functional Classification of Budget; Preparation of Budget in India, Current Budget Analysis

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 Mc Graw 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.*

Semester-IV
ECOMJ-6
Money Banking

Course Outcome: Upon competition of the paper Money & Banking students will understand the role of money and banks in the broader economy. Specially, students will have an understanding of the unique role of banks in the financial system. Students will also learn the relevance of the Reserve Bank and related central banking topics, including the causes, policy responses, and lessons associated with the current financial market.

For End Semester Examination (ESE 75 marks, 3Hrs Exam): There will be two group of questions. **Group A is compulsory** which will contains three questions. **Question no. 1 will be very short answer type** of 1 mark each. Question No. 2 & 3 will be **short answer type** of 5 marks each. Group B will contain descriptive type six question of fifteen marks each, out of which any four are to answer.

Unit 1: Money

- 1.1: Money: Meaning and Function: Role of Money in Capitalistic, Socialistic and Mixed Economies.
- 1.2: Quantity Theory of Money: Cash Transactions Approach and Cash Balance Approach.
- 1.3: Keynesian Theory of Money and Prices.

Unit 2: Central Banking

- 2.1: Objectives, Functions and Limitations of Central Bank with reference of RBI.
- 2.2: Supply of Money: Concept, Components and Aggregates; Money Multiplier.
- 2.3: Quantitative and Qualitative Methods of Credit Control.
- 2.4: Objectives, Functions and Limitations of Money Market: Developed and Developing with special reference to India.

Unit 3: Commercial Banking

- 3.1: Meaning, Types, Functions and Principles of Commercial Banks.
- 3.2: Structure and Balance Sheet of a Commercial Bank; Assets and Liabilities.
- 3.3: Process of Credit Creation.
- 3.4: Commercial Banking in India: Evaluation of Banking Sector since Independence; Critical Appraisal of Commercial Banking after Nationalization; Recent Banking Reforms.

Unit 4: Financial Markets

4.1: Banking System; Bond Market; Foreign Exchange Market; Equity Market – Concepts.

4.2: Introduction to the Concept of Derivatives.

4.3: Futures; Options; Call/Put.

Suggested Readings-

1. *The Economics of Money, Banking and Financial Markets- Frederic S Mishkin (Pearson)*
2. *A Treatise on Money- J M Keynes*
3. *Financial Markets, Banking and Monetary Policy- Thomas D Simpson*
4. *Monetary Economics- Institutions, Theory and Policy- T.T. Sethi (S.Chand & Company)*
5. *Monetary Economics- M.L.Seth Hn. Ed. (Lakshmi Narayan Agarwal, Agra)*
6. *Financial Stability Report- RBI*
7. *Monetary Policy Report- RBI*

Semester-IV
ECOMJ-7
Environmental Economics

Course Outcome: This course is meant to provide students an exposure to approaches in environmental economics. It also provides theoretical and applied understanding on diverse frameworks of national and global environmental problems, analytical tools, institutional and regulatory mechanisms etc.

For End Semester Examination (ESE 75 marks, 3Hrs Exam): There will be two group of questions. **Group A is compulsory** which will contains three questions. **Question no. 1 will be very short answer** type of 1 mark each. Question No. 2 & 3 will be **short answer type** of 5 marks each. Group B will contain descriptive type six question of fifteen marks each, out of which any four are to answer.

1. 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

2. 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.

3. 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.

4. 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.Eugene, 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 IV
ECOMJ- 8
Jharkhand Economy

Course Outcome: This course will provide in-depth knowledge of the Economy of Jharkhand. The course will be helpful for students to know about their rural economy. Students will get to know the basic concepts related to rural development & will develop a proper understanding of the rural situation and the need for rural development in India.

*For End Semester Examination (ESE 75 marks, 3Hrs Exam): There will be two group of questions. **Group A is compulsory** which will contains three questions. **Question no. 1 will be very short answer type of 1 mark each.** Question No. 2 & 3 will be **short answer type of 5 marks each.** Group B will contain descriptive type six question of fifteen marks each, out of which any four are to answer.*

UNIT 1: Jharkhand Economy and it's 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, Public Finance trends in Jharkhand
- 1.3 Composition, Production and Productivity in Agriculture in Jharkhand; Agricultural Growth in Jharkhand.
- 1.4 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

- 31 Status of poverty in Jharkhand; Major Poverty Alleviation Programs in Jharkhand and their outcomes, MGNREGA, PMGSY, NRLM,
- 32 Unemployment in Jharkhand- status and trend in Rural and Urban areas
- 33 Status of food security in Jharkhand; Food security schemes: Child and Women malnutrition in Jharkhand
- 34 Status of Education and Health indicators in Rural and Urban

R *B. K.* *Booth* *R. Bose* *hp*

areas of Jharkhand- literacy rates, Enrollment Ratios, Mortality rates, Maternal mortality rates, Child Mortality rates in Jharkhand etc

- 3.5 *Rural- Urban Migration and Intra state migration in Jharkhand, Causes of Migration*

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*

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 Jhu, Shipra Publications*

SEMESTER - V
ECOMJ-9
History of Economic Thought

Course Outcome: At the completion of this course, students will have gained an understanding of some historically important concepts of the political economy and economics. They will have acquired a broad understanding of the evolution of economic thinking in the long period of time.

*For End Semester Examination (ESE 75 marks, 3Hrs Exam): There will be two group of questions. **Group A is compulsory** which will contains three questions. **Question no. 1 will be very short answer** type of 1 mark each. **Question No. 2 & 3 will be short answer** type of 5 marks each. **Group B** will contain descriptive type six question of fifteen marks each, out of which any four are to answer.*

1. Unit 1: Early Period

- 1.1. Mercantilism.
- 1.2. Physiocracy.

2. 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.

3. Unit 3: The Marginalist & Keynesian Revolution

- 3.1. Jevons and Walrus.
- 3.2. Neo-Classical Thought: Alfred Marshall
- 3.3. Historical Background of Keynesian Revolution and the Great Depression.
- 3.4. Economic Ideas of J. M. Keynes – Under Employment Equilibrium, Inflation, Role of Monetary Policy.

4. Unit 4: Indian Economic Thought

- 4.1. Economic ideas of Kautaliya
- 4.2. Economic Ideas of Mahatma Gandhi.
- 4.3. Economic Ideas of Amartya Sen
- 4.4. Economic ideas of Abhijit Banerjee

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Suggested Readings- ✓

1. R. Black house, *History of modern economic analysis* (Basil black well oxford)
2. J.R. Hicks, *Value and capital and growth* (London press Oxford)
3. B.N.L. Ganguli, *Indian economic thoughts*
4. T.N. Hazella, *Arthik Vicharon Ka Itihas*, Ane Books Pvt. Ltd.
5. T.N. Hazella, *History of Economics*, Ane Books Pvt. Ltd.
6. Abhijit V.Banerjee & Esther Buflo, *Poor Economics, Public Affairs*
7. Amiya Kumar Dasgupta, *A History of Indian Economic Thought*, Oxford University Press
8. M.L. Jingan, *History of Economic Thought*, Vrinda Publication

**Semester ~~X~~
ECOMJ 10
Advanced Macroeconomics**

Course Outcome: *Advanced Macroeconomics paper provides theoretical foundation of some advanced issues and policies. The paper attempts to discuss the functional relationships between economic aggregates. It helps understand the overall structure of the economy in a theoretical perspective at higher level.*

*For End Semester Examination (ESE 75 marks, 3Hrs Exam): There will be two group of questions. **Group A is compulsory** which will contains three questions. **Question no. 1 will be very short answer** type of 1 mark each. Question No. 2 & 3 will be **short answer type** of 5 marks each. Group B will contain descriptive type six question of fifteen marks each, out of which any four are to answer.*

1. Consumption and Saving Function

- 1.1 Consumption Function and Savings Function: APC and MPC; APS and MPS; Factors affecting Consumption Function; Psychological law of consumption
- 1.2 Investment Function: Autonomous and Induced Investment; MEC and Rate of Interest.
- 1.3 Investment Multiplier and its Effectiveness in Less Developed Countries.
- 1.4 Theory of Acceleration

Unit 2. Trade Cycles

- 2.1 Nature and characteristics of Trade Cycle
- 2.2 Hawtrey's Monetary Theory of Trade Cycle
- 2.3 Hayek's Over-Investment Theory of Trade Cycle.
- 2.4 Keynesian Views on Trade Cycle

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: Simple Income Determination Model in a closed economy

- 4.1 Keynesian and Classical Models
- 4.2 IS-LM income and interest determination.

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ECONOMICS (Honours) FYUGP Syllabus BBMK University Revised

Suggested Readings

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 Educations, Inc., 7th edition, 2011

Semester **V**
ECOMJ 11

Economics of Market, Distribution & Welfare





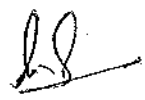
Course Outcome: The Outcome of the paper is to analyse the economic behaviour of individuals, firms and markets. It is mainly to equip the students in a rigorous and comprehensive understanding with the various aspects of consumer behaviour and Economic Welfare, Firms behaviour and the theory of imperfect markets and equilibrium in different conditions.

For End Semester Examination (ESE 75 marks, 3Hrs Exam): There will be two group of questions. **Group A is compulsory** which will contains three questions. **Question no. 1 will be very short answer** type of 1 mark each. Question No. 2 & 3 will be **short answer** type of 5 marks each. Group B will contain descriptive type six question of fifteen marks each, out of which any four are to answer.

- 1. **Unit 1: Market Structure & Equilibrium under Perfect Competition and Monopoly**
 - 1.1. Forms of Market: Perfect and Imperfect Markets; their Salient Features.
 - 1.2. 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.
 - 1.3. Monopoly: Meaning; Price and Output Determination (Short Run and Long Run); Price Discrimination

- 2. **Unit 2 : Equilibrium under Monopolistic Competition & Duopoly**
 - 2.1. Monopolistic Competition: Meaning & Characteristics; Price and Output Determination (Individual and Group Equilibrium); Importance of Selling Costs.
 - 2.2 Duopoly: Meaning and Characteristics; Non-Collusive Cournot model
 - 2.3 Oligopoly: Meaning & Characteristics, Kinked Demand Curve Theory.

- 3. **Unit 3: Input Markets & Factor Pricing**
 - 3.1. Input Demand-Derived Demand; Input Demand Curve of a Firm under Perfect and Imperfect Markets.
 - 3.2. Marginal Productivity Theory of Distribution: Adding-Up Problem (Euler's Theorem).
 - 3.3. Theories of Wage determination: Demand and Supply Theory; Collective Bargaining.
 - 3.4. Rent: Ricardian and Modern Theory.
 - 3.5. Interest: Classical and Keynesian Theories.
 - 3.6. Profit: Innovation, Risk and Uncertainty Theories.

4. Unit 4: Welfare Economics

- 4.1. *Concept of Welfare: Value Judgement; Problems in Measuring Welfare.*
- 4.2. *Classical Welfare Economics: Pigou – Marginal Social and Marginal Private Net Costs & Products; Externalities and Welfare Maximisation.*
- 4.3. *Pareto's Criterion of Measuring Welfare; Pareto Optimality*
- 4.4. *Compensation Criteria- Hicks, Kaldor and Scitovsky*

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. Stieglitz and Carl E. Walsh, Economics, W.W. Norman & Company.*
4. *C. Snyder and W. Nicholson, Fundamentals of Micro Economics, Centage Learning, India.*
5. *B. Douglas Bernheim and Michael D. Winston, Micro Economics, Tata McGraw Hill, 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.*
9. *Karl E. Case and Ray C. Fair, Principles of Economics, Pearson Education Inc.*
10. *N. Gregory Mankiw, Economics: Principles and Applications, Centage Learning India Private Limited.*
11. *Joseph E. Stieglitz and Carl E. Walsh, Economics, W.W. Norman & Company.*
12. *C. Snyder and W. Nicholson, Fundamentals of Micro Economics, Centage Learning, India.*
13. *B. Douglas Bernheim and Michael D. Winston, Micro Economics, Tata McGraw Hill, India.*
14. *Alfred W. Stonier and Douglas C. Hague, A Textbook of Economic Theory, E L BS and Longman Gr. Ltd.*
15. *H.L. Ahuja, Advanced Economic Theory, S. Chand Publication, New Delhi*
16. *M.L.Seth, Micro Economics, Lakshmi Narayan Publication, Agra.*

Semester VI

ECOMJ 12

Principles of Agriculture Economics

Course Outcome: To Understand the agricultural policies and its effect on sustainable agricultural development. Understand the globalization and its impact on agricultural development.

For End Semester Examination (ESE 75 marks, 3Hrs Exam): There will be two group of questions. **Group A is compulsory** which will contains three questions. **Question no. 1 will be very short answer** type of 1 mark each. Question No. 2 & 3 will be **short answer type** of 5 marks each. Group B will contain descriptive type six question of fifteen marks each, out of which any four are to answer.

1. 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.

2. UNIT 2: PRINCIPLES OF AGRICULTURAL ECONOMICS






- 2.1. Farm Management; Features and Kinds of farm ownership
- 2.2. Farm size and productivity
- 2.3. Intensive and extensive cultivation
- 2.4. Classification of agricultural products (cash and food crops, cereal and non-cereal crops)
- 2.5. Agricultural finance
- 2.6. Agriculture marketing

3. UNIT 3: PRINCIPLES OF AGRICULTURAL PRODUCTION

- 3.1. Production and Production Functions
- 3.2. Factors-Product Relationship
- 3.3. Factor-Factor Relationship
- 3.4. Laws of Returns
- 3.5. Product-Product Relations

4. UNIT 4: PRINCIPLES OF AGRICULTURAL COST AND PRICING

- Cost relationships and Profit maximization
- Agricultural Price Determination
- Supply behavior in Agriculture
- Risk and uncertainty in Farming

Suggested Readings-

1. Andrew Barkley, *Principles of Agricultural Economics*, Routledge Taylor and Francis, London and New York.
2. Sadhu, A.N. and Singh Amarjeet : *Fundamental of Agricultural Economics*, Himalaya Publishing House, New delhi.
3. Lekhi, R.K. & Singh, Joginder: *Agricultural Economics-An Indian Perspective*, Kalyani Publishers, New Delhi.
4. Raju V.T, & Vishnu Shankar Rao: *Economics of Farm Production and Management*; Oxford & IBH Publishing Co. Pvt.Ltd.
5. Bilgramy, S.R.: *An Introduction to Agricultural Economics*
6. Sonv, R.N.: *Leading Issues in Agricultural Economics*
7. Agrawal, N.L.: *Hkkjrh; d'f'k dk vFkZra=] jktLFkku fganh xzaFk vdkneh] t; iqj*
8. Gupta, P.K.: *Agricultural Economics*, Vrinda Publicashans Pvt. Ltd.
9. Tyagi, B.P. & Singh, H.P : *New Agricultural Economics & Rural Development*

Semester VI
ECOMJ 13
Growth & Development

Course Outcome: The paper provides fundamental foundation of basic growth and development issues, approaches and models. The paper attempts to discuss the structure and change in variables. It helps understand the overall static and dynamic perspectives of the economy in a purely theoretical perspective.

For End Semester Examination (ESE 75 marks, 3Hrs Exam): There will be two group of questions. **Group A is compulsory** which will contains three questions. **Question no. 1 will be very short answer** type of 1 mark each. Question No. 2 & 3 will be **short answer type** of 5 marks each. Group B will contain descriptive type six question of fifteen marks each, out of which any four are to answer.

1. 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.

2. 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
- 2.5. Feldman Model

3. Unit 3 : Leading Issues in Poverty, Inequality and Development

- 3.1. Meaning of Poverty; Absolute & Relative Poverty; Characteristics of Poverty.
- 3.2. Measurement of Poverty : Income based measures and Poverty Line, Non-monetary Measures (PQLI)
- 3.3. Poverty Traps in Developing Nations; Factors contributing to Vicious Circle of Poverty
- 3.4. Concept of Economic Inequality, Criteria of Economic Inequality;
- 3.5. Measurement of Inequality : The Lorenz Curve; GINI Coefficient

4. 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 In flow; MNC and Economic Growth.

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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 (1955)- *Economic Growth & Economic Inequality*, *American Review*, vol. 45
7. *Arthik Samvridhi evam Vikas*, Sahitya Bhawan Publications

Semester-VI

ECOMJ 14

Introductory Mathematics for Economics

Course Outcome: This paper is to develop mathematical approach in analysis of economic problems. It mainly focuses on those mathematical techniques which are directly useful in economic analysis. All the techniques are explained with examples of economics.

For End Semester Examination (ESE 75 marks, 3Hrs Exam): There will be two group of questions. **Group A is compulsory** which will contains three questions. **Question no. 1 will be very short answer** type of 1 mark each. Question No. 2 & 3 will be **short answer type** of 5 marks each. Group B will contain descriptive type six question of fifteen marks each, out of which any four are to answer.

1. 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

2. Unit 2: Limit and Differentiation




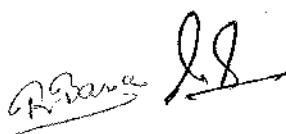
- 2.1. Limit: Concept; Rules
- 2.2. Differentiation: Nature; Rules; Techniques of Simple differentiation
- 2.3. Maxima and Minima: First Order and Second Order Conditions; Point of Inflexion; Application of Maxima and Minima in Economics : Equilibrium of the Firm under Perfect Competition and Monopoly,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

3. Unit 3: Integration

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

4. Unit 4: Matrix and Determinants

- 4.1. Various Types of Matrices.
- 4.2. Matrix Operations.
- 4.3. Determinants.
- 4.4. Inverse of a Matrix, Rank of Matrix
- 4.5. 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.
6. *Srivastava, R, A Textbook on Advanced Mathematical Economics*, Disha International Publishing House

Semester-VI

ECOMJ 15

International Economics

Course Outcome: The student will be acquainted with economic concepts and models of international trade. Student will become aware of international trade and their importance.

For End Semester Examination (ESE 75 marks, 3Hrs Exam): There will be two group of questions. **Group A is compulsory** which will contains three questions. **Question no. 1 will be very short answer type of 1 mark each.** Question No. 2 & 3 will be **short answer type of 5 marks each.** Group B will contain descriptive type six question of fifteen marks each, out of which any four are to answer.

Unit 1: Scope of International Economics

- 1.1 International Economics: Definition, Nature and Importance.
- 1.2 Gains from Trade: Their Measurement and Distribution.
- 1.3 Absolute Cost Advantage; Comparative Cost Advantage (Ricardian); Heckscher - Ohlin Theory of International Trade.

Unit 2: International Trade Policy & Free Trade vs. Protection.

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

Unit 3: Balance of Payment & International Financial Institutions and India

- 3.1 Concepts and Components of Balance of Trade and Balance of Payment.
- 3.2 Equilibrium and Disequilibrium in Balance of Payment; Consequences of disequilibrium in Balance of Payment; Measures to Correct Deficit in the Balance of Payments.
- 3.3 Functions of IMF; World Bank; WTO with reference to India.
- 3.4 Need and Importance of Foreign Capital in Developing Economies.

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Unit 4 Foreign Exchange

- 4.1 Exchange Rate Determination: Gold Standard (Mint Parity);
- 4.2 Purchasing Power Parity Theory
- 4.3 Fixed and Floating Exchange Rate
- 4.4 Devaluation and Appreciation of Currency & impact on International Trade.

Suggested Readings-

1. J.Bhagwati, International Trade, Cambridge Univ. Press
2. M.L. Verma, International Trade, Vikas Pub. Press
3. S.K. Singh, International Monetary System – Trends & Issues, Indus Publishing Company
4. H.G. Mannur, International Economics, Vikas publication
5. Paul R Krugman, International Economics- Theory and Practice, Pearson Publication
6. D. Salvatore, International Economics, Wiley India
7. Sachdeva, International Economics, Vikas Bharati Publication
8. Vaishya & Sachdeva Singh - Antarashtriya Arthshastra, Oxford & IBH Com.
9. M.L. Jhingan, Antarrashtriya Arthshashtra, Vikas Publication.

Sem- VII

MJ-16: Planning Development & Problems of Indian Economy

Course Outcome: Upon completing this course, students will understand India's economic planning, assess development strategies, and analyze key economic challenges. They will evaluate contemporary policies and develop critical thinking skills for addressing economic issues.

Marks: 25(MSE)+75(ESE;3Hrs)= 100

For End Semester Examination (ESE 75 marks, 3Hrs Exam): There will be two group of questions. **Group A is compulsory** which will contains three questions. **Question no. 1 will be very short answer** type of 1 mark each. Question No. 2 & 3 will be **short answer type** of 5 marks each. Group B will contain descriptive type six question of fifteen marks each, out of which any four are to answer.

1. UNIT 1: Economic Development

- 1.1 India as a developing economy: Trends and Growth Pattern of Indian Economy
- 1.2 Population Explosion, Population Policy
- 1.3 Human Resource Development Policy and Human Development Index (HDI)- Calculation of HDI

2. UNIT 2: Planning and Development

- 2.1 Economic Planning: Planning Commission vs NITI Aayog
- 2.2 Five Year Plans in India: Strategy, Objectives, Achievements and Problems
- 2.3 Financing of Plans in India
- 2.4 Economic Reforms in India since 1991- An Appraisal of Economic Reforms
- 2.5 10th, 11th, 12th and 13th Five Year Plans

3. UNIT 3: Employment and Problems of Unemployment in India

- 3.1 3:1: Employment Trends and Structure of Employment in India
- 3.2 Nature and Concepts of Unemployment
- 3.3 Estimates of Unemployment and NSSO
- 3.4 Government's Policy for Removing Unemployment: Major Employment Programs- Mahatma Gandhi National Rural Employment Guarantee Scheme (MGNREGS), National Policy for Skill Development and Entrepreneurship, Pradhan Mantri Kaushal Vikas Yojana (PNKVY), Self-Employment Programme for The Urban Poor.

4. **UNIT 4: Poverty and Inequality in India**

- 4.1 Concept and Definition of Poverty in India- Poverty Line; Estimates of Poverty in India
- 4.2 Poverty Indexes; HPI and MPI
- 4.3 Poverty Alleviation Programmes: National Rural Livelihood Mission (NRLM); National Urban Livelihood Mission (NULM); Pradhan Mantri Kaushal Vikash Yojna; Pradhan Mantri Jan Dhan Yojana
- 4.4 Inequalities of Income Distribution in India- Lorenz Curve; Ginni Coefficient

5. **UNIT 5: Price Rise and Inflation in India**

- 5.1 Factors Responsible for Rising Prices; Effects of Price rise
- 5.2 Measurement of Inflation: Wholesale Price Index (WPI) and Consumer Price Index (CPI)
- 5.3 Inflationary Experience in India: Inflation in Post Reform Period
- 5.4 Government Measures to Contain Inflation: Fiscal and Administrative Measures, Budgetary and Other Measures, Monetary Measures

Suggested Readings-

1. Bhagwati, J. (2012): Reforms and Economic Transformation in India.
2. Kapila, Uma (2008): Indian Economy since Independence (Latest Edition)
3. Puri, V.K. and Mishra, S.K. (2018): Indian Economy, Himalaya Publishing House. (Hindi/English)
4. Dutt, R. and Mahajan, B.D. (2018): Indian Economy, S. Chand Publications, New Delhi. (Hindi/English)
5. Economic Surveys , Govt. of India (Hindi/English)
6. RBI Bulletins
7. Human Development Reports (HDR) of UNDP

Sem- VII

MJ-17 : ECONOMICS OF SOCIAL SECTOR

Course Outcome: This course equips students with a comprehensive understanding of the social sector's economic dimensions. They will analyze development strategies, assess policy impacts, and cultivate critical thinking skills to address socio-economic challenges.

Marks: 25(MSE)+75(ESE;3Hrs)= 100

For End Semester Examination (ESE 75 marks, 3Hrs Exam): There will be two group of questions. **Group A is compulsory** which will contains three questions. **Question no. 1 will be very short answer** type of 1 mark each. Question No. 2 & 3 will be **short answer type** of 5 marks each. Group B will contain descriptive six question of fifteen marks each, out of which any four are to answer.

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

- 2.1 Human Capital Vs Physical Capital
- 2.2 Demand for Education – Private Demand and Social Demand; Determinants of demand for education
- 2.3 Costs of education- Private costs and Social costs; Wastage and Stagnation in education
- 2.4 Benefits of education - Private and Social benefits; Cost benefit analysis of education.

Module III: Health-Importance and Economics

- 3.1 Importance of Health in Economic Development
- 3.2 Meaning of Health; Determinants of health; Various Measurements of Health: Mortality and morbidity factors influencing health
- 3.3 Poverty, malnutrition and environmental issues affecting health
- 3.4 Economic dimensions of health care – Demand and supply of health care; Financing of health care and resource constraints in health care and its delivery
- 3.5 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.

ECONOMICS (Honours) FYUGP Syllabus BBMK University Revised

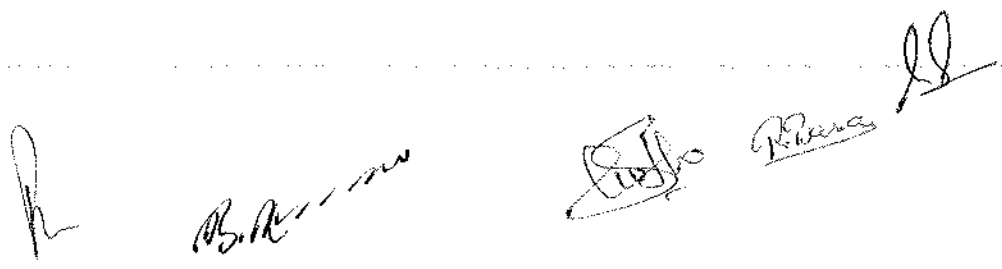
- 4.3 Financing of Health; Private and Public Health Service
- 4.4 Public Health delivery mechanism; Public Expenditure on Health

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
- 5.5 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.
- 5 Human Development Report (UNDP), World Development Report (World Bank)
- 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



Sem- VII

MJ-18: Human Development Dimensions and India

Course Outcome: This course equips students with a comprehensive understanding of human development dimensions in India. They will explore key areas such as health, education, gender equality, and economic participation, analyzing development strategies and policy impacts. Through critical thinking, students will assess socio-economic challenges and evaluate initiatives aimed at improving human development outcomes.

Marks: 25(MSE)+75(ESE;3Hrs)= 100

For End Semester Examination (ESE 75 marks, 3Hrs Exam): There will be two group of questions. **Group A is compulsory** which will contains three questions. **Question no. 1 will be very short answer** type of 1 mark each. Question No. 2 & 3 will be **short answer type** of 5 marks each. Group B will contain descriptive type six question of fifteen marks each, out of which any four are to answer

Unit 1 Introduction

1.1 Meaning and Importance of Human Development ; Indicators of Human Development

1.2 Human Development and Economic Development- two way linkage

1.3 Human Development - Components; Human Development Indices- HDI, PQLI, MPI

Unit II Health and Development

2.1 Health: Meaning; Determinants of health; Measures of health; Importance of Health in Economic Development

2.2 Nutrition: Meaning; Components; Relationship between Nutrition and health
Malnutrition ; Life expectancy

2.3 Inequalities in Health in India with special reference to Sex, Residential Status(Urban/Rural)

Unit III Education and Development

3.1 Education: Meaning ,Importance of Education in Economic Development

3.2 Measures of Education : Enrolment Ratio- Gross and Net ; Meaning and importance of Literacy ; Meaning and concepts of Literacy Rates- Literacy rate, Adult Literacy rate. Youth literacy rate, Female literacy rate

3.3 New Education Policy 2020

Unit IV Gender Dimensions in Human Development

- 4.1 Importance of women in economic development; Meaning of women empowerment; Importance of women empowerment
- 4.2 Health of Women: Importance; India's Gender bias in health, nutrition, Sex ratio
- 4.3 Education of women: Importance; Gender differences in literacy rates, enrolment, dropouts in India
- 4.4 Social and Economic causes of poor health and education of women in India
- 4.5 Income of women- Extent of inequality in India and causes
- 4.6 Measures of Gender inequality : Gender-related Development Index(GDI), GenderInequality index (GII)

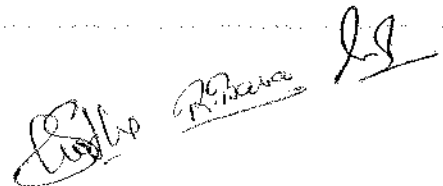
Unit V Human Development in India

- 5.1 India Human Development Report; Trend of Human Development Index in India; Reasons for recent improvement in India's HDI
- 5.2 India's HDI rank and reasons for low ranking; Poverty in India- India's Human Poverty Index (HPI) and Multidimensional Poverty Index (MPI) ; Ginni coefficient of income Inequality in India; Gender inequality index(GII) in India
- 5.3 India's initiatives for human development- Sarv-Siksha Abhiyan; Aayushman Bharat; National Food Security Mission; Pradhan Mantri Jan Dhan Yojna; Kaushal Vikas Yojna

Suggested Readings

1. Human Development Reports (UNDP)
2. Arya P P and B B Tandon(Eds) Human Resource Development; Deep and Deep; New Delhi
3. Himanshu Shekhar Rout and S B Murthy; Human Development in India: Challenges and Policies; New Century Publications
4. Goel S L and P N Gautam; Human Resource Development in the 21st Century- Concept and Case Studies; Deep and Deep Pub; New Delhi
5. Himanshu S Rout and Padmaja Mishra; Social Sector in India- Issues and Challenges;
6. Dr Jeyasingh , Dr Solomon Raj and Dr D J Josephine; Health Economics; Creative Crows Publisher LLP
7. Abhijit Banerjee and Esther Duflo; Poor Economics; Public Affairs Publication





Sem- VII

MJ-19: MONEY AND FINANCIAL MARKETS

Course Outcome: This course provides students with an in-depth insight into money and financial markets. It covers fundamental concepts and theories of money, the role of financial institutions, the structure of money and capital markets, interest rate mechanisms, and foreign exchange markets. Students will develop critical thinking skills to examine market dynamics, evaluate policy implications, and assess various financial instruments and innovations.

Marks: 25(MSE)+75(ESE;3Hrs)= 100

For End Semester Examination (ESE 75 marks, 3Hrs Exam): There will be two group of questions. **Group A is compulsory** which will contains three questions. **Question no. 1 will be very short answer** type of 1 mark each. Question No. 2 & 3 will be **short answer type** of 5 marks each. Group B will contain descriptive type six question of fifteen marks each, out of which any four are to answer

Unit 1: Money

- 1.1: Concept, Functions, Measurement;
- 1.2: Theories of money supply determination

Unit 2: Financial Institutions

- 2.1: Role of Financial Markets and Institutions
- 2.2: Financial Instruments : Cash and Derivative Instruments; Debt and Equity Instruments.

Unit 3: Money Market and Capital Market

- 3.1: Money Markets: Organisation, Structure; Instruments; Functions and Limitations;Reforms in India
- 3.2:Money Market: Organised and Unorganised sector, Characteristics of a developed money market
- 3.3:Capital Market: Primary and Secondary
- 3.4:Role of Financial Derivatives and other innovations; Futures and Options; Call and Put options.
- 3.5:Types of Market: Stock Market, Bond Market , Commodity Market , Derivatives Market

Unit 4: Interest Rates

- 4.1 : Determination; Sources of interest rate differentials
- 4.2: Theories of term structure of interest rates
- 4.3: Interest rates in India

Unit 5: Foreign Exchange Market

- 5.1:Foreign Exchange; foreign exchange rate; foreign exchange market
- 5.2:Concept of spot exchange rates and forward exchange rates
- 5.3: Determination of exchange rates under Fixed and Flexible exchange rate regimes

Suggested Readings-

1. Richard T. Froyen , Macroeconomics, Pearson Education Asia.
2. F S Mishkin and S. G. Eakins, Financial Markets and Institutions, Pearson Education
3. F.J. Fabozzi, F. Modigliani, F. J . Jones, M. G. Ferris, Foundations of Financial Markets and Institutions, Pearson Education
4. L.M. Bhole and J Mahukud, Financial Institutions and Markets, Tata McGraw Hill
5. Edward Shapiro, Macroeconomic Analysis, Galgotia Publications, New Delhi
6. Suraj B. Gupta, Monetary Economics- Institutions, Theory and Practices, S. Chand & Company, New Delhi.

Sem VIII

MJ 20: Gender and Development

Course Outcome: This course enables students to understand gender disparities in economic, social, and demographic contexts, with a focus on India. Students will critically analyze the socio-economic status of women, explore policies for gender equality, and assess the role of women in economic growth and development. The course also fosters awareness of gender-sensitive policies, empowerment initiatives.

Marks: 25(MSE)+75(ESE;3Hrs)= 100

For End Semester Examination (ESE 75 marks, 3Hrs Exam): There will be two group of questions. **Group A is compulsory** which will contains three questions. **Question no. 1 will be very short answer** type of 1 mark each. Question No. 2 & 3 will be **short answer type** of 5 marks each. Group B will contain descriptive type six question of fifteen marks each, out of which any four are to answer

Unit 1: Demography of female population

- 1.1 Female Age structure; Literacy; Occupational Pattern; Mortality rates; and Sex Ratio.
- 1.2 Causes of Declining Sex Ratios and Fertility rates in LDCs, particularly India.
- 1.3 Factors Affecting Access of Women to Nutrition, Health and Education.

Unit 2: Economic Growth and Gender Equality

- 2.1 Women's Contribution to GDP in India;
- 2.2 Two-Way Relationship between Economic growth and Gender Inequality/Equality.
- 2.3 Feminisation of Poverty - Concept and Causes.
- 2.4 Gender Budgets – Meaning; Importance.
- 2.5 Gender Issues in the Millennium Development Goals.
- 2.6 Incorporation of the Gender Factor into the Human Development Index - Gender Development Index (GDI); Gender Empowerment Measure (GEM).

Unit 3: Socio-Economic Status of Women

- 3.1 Female Work-Participation and Gender Differentials in Labour Market; Factors affecting Female Entry in Labour Market in India;
- 3.2 Income Level and Gender Differentials in India; Health of Women in India and Gender Differences; Education of women in India and Gender differences
- 3.3 Asset Ownership of Women; Inheritance Rights of Women.

Unit 4: Development of Women

- 4.1 Social security of women: Meaning; Entitlements; Status;
- 4.2 Women Empowerment: Meaning, Indicators and Importance;
- 4.3 Role of Self-Help Groups in Providing Social Security;
- 4.4 Government Schemes for Safety-Net of Women;
- 4.5 Democratic Decentralization (Panchayats) and Women's Empowerment in India;

Suggested Readings:

1. Boserup E. (1970), *Women's Role in Economic Development*, George Allen and Unwin, London.
2. Desai, N. and M.K. Raj. (Eds.) (1979), *Women and Society in India*, Research Centre for Women Studies, SNDT University, Bombay.
3. Government of India (1974), *Towards Equality — Report of the Committee on the Status of Women in India*.
Department of Social Welfare, Ministry of Education and Social Welfare, New Delhi.
4. Seth, M. (2000), *Women and Development: The Indian Experience*, Sage Publications, New Delhi.
5. Srinivasan K. and A. Shroff (1998), *India: Towards Population & Development Goals*, Oxford Univ Press, N. Delhi.
6. Venkateswaran, S. (1995), *Environment, Development and the Gender Gap*, Sage Publications, New Delhi.
7. Wazir. R. (2000), *The Gender Gap in Basic Education: NGOs as Change Agents*, Sage Publications, New Delhi.
8. Krishnaraj, M.R.M. Sudarshan and A. Shariff (1999), *Gender, Population and development*, Oxford Univ. Press, N. Delhi.



SEM VIII

Advance Major (AMJ)- There will be three groups of Advanced Major, (A, B & C) students will have to choose one of the following groups. Each group will have three papers.

GROUP- A Mathematical Economics and Econometrics

GROUP-B Agriculture Economics

GROUP C Industrial Economics

GROUP- A : Mathematical Economics and Econometrics

AMJ 1A : MATRIX AND OPERATIONS RESEARCH

Course Outcome: This course provides students with a comprehensive understanding of matrices and operations research. It covers matrix algebra, game theory, linear programming, and input-output analysis. Students will develop problem-solving skills, analyze optimization techniques, and apply mathematical models to solve real-world decision-making challenges.

Marks: 25(MSE)+75(ESE;3Hrs)= 100

For End Semester Examination (ESE 75 marks, 3Hrs Exam): There will be two group of questions. **Group A is compulsory** which will contains three questions. **Question no. 1 will be very short answer** type of 1 mark each. Question No. 2 & 3 will be **short answer type** of 5 marks each. Group B will contain descriptive type six question of fifteen marks each, out of which any four are to answer.

Unit 1: Introduction

- 1.1 Origin and Development of Operational Research
- 1.2 Definition and Meaning of Operational Research
- 1.3 Different Phases of an Operational Research Study
- 1.4 Scope and Limitations of Operational Research

Unit 2: Basic Matrix Algebra

- 2.1: Types of Matrices – Row and Column Vector; Identity; Singular; Diagonal; Symmetric and Skew symmetric
- 2.2: Addition, Subtraction and Multiplication of Matrices
- 2.3: Order of Matrices; Transpose of a Matrix; Minor; Cofactors and Inverse of a Matrix
- 2.4 : Properties of Determinant
- 2.5: Rank of a Matrix
- 2.6: Solutions of Equations by Matrix Inversion

Unit 3: Game Theory

- 3.1 : Game Theory: Introduction and Concepts.

- 32 : Pure Strategy: Saddle Point and its Existence
- 33 Mixed Strategy: Solution by using Dominance Rule and Graphical Method
- 34 Minimax Theorem.

Unit 4: Linear Programming

- 4.1: Linear Programming: Introduction and Concepts
- 4.2: Formulation of LPP
- 4.3: Graphical Solution of Linear Programming.
- 4.4: Special Cases in LPP
- 4.5: Duality: Definition of the Dual Problem, Primal –Dual Relationships, Economic Interpretation of Duality

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





AMJ 1B: INTRODUCTORY ECONOMETRICS

Course Outcome: This course equips students with the fundamental concepts and methodologies of econometrics, enabling them to build and interpret economic models. Students will develop skills in applying regression techniques, diagnosing model assumptions, and addressing violations like heteroscedasticity, autocorrelation, and multicollinearity. The course fosters analytical thinking for empirical research and economic data analysis.

Marks: 25(MSE)+75(ESE;3Hrs)= 100

For End Semester Examination (ESE 75 marks, 3Hrs Exam): There will be two group of questions. **Group A is compulsory** which will contains three questions. **Question no. 1 will be very short answer** type of 1 mark each. Question No. 2 & 3 will be **short answer type** of 5 marks each. Group B will contain descriptive type six question of fifteen marks each, out of which any four are to answer

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 – R² and Adjusted R²
- 3.5: Analysis of Variance (ANOVA) and Regression

Unit –IV: Violation of Classical Assumptions

- 4.1 : Heteroscedasticity – Causes, Consequences, Test and Remedial Measures
- 4.2 Autocorrelation- Causes, Consequences, Durbin– Watson Test, Remedial Measures. First Order Autoregressive Scheme, Mean, Variance and Co- variance of Auto correlated
- 4.3 Multicollinearity - Causes, Consequences, Test and Remedial Measures

Prakash

Ab. Hassan

Arshad

R. D. D. D.

Dr. S.

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

AMJ 1C: ADVANCED STATISTICS FOR ECONOMICS

Course Outcome: This course equips students with the fundamental concepts and methodologies of statistics, enabling them to build and interpret statistical tools. The course fosters analytical thinking and applied research and economic data analysis.

Marks: 25(MSE)+75(ESE;3Hrs)= 100

For End Semester Examination (ESE 75 marks, 3Hrs Exam): There will be two group of questions. **Group A is compulsory** which will contains three questions. **Question no. 1 will be very short answer** type of 1 mark each. Question No. 2 & 3 will be **short answer type** of 5 marks each. Group B will contain descriptive type six question of fifteen marks each, out of which any four are to answer

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: Definitions and Theorems of Probability, Probability Distribution and Mathematical Expectation

- 21 : *Definitions of Probability - Classical, Statistical and Axiomatic*
- 22 : *Theorems of Probability – Addition, Multiplication ; Baye’s Theorem and their Applications*
- 23 : *Probability Distribution – Binomial and Normal Distributions: Their Properties and Applications*
- 24 : *Mathematical Expectation – Meaning and Properties*

Unit 3: Sampling Distribution and Estimation

- 3.1 : *Sampling Distribution – Distribution of Sample Mean and Variance*
- 3.2 : *Sampling Distribution and Standard Error; Difference between Large & Small Samples*
- 3.4: *Estimation – Point and Interval Estimation; Properties of a Good Estimator*

Unit -4: Statistical Hypothesis Testing and Tests based on Large Sample, Small Sample & Chi –Square

- 4.1: *Definition of Hypothesis; Statistical Testing ; Hypothesis Formulation Principle*
- 4.2: *Testing Errors – Type I & Type II Errors*
- 4.3 : *Two tailed and One tailed Tests of Hypothesis*
- 4.4 : *Z Test – One tailed Test for Difference between Sample Mean and Population Mean; Two tailed test for Difference between the Means of Two Samples*

- 4.5 : *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
- 4.6 : Chi-Square (χ^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

GROUP-B Agricultural Economics

AMJ 2A: LEADING ISSUES IN INDIAN AGRICULTURE

Course Outcome: This course provides students with a comprehensive understanding of leading issues in Indian agriculture. It covers the structure of the rural economy, agricultural development, technological changes, and the state's role in agriculture. Students will develop critical thinking skills to analyze agricultural policies, assess rural infrastructure, and explore sustainable farming practices.

Marks: 25(MSE)+75(ESE;3Hrs)= 100

For End Semester Examination (ESE 75 marks, 3Hrs Exam): There will be two group of questions. **Group A is compulsory** which will contains three questions. **Question no. 1 will be very short answer** type of 1 mark each. Question No. 2 & 3 will be **short answer type** of 5 marks each. Group B will contain descriptive type six question of fifteen marks each, out of which any four are to answer.

UNIT 1: RURAL ECONOMY OF INDIA

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

UNIT 2: DEVELOPMENT OF AGRICULTURE

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

UNIT 3: TECHNOLOGICAL CHANGES IN AGRICULTURE

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

UNIT 4: STATE AND AGRICULTURE

- 41 : Agriculture Planning in India: Decentralized Planning and Indicative Planning
- 42 : Incentives in Agriculture; Price and Non- Price Incentives; Input Subsidies; Agriculture Price Policies (APP)
- 43 : Agricultural Marketing in India, Nature of Demand and Supply of Agricultural Products, Need for State Intervention
- 44 : Food Security in India and Public Distribution System.

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

AMJ 2B: DEMOGRAPHY

Course Outcome: This course provides students with a comprehensive understanding of leading issues in Indian agriculture. It covers the structure of the rural economy, agricultural development, technological changes, and the state's role in agriculture. Students will develop critical thinking skills to analyze agricultural policies, assess rural infrastructure, and explore sustainable farming practices.

Marks: 25(MSE)+75(ESE;3Hrs)= 100

For End Semester Examination (ESE 75 marks, 3Hrs Exam): There will be two group of questions. **Group A is compulsory** which will contains three questions. **Question no. 1 will be very short answer** type of 1 mark each. Question No. 2 & 3 will be **short answer type** of 5 marks each. Group B will contain descriptive type six question of fifteen marks each, out of which any four are to answer

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

- 4.1 : Sources of Demographic data: Census, Registration and Sample Survey- Their relative merits and demerit
- 4.2 : Population census, methodology and characteristics of census, nature of information collected in 1971, 1981, 1991, 2001 and 2011.
- 4.2 : Registration method in India
- 4.3 : 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.

AMJ 2C: RURAL DEVELOPMENT

Course Outcome: The students who undergo this programme are able to understand the socio- economic issues prevailing in rural areas and intervene meaningfully in areas of concerns. It opens avenues for employment in the Dept. of Rural Development and Panchayati Raj.

Marks: 25(MSE)+75(ESE;3Hrs)= 100

For End Semester Examination (ESE 75 marks, 3Hrs Exam): There will be two group of questions. **Group A is compulsory** which will contains three questions. **Question no. 1 will be very short answer** type of 1 mark each. Question No. 2 & 3 will be **short answer type** of 5 marks each. Group B will contain descriptive type six question of fifteen marks each, out of which any four are to answer

1 Unit 1: Structure of Rural Economy

- 1.1 Definition of Urban and Rural Areas.
- 1.2 Economic Characteristics of a Rural Economy with Special Reference to India.
- 1.3 Social Structure of Rural Areas.
- 1.4 Natural Resources in Rural Areas and Their Role in Life of Rural People.

2 Unit 2: Rural Governance

- 2.1 Meaning of Rural Governance.
- 2.2 Panchayati Raj Institutions in India.
- 2.3 Decentralized Governance - Importance and Limitations; Impact of Decentralized Governance on Rural Development.
- 2.4 Micro Finance - Role in Rural Upliftment.
- 2.5 Self Help Groups - Role in Women Empowerment.

3 Unit 3: Agriculture in Rural India

- 3.1 Contribution of Agriculture to GDP; Employment in Agriculture.
- 3.2 Types of Agriculture – Subsistence, Commercial Agriculture; Types of farmers - Marginal, Small, Medium and Large.
- 3.3 Land Use – Land Holding; Land Reforms.
- 3.4 Agricultural Marketing – Marketing Channels of Agricultural Products; Co-operative Marketing



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3.5 Agricultural Finance – Need for Agricultural Finance, Sources of Agricultural Finance: Kisan Credit card; Role of NABARD in Rural Development.

4 Unit 4: Demography in Rural India

4.1 Rural Population – Size, Sex and Age Distribution; Working Age Population in Rural Areas: Growth Rates of Rural Population.

4.2 Literacy - Rural Literacy Rates; Causes for Low Literacy Rate; Measures to Increase the Literacy in Rural Area.

4.3 Poverty - Meaning and Measure; Extent of Rural Poverty; Government Measures to Eradicate Rural Poverty.

4.4 Rural Unemployment - Meaning of Unemployment; Rural Work-Force Participation Rate; Gender Differentials in Rural Workforce Participation Rate; Government Measures to Reduce Rural Unemployment.

Suggested Reading:

1. Balaramulu: Public Policies: An Evaluation of Integrated Rural Development Programme”, Ajantha Publications, New Delhi, 1991.
2. Sheo Kumar Lal and Umed Rajnagar – Rural Social Transformation; Rawat Publications, 1992.
3. Jain S.C – Community Development and Panchayat Raj in India. Allied Publishers, 1967.
4. Kurian C.T – Poverty Planning and Social Transformation; Allied Publishers, 1978.
5. Agricultural Development Policy: Concepts and Experiences – Narton R.D; John Wiley and Sons Ltd., 2004.
6. Indian Agricultural Policy at the cross roads – S.S Acharya; Rawat Publications, 2013.
7. Indian Economy – A.N. Agarwal; New Age International Publications, 2019.
8. Indian Economy – Rudra Dutt and Sundaram, S Chand Publishers, Latest edition.
9. Mishra and Puri; Himalayan Publishing House, Latest edition7. Sankaran, K., &Kumar,M. (2010) Group Discussion and Public Speaking. M.I.Pub,Agra, Adams Media.

GROUP C: Industrial Economics

AMJ 3A: Indian Banking and Financial System

Course Outcome: This course helps students understand important issues in Indian agriculture, population, and the financial system. It covers topics like rural development, farming technology, population trends, and banking reforms. Students will gain skills to analyze policies and explore sustainable practices.

Marks: 25(MSE)+75(ESE;3Hrs)= 100

For End Semester Examination (ESE 75 marks, 3Hrs Exam): There will be two group of questions. Group A is compulsory which will contains three questions. Question no. 1 will be very short answer type of 1 mark each. Question No. 2 & 3 will be short answer type of 5 marks each. Group B will contain descriptive type six question of fifteen marks each, out of which any four are to answer

Unit 1: Banking System

- 1.1 : Balance Sheet and Portfolio Management
- 1.2 : Indian Banking System: Evolution, structure and changing role
- 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 : Instruments of monetary control; monetary management in an open economy
- 2.4 : Monetary Policy: Objectives and Limitations; Current Monetary Policy of RBI
- 2.5 : Policy Reforms in Indian Banking: Banking Sector Reforms- Narasimhan committee Report I and II
- 2.6 : 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
- 4.4 Banking and Financial Sector Reforms: Impact on Economic Growth in India.

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Suggested Readings-

1. M.Y. Khan , Indian Financial System, Tata McGraw Hill
2. David G. Luenberger, Investment Science, Oxford University
3. Thomas E. Copeland, J. Fred Weston and Kuldeep Shastri, Financial Theory and Corporate Policy, Prentice Hall.
4. S. Natarajan & R. Parmeshwaran, Indian Banking, S. Chand, New Delhi
5. Bharti V. Pathak, Indian Financial System , Pearson.
6. Padmalatha Suresh and Justin Paul, Management of Banking and Financial Services, Pearson.
7. Banking : An Introduction, Indian Institute of Banking and Finance.
8. Various Latest Issues of RBI Bulletins, Annual Reports, Reports on Currency and Finance.

AMJ 3B: INDUSTRIAL ECONOMICS

Course Outline: This course explores the key aspects of industrial economics, covering the structure and growth of industries, productivity, and financial resources. It also examines labour markets, employment challenges, and the role of public and private sectors in India's industrial development.

Marks: 25(MSE)+75(ESE;3Hrs=) 100

For End Semester Examination (ESE 75 marks, 3Hrs Exam): There will be two group of questions. **Group A is compulsory** which will contains three questions. **Question no. 1 will be very short answer** type of 1 mark each. Question No. 2 & 3 will be **short answer type** of 5 marks each. Group B will contain descriptive type six question of fifteen marks each, out of which any four are to answer.

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 Factors affecting Industrial Productivity
- 2.3 Importance of Productivity
- 2.4 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: Problems of Industries in India

- 4.1 Problems faced by Industries in India
- 4.2 Current status of Manufacturing Sector of India
- 4.3 Challenges and Concerns Related to Manufacturing Sector
- 4.4 Industrial Growth in India and its Challenges

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ECONOMICS (Honours) FYUGP Syllabus BBMK University Revised

Suggested 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, SagePublication, 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.

AMJ 3C: LABOUR ECONOMICS

Course Outline: Students in this course will get exposed to macroeconomic theories of wages and analysis of labour markets. The third component incorporates political economy analysis of labour in the process of production in rural and urban settings with an emphasis of informalisation of labour in the latter. Lastly, the course covers the impact of contemporary globalisation on labour and recent debates on flexibility of Indian labour laws, incorporating the role of state which is a direct fall out of globalisation

Marks: 25(MSE)+75(ESE;3Hrs=) 100

For End Semester Examination (ESE 75 marks, 3Hrs Exam): There will be two group of questions. **Group A is compulsory** which will contains three questions. **Question no. 1 will be very short answer** type of 1 mark each. Question No. 2 & 3 will be **short answer type** of 5 marks each. Group B will contain descriptive type six question of fifteen marks each, out of which any four are to answer.

Unit 1: 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 labours Market in India.

Unit 2: Labour in India and Social Security Measures

- 6.1 Meaning of Industrial Disputes; Causes and effects of Industrial Disputes; Machinery of setting the Industrial Disputes in India
- 6.2 Concepts of Social Security and labour welfare in India; Social Security Legislations in India; Second National Commission on labour (1999); Arjun sengupta Committee Report.

Unit 3: Wage

- 3.1 Wage determination, Classical Neo-Classical and Bargaining Theory of wagedetermination
- 3.2 Types of wages in India;
- 3.3 National wage Policy; State Regulation of Wage; WageBoard in India.
- 3.4 Determinants of the Female-Male Wage Ratio

Unit 4: Urban informal labour

- 4.1 Emergence and growth of an informal sector
- 4.2 Migration from the villages to cities and the growth of informal workforce
- 4.3 Livelihood situation of urban informal labour
- 4.4 Labour market regulations and its impacts on employment and industrial performance
- 4.5 Discrimination in the Labour Market; Employer Discrimination, Employee Discrimination,

Rishi m. *B. K. ...* *R. Rana* *J.S.*

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Suggested 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, SagePublication, 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.

OR

Research Methodology

Course Outline: This course equips students with the knowledge and skills to conduct systematic research by understanding research design, data collection methods, and sampling techniques. Students will learn to define research problems, apply appropriate sampling methods, analyze data, and interpret results, fostering critical thinking and enhancing their ability to conduct independent research.

Unit 1: Research Methodology: An Introduction

- 1.1: Meaning, Objectives, and Significance of Research
- 1.2: Types of Research, Research Approach, Literature Review: its Importance in Research
- 1.3: Research Proposal and its Types, Contents of Research Proposal
- 1.4: Research Design, Meaning and Types

Unit 2: Research Problem

- 2.1: Research Problem; Definition, Necessity of Defining the Problem
- 2.1: Selecting the Research Problem
- 2.3: Technique Involved in Defining Research Problem

Unit3: Design of Sample Surveys

- 3.1: Sample Design, Types of Sampling Designs, Sampling Design Process
- 3.2: Sampling and Non-Sampling Errors
- 3.3: Sample Survey Vs Census Survey
- 3.4: Characteristics of Good Sample

Unit 4: Classification and Tabulation

- 4.1: Data: Primary vs Secondary Data, and Methods of their Collection
- 4.2: Classification and Tabulation of data and its Diagrammatic Representation
- 4.3: Graphical Representation of Data and Technique of Construction of Graphs
- 4.4: Choice of Diagram, and Limitations of Diagrams and Graphs

Unit 5: Sampling Theory and Design of Sample Surveys

- 5.1: Universe or Population.
- 5.2: Sampling Distribution, Limitations of Sampling
- 5.3: Parameters and Statistic
- 5.4: Types of Sampling: Simple Random Sampling and Stratified Random Sampling

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Suggested Readings

- Blange M., Research Methodology in Economics
- Good WS and Hatt PK (1992): Methods in Social Science Research, McGraw Hill
- Kothari, Research Methodology
- Pannerselvam R.(2004), Research Methodology, Prentice Hall, India
- Wilkinson & Bhendarkar, Methodology and Techniques of Social Research

Project/Dissertation

Students will have to do an individual project work as assigned by the Department under the Supervision of a teacher of the department. Under this segment students will do following assignments:

- i) Preparation of Research proposal/Synopsis in Economics
- ii) Preparation of project work, Report writing and presentation of Dissertation

At the end of the semester the candidate will have to present his project report/ dissertation

The project work will be of 100 marks:

Project work(report): 70 marks and Viva-voce: 30 marks.

Suggested Readings:

Blange M., Research Methodology in Economics
Good WS and Hatt PK (1992): Methods in Social Science Research,
McGraw Hill Kothari, Research Methodology
PannerselvamR.(2004), Research Methodology,
Prentice Hall, India Wilkinson & Bhendarkar,
Methodology and Techniques of Social Research

**Minor From Discipline
(Odd Semester)**

<i>Year</i>	<i>Semester</i>	<i>Paper Code</i>	<i>Title of the Paper</i>	<i>Theory</i>	<i>Credits</i>
1st	I	ECO-MN-1	Introductory Economics	Theory	4 Credits
3rd	III	ECO-MN-2	Money and Banking	Theory	4 Credits
5th	V	ECO-MN-3	Indian Economy	Theory	4 Credits
7th	VII	ECO-MN-4	Public Finance & International Trade	Theory	4 Credits

Purshata Samant

Semester I

ECN-MN-1

Introductory Economics

Credit 4

Course Outcome :- The course exposes students to the basic principles of economic theory. It emphasizes how economists think, how consumers and firms make decisions and interact in output and input markets.

For End Semester Examination (ESE 75 marks, 3Hrs Exam): There will be two group of questions. Group A is compulsory which will contains three questions. Question no. 1 will be very short answer type of 1 mark each. Question No. 2 & 3 will be short answer type of 5 marks each. Group B will contain descriptive type six question of fifteen marks each, out of which any four are to answer.

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 Behavior

- 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: Theory of Production

- 3.1: Production Function: Short Run and Long Run.
- 3.2: Law of Variable Proportions;
- 3.3: Returns to Scale: Economies of Scale.
- 3.4: Isoquant Analysis; Iso-Cost Line; Producer's Equilibrium

Unit 4: Theory of Costs and Revenue

- 4.1: Concepts of Costs and their inter-relationship: Short Run and Long Run.
- 4.2: Concepts of Revenue and their inter-relationship; Break-Even Analysis.

Rushikesh

Semester-III

ECN-MN-2

Money & Banking

Credit 4

Course Outcome:- This course is designed to analyze the impact of money on some of the economy's key variables such as interest rates, inflation, and the banking industry. Students will learn the role of central and commercial banks in the process of money creation and control.

For End Semester Examination (ESE 75 marks, 3Hrs Exam): There will be two group of questions. Group A is compulsory which will contains three questions. Question no. 1 will be very short answer type of 1 mark each. Question No. 2 & 3 will be short answer type of 5 marks each. Group B will contain descriptive type six question of fifteen marks each, out of which any four are to answer.

Unit 1: Money

- 1.1 : Money: Meaning and Functions of Money, Kinds of Money
- 1.2 : Quantity Theory of Money : Cash Transactions Approach and Cash Balance Approach
- 1.3 : Supply of money- Definitions & Determinants, High Power Money

Unit 2: Inflation

- 2.1: Definition, Types, Causes and Effects of Inflation
- 2.2: Measures to Control Inflation
- 2.3: Concept of Inflationary Gap

Unit 3: Central Banking

- 3.1: Objectives and Functions of Central Bank with reference to RBI
- 3.2: Quantitative and Qualitative Methods of Credit Control

Unit 4: Commercial Banking

- 4.1: Meaning, Types and Functions of Commercial Banks
- 4.2: Process of Credit Creation
- 4.3: Critical Evaluation of Commercial Banking after Nationalization and Recent Banking Reforms

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) Aarthashastra , Dr.V.C.Sinha and Dr. Pushpa Sinha , SBPD Publications

Pushpa Sinha
Agarwal

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ECONOMICS (Honours) NEP Syllabus BBMK University- Revised

SUGGESTED READINGS

1. Bhagwati, 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)

**Minor From Discipline
(Even Semester)**

<i>Year</i>	<i>Semester</i>	<i>Paper Code</i>	<i>Title of the Paper</i>	<i>Theory</i>	<i>Credits</i>
2nd	II	ECO-MN-1	Introductory Economics	Theory	4 Credits
4th	IV	ECO-MN-2	Money and Banking	Theory	4 Credits
6th	VI	ECO-MN-3	Indian Economy	Theory	4 Credits
8th	VIII	ECO-MN-4	Public Finance & International Trade	Theory	4 Credits

B. A. M. M.

P. S. B. M.
A. B. M.
B. A. M. M.

Semester II

ECO-MN-1

Introductory Economics

Credit 4

Course Outcome:- The course exposes students to the basic principles of economic theory. It emphasizes how economists think, how consumers and firms make decisions and interact in output and input markets.

For End Semester Examination (ESE 100 marks, 3Hrs Exam): There will be two group of questions. Group A is compulsory which will contains three questions. Question no. 1 will be very short answer type of 1 mark each. Question No. 2 & 3 will be short answer type of 5 marks each. Group B will contain descriptive type six question of twenty marks each, out of which any four are to answer.

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 Behavior

- 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: Theory of Production

- 3.1: Production Function: Short Run and Long Run.
- 3.2: Law of Variable Proportions;
- 3.3: Returns to Scale: Economies of Scale.
- 3.4: Isoquant Analysis; Iso-Cost Line; Producer's Equilibrium

Unit 4: Theory of Costs and Revenue

- 4.1: Concepts of Costs and their inter-relationship: Short Run and Long Run.
- 4.2: Concepts of Revenue and their inter-relationship; Break-Even Analysis.

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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 McGraw Hill, India.
4. Alfred W. Stonier and Douglas C. Hague, A Textbook of Economic Theory, E L B S 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-IV

MONEY & BANKING

Marks: 25(MSE)+75(ESE;3Hrs)= 100

ECO-MN-2

Course Outcome: Upon completion of the paper Money & Banking students will understand the role of money and banks in the broader economy. Specially, students will have an understanding of the unique role of banks in the financial system. Students will also learn the relevance of the Reserve Bank and related central banking topics, including the causes, policy responses, and lessons associated with the current financial market.

For End Semester Examination (ESE 75 marks, 3Hrs Exam): There will be two group of questions. Group A is compulsory which will contains three questions. Question no. 1 will be very short answer type of 1 mark each. Question No. 2 & 3 will be short answer type of 5 marks each. Group B will contain descriptive type six question of fifteen marks each, out of which any four are to answer.

Unit 1. Money

- 1.1 Meaning and functions of money, Kinds of Money
- 1.2 Quantity theory of money: Cash - Transactions approach and Cash - Balance approach
- 1.3 Supply of Money – Definition & Determinants, High Power Money

Unit 2. Inflation

- 2.1 Definition, Types, Causes and Effects of Inflation
- 2.2 Measures to control inflation;
- 2.3 Concept of Inflationary Gap

Unit 3. Central Banking

- 3.1 Objectives and Functions of Central Banks with reference to RBI
- 3.2 Quantitative and Qualitative Methods of Credit Control.

Unit 4. Commercial Banking

- 4.1 Meaning, Types and Functions of Commercial Banks
- 4.2 Process of Credit Creation
- 4.3 Critical Evaluation of Commercial Banking after Nationalization and Recent Banking.

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P. K. B. S.
B. K. S.
A. S. S.

Suggested Readings:

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

Semester-VI

ECO-MN-3

Indian Economy

Credit 4

Course Outcome: - The course on Indian Economy examines issues relating to the evolution and performance on all aspects of the Indian economy. It is based on the concepts of development economics. The course is fairly exhaustive and is useful for increasing the general awareness of students on issues affecting the Indian Economy

For End Semester Examination (ESE 100 marks, 3Hrs Exam): There will be two group of questions. **Group A is compulsory** which will contains three questions. **Question no. 1** will be very short answer type of 1 mark each. **Question No. 2 & 3** will be short answer type of 5 marks each. **Group B** will contain descriptive type six question of twenty marks each. out of which any four are to answer

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

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.

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 VIII

Public Finance and International Trade

Credit 4

Course Outcome:- The course enables students to understand the basics of public finance and knowledge of public investments and other government expenditures. Understand the causes of growing public expenditures for various programmes. Identify the basic difference between inter-regional and international trade, understand how international trade has helped countries to acquire goods at cheaper cost.

For End Semester Examination (ESE 100 marks, 3Hrs Exam): There will be two group of questions. Group A is compulsory which will contains three questions. Question no. 1 will be very short answer type of 1 mark each. Question No. 2 & 3 will be short answer type of 5 marks each. Group B will contain descriptive type six question of twenty marks each, out of which any four are to answer

Unit 1: Nature and Scope of Public Finance

- 1.1: Meaning and Scope of Public Finance; Public Finance and Private Finance.
- 1.2: Principle of Maximum Social Advantage.

Unit 2: Public Revenue and Expenditure

- 2.1: Sources of Public Revenue.
- 2.2: Taxation: Meaning and Classification.
- 2.3: Impact and Incidence of Taxes; effects of Taxation.
- 2.4: Meaning, Classification and Principles of Public Expenditure.
- 2.5: Effects of Public Expenditure.

Unit 3: International Trade.

- 3.1: International Economics: Definition, Nature and Importance.
- 3.2: Inter-Regional and International Trade.
- 3.3: Gains from Trade: Their Measurement and Distribution.
- 3.4 Theory of Comparative Costs; Heckcher-Ohlin Theory.
- 3.5: Free Trade vs. Protection.

Unit 4: International Financial Institutions

- 4.1: I.M.F : Their Objectives and Functions.
- 4.2: World Bank: Their Objectives and Functions.

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B. A. 2016
A. S.

SUGGESTED READINGS

1. S.K. Singh- Lok Vitt(Hindi) Schand
2. S.K.Singh- Public Finance in Theory & Practice Schand
3. Musgrave R.A & Musgrave P.B.- Public Finance in Theory and Practice Mc Graw Hill.
4. H L Bhatia Public Finance, Vikas Publishing House
5. H L Bhatia- Lok Vitt, Vikas Publishing House
6. K P M Sundharam & KK Andley public finance, S Chand

Multidisciplinary Course			
<i>ECO-MDC</i>	<i>Introductory Economics</i>	<i>Theory</i>	<i>3 Credits</i>

Multidisciplinary Course
ECO-MDC
Introductory Economics

Credits 03, Lectures 45, Marks:75(ESE)

Pass Marks: 30

Course Outcome: This course aims to introduce the students to the basic concepts of Microeconomics & Macroeconomics. This course discusses the preliminary concepts associated Money, Banking, Inflation etc. Students will understand how optimum real-life decisions are taken by individuals & firms under situations of scarcity in the economy.

*For End Semester Examination (ESE 75 marks, 3Hrs Exam): There will be two group of questions. **Group A is compulsory** which will contains three questions. **Question no. 1 will be very short answer type of 1 mark each. Question No. 2 & 3 will be short answer type of 5 marks each. Group B will contain descriptive type six question of fifteen marks each, out of which any four are to answer.***

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: Law of Diminishing Marginal Utility; Law of Equi-marginal Utility, Consumer's Equilibrium
- 2.2: Ordinal Utility Analysis: Indifference Curve and its Properties, Consumer's Equilibrium
- 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 Economics
- 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

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 McGraw Hill, 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&





MINOR FROM VOCATIONAL

FYUGP



SESSION 2023-27

UNIVERSITY DEPARTMENT OF
ECONOMICS

FYUGP-Minor from Vocational-Department of Economics

COURSE OUTLINE

CODE	SEMESTER	PAPER	CREDITS
ECO-MN-2A	II	Financial Literacy and Banking Sector	4
ECO-MN-2B	IV	Tourism and Travel Management	4
ECO-MN-2C	VI	Entrepreneurship Development	4
ECO-MN-2D	VIII	Data Analysis	4

B. K. ...
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SEM-II

ECO-MN-2A Financial Literacy and Banking Sector

Marks: 25(Viva voce) +75(ESE:3Hrs) =100

Pass Marks: (Viva-voce+ESE)= 40

*For End Semester Examination (ESE 75 marks, 3Hrs Exam): There will be two group of questions. **Group A is compulsory** which will contains three questions. **Question no. 1 will be very short answer** type of 1 mark each. **Question No. 2 & 3 will be short answer** type of 5 marks each. **Group B will contain descriptive type** six question of fifteen marks each, out of which any four are to answer.*

Objective of the course: The main objective of this course is to inform students about financial decisions, establish a secure and prosperous future, status of Indian Financial Market and Banking Sector.

Module- I

Meaning of Financial Literacy, Pillers of Financial Literacy, Scope of Financial Literacy, Advantages of Financial Literacy.

Module- II

Meaning of Mutual Funds, Venture Capital Funds, Stock Exchange in India, Organization of SEBI and Its role.

Module- III

Meaning of Financial Market, Salient Features of Indian Financial Market, Composition of Indian Financial Market, Limitations of Indian Financial Market, How to improve Indian Financial Market.

Module- IV

Definition of Central Bank, Functions of Central Bank, Role of Central Bank in Credit Control, Functions of Commercial Banks, NPAs of Indian Commercial banks, Banking Sector Reforms in India.

B. M. S. 16/5/24

FYUGP-Minor from Vocational-Department of Economics

Suggested Readings:

- A Critically compassionate approach to Financial Literacy – Thomas A. Lucy, Mary Frances Agnello and James Duke Laney.
- Focus on Personal Finance- Jack R. Kapoor (2021)
- “Indian Banking Trends, Challenges and Future” - D.K. Srivastava
- Emerging scenario of Indian Banking Sector-Nayak and Niranjana.
- Money and Banking- M.L. Seth
- Indian Economy- Mishra & Puri, Himalayan Publication.

B. R. ...
16/5/2024

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FYUGP-Minor from Vocational-Department of Economics

SEM IV

ECO-MN-2B

Tourism and Travel Management

Marks: 25(Viva voce)+75(ESE:3Hrs)=100

Pass Marks: (Viva-voce+ESE)= 40

For End Semester Examination (ESE 75 marks, 3Hrs Exam): There will be two group of questions. Group A is compulsory which will contains three questions. Question no. 1 will be very short answer type of 1 mark each. Question No. 2 & 3 will be short answer type of 5 marks each. Group B will contain descriptive type six question of fifteen marks each, out of which any four are to answer.

Objectives of the Course: To understand the principles of tourism, its spatial, social, cultural employment, and economic dimensions.

Unit -I

Definition of Travel Tourism, Meaning of Domestic Tourism, International Tourism, Inbound Tourism, Outbound Tourism.

Unit-II

Significance of Tourism, Typology of Tourism, Classification of Traveler, Push and Pull factor.

Unit -III

Difference between Domestic and International Tourism, Difference between Tourist and Travelers.

Unit -IV

Tourism as an industry, Recent trends in Jharkhand Tourism, Future prospects of Tourism in Jharkhand, Factors influencing for the development of Domestic Tourism in India.

B. K. 16/5/24

FYUGP-Minor from Vocational-Department of Economics

Suggested Readings:

- A.K. Bhatia: Tourism Development- Principles and Practices.
- K.K. Karma and M.Chand- Basics of Tourism .
- RK Sinha: Growth and Development of Modern Tourism.
- PN Sethi- Successful Tourism Management
- Jagmohan Negi: Tourism and Travel Concepts and principles.
- A.K. Bhatia- International Tourism Management

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SEM-VI

ECO-MN-2C

Entrepreneurship Development

Marks: 25(Viva voce) +75(ESE:3Hrs) =100

Pass Marks: (Viva-voce+ESE)= 40

For End Semester Examination (ESE 75 marks, 3Hrs Exam): There will be two group of questions. Group A is compulsory which will contains three questions. Question no. 1 will be very short answer type of 1 mark each. Question No. 2 & 3 will be short answer type of 5 marks each. Group B will contain descriptive type six question of fifteen marks each, out of which any four are to answer.

Moto

The objective of this Course is to motivate students to choose the entrepreneurship as a Career and to prepare the person to exploit the market opportunities for their own business.

Unit – 1 Introduction

Meaning and importance of Entrepreneurship. Factors influencing entrepreneurship, Types of entrepreneur, Objectives of entrepreneurship development.

Unit – 2 Entrepreneurship Development Skill

Meaning of entrepreneurship skill, Types of entrepreneurship skill, How to improve entrepreneurial skill, Entrepreneurial imagination and Creativity.

Unit – 3 Organization Assistance

Assistance to an entrepreneur, financial assistance by different agencies, Financial assistance to MSME and Small Scale Units.

Unit – 4 Financial Operations

Concept of Working Capital and Term Capital, Start-up, Understanding Financial Statement, Understanding Balance sheet.

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FYUGP-Minor from Vocational-Department of Economics

Suggested Readings

1. Entrepreneurship Development – S. S. Khamka
2. Entrepreneurship and Small Business Management – S.P. Singh
3. Small Business Management and Entrepreneurship – Renu Arora
4. उधमिता विकास – एनसीईआरटी
5. Entrepreneurship Development and Business Ethics – Desai V – Himalaya Publishing House, New Delhi.

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SEM-VIII

ECO-MN-2D

DATA ANALYSIS

Marks: 25(Viva voce) + 75(ESE:3Hrs)=100

Pass Marks: (Viva-voce+ESE)= 40

*For End Semester Examination (ESE 75 marks, 3Hrs Exam): There will be two group of questions. **Group A is compulsory** which will contains three questions. **Question no. 1 will be very short answer type of 1 mark each.** Question No. 2 & 3 will be **short answer type of 5 marks each.** Group B will contain descriptive type six question of fifteen marks each, out of which any four are to answer.*

COURSE OUTCOME

The knowledge of tools and techniques of data collection, presentation and analysis by using the spreadsheet package is high in demand in almost every sector of economy. Data, therefore, need to be analysed and converted to simpler presentable forms & analysed to derive inference from it. At the end of the course, the student will be able to

- Use the tools and techniques of Spreadsheet (Excel).
- Collect, Present Data using the spreadsheet (Excel).
- Analyse the Data using statistical tools.

UNIT I INTRODUCTION TO STATISTICAL CONCEPT

Introduction to Data & its types, Concept & Types of Data Analysis, Variable and Its Types, Sources of data collection; Census, Survey, Observation, Experiment.

Quantitative and Qualitative Research Methods; Questionnaire, Schedule, Interview, Participant Observation, Non-Participant, Observation, Focused Interview, Case Study, Group Discussion, Key Informants.

UNIT 2 STATISTICAL SOFTWARE & UNIVARIATE ANALYSIS

Introduction & Need of Statistical Software, Excel-Basics Data Entry, Use of Formula and Functions, Presentation of Data -Tabular, Charts & Graphical

Measures of Central Tendency- Arithmetic Mean, Median, Mode, Geometric Mean and Harmonic Mean

Measures of Dispersion- Range, Mean Deviation, Standard Deviation, Coefficient of Variation and Quartile Deviation.

Skewness and Kurtosis

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UNIT 3 BIVARIATE ANALYSIS

Correlation- Karl Pearson and Rank Correlation, Regression- Lines of Regression; Least Square Method, Time series Forecasting.

UNIT 4 HYPOTHESIS CONCEPT & TESTING

Meaning of Hypothesis, Procedure for Hypothesis Testing, Errors in Hypothesis Testing; one-tailed and two-tail test.

Standard Error. T-test, Z-Test, F-Test (ANOVA), Chi-Square Test

REFERENCE

1. Blaikie, N. (2003). Analyzing quantitative data: From description to explanation. Sage.
2. P.H. Karmel and M. Polasek (1978), Applied Statistics for Economists, 4th edition, Pitman.
3. M.R. Spiegel (2003), Theory and Problems of Probability and Statistics (Schaum Series) Cramer, D. (2003). Advanced quantitative data analysis. McGraw-Hill International
4. Sharma, S. (1996). Applied Multivariate Techniques, University of South California, John Wiley & amp;
5. Tabachnick B., Fidell, L. (2007). Using Multivariate Statistics, 5th edition Pearson Education, Inc.

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