



**NEHRU GRAM BHARTI VISHWAVIDYALAYA**  
Kotwa-Jamunipur-Dubawal  
**ALLAHABAD**

**PG-9**

**SYLLABUS**

*Revised 2016*

**M.A. ECONOMICS**  
**(I, II, III, IV) Semester**

**DEPARTMENT OF ECONOMICS**

## **M. A. ECONOMICS**

सत्र 2014–2015 से अर्थशास्त्र विभाग द्वारा अधिसत्र (सेमेस्टर) प्रणाली के अनुसार एम0ए0 अर्थशास्त्र पाठ्यक्रम का पठन–पाठन प्रारम्भ किया गया। कुल चार अधिसत्र (सेमेस्टर) होंगे। एम0ए0 प्रथम वर्ष में दो अधिसत्र (सेमेस्टर–प्रथम एवं सेमेस्टर–द्वितीय) तथा एम0ए0 द्वितीय वर्ष में भी दो अधिसत्र (सेमेस्टर तृतीय एवं सेमेस्टर चतुर्थ) द्वारा पठन–पाठन होगा। एम0ए0 प्रथम वर्ष एवं द्वितीय वर्ष में कुल मिलाकर 18 प्रश्न पत्र होंगे। प्रत्येक प्रश्न पत्र 100 अंकों का होगा।

प्रथम अधिसत्र में कुल चार लिखित प्रश्न पत्र होंगे। द्वितीय अधिसत्र में चार लिखित एवं एक मौखिकी परीक्षा 100 अंको की होगी। तृतीय अधिसत्र में चार लिखित प्रश्न पत्र होंगे। चतुर्थ अधिसत्र में तीन प्रश्न पत्र अनिवार्य होंगे एवं चतुर्थ प्रश्न पत्र वैकल्पिक होगा, तथा 100 अंकों की मौखिकी परीक्षा होगी। क्रेडिट पद्धति के अनुसार प्रत्येक लिखित प्रश्न पत्र चार क्रेडिट होगा एवं मौखिकी एक क्रेडिट का होगा। अर्थात् पाठ्यक्रम 66 क्रेडिट का होगा।

## COURSE STRUCTURE

### *Semester -I*

<b>Paper No.</b>	<b>Content</b>	<b>Unit</b>	<b>Lec.</b>	<b>Credit</b>	<b>Marks</b>
Paper -I	Economic Thought	05	40	04	100 (80+20)
Paper -II	Micro Economic Analysis	05	40	04	100 (80+20)
Paper -III	Research Methodology	05	40	04	100 (80+20)
Paper-IV	Theories of International-Trade	05	40	04	100 (80+20)
<b>Semester -II</b>					
Paper -I	Theory of Pricing & welfare -	05	40	04	100 (80+20)
Paper-II	Quantitative Methods	05	40	04	100 (80+20)
Paper -III	International Economics	05	40	04	100 (80+20)
Paper-IV	Financial Institution	05	40	04	100 (80+20)
<b>Viva-Voice</b>		01			100
<b>Semester -III</b>					
Paper-I	Macro Economic Analysis	05	40	04	100 (80+20)
Paper-II	Theories of Economics Growth	05	40	04	100 (80+20)
Paper-III	Public Economics	05	40	04	100 (80+20)
Paper-IV	Issues and Problems of Indian economy	05	40	04	100 (80+20)
<b>Semester -IV</b>					
Paper-I	Monetary Economics	05	40	04	100 (80+20)
Paper-II	Economics of Agriculture	05	40	04	100 (80+20)
Paper-III	Indian Public Finance	05	40	04	100 (80+20)
Paper -IV	Optional paper (Any one paper ) 1. Labour Economics 2. Environmental Economics 3. Demography	05	40	04	100 (80+20)
<b>VIVA - VOICE</b>				01	100 marks
<b>Grand Total Semester ( I+II+III+IV )</b>					<b>1800</b>

**PAPER-I**  
**ECONOMICS THOUGHT**

**Unit-I**

**History of Indian Economic Thinker :**

Dada Bhai Noroji, Gopal Krishna Gokhle, Mahatma Gandhi

**Unit-II**

J.L. Nehru, Vinoba Bhave,, Amartya Sen.

**Unit-III**

**History of western Economic Thinker- The Classical Tradition:**

- (i) Adam Smith
- (ii) David Ricardo
- (iii) John Stuart Mill,

**Unit IV**

**Modern Economic Thought**

- (i) Nationalists
- (ii) Institutionalism
- (iii) Socialist Economics.

**Unit -V**

**Neo Classical Economic Thinker**

- (i) Alfred Marshall.
- (ii) A.C. Pigou
- (iii) J.M. Keynes.

**Reading List -**

- (a) V.C. Sinha- History of Economic Thought
- (b) T.N. Hajela-History of Economic Thought
- (c) J.A. Shumptor-Ten great Economist.
- (d) B.N. Ganguli-Indian Economic thought
- (e) J.C. Kumarappa- Gandhian Economic Thought.
- (f) P.K. Gopal Krishnan-Development of Economics Ideas in India.
- (g) Schumpeter – History of Economics analysis.

**PAPER-II**  
**MICRO ECONOMIC ANALYSIS**

**Unit -I**

- Analytical Techniques of Economic Analysis Determination of Equilibrium and optimization.

**Unit -II**

- Consumer Theory – Utility and Indifference curve, consumer behavior slutsky Theorem, compensated Demand Curve. Fundamental theorem of consumption.

**Unit -III**

- Modern Utility Analysis of consumer's Choice under Risk & Uncertainty-The Neumann –Morgenstern Method; Revealed Preference Theory; Fundamental.

**Unit -IV**

- Producer's Equilibrium and production function-fixed Coefficient, Cobb-Douglas, CES; Elasticity of Factor Substitution.

**Unit -V**

- Cost Analysis- Traditional & Modern Theories of Cost; Derivation of cost from production function Revenue Analysis, General Equilibrium Theory-its stability and uniqueness.

**READING LIST-**

1. Baumol, W.J. – Economic Theory & operation Analysis.
2. Da Costa, G.C.-Production, Prices & Distribution.
3. Green H.A.G.- Consumer Theory.
4. Hansen, B-A Survey of General Equilibrium System
5. Henderson, J.M. & R.E. Quandt: Micro Economic Theory : A Mathematical Approach.
6. Koutsoyiannis A- Modern Micro Economics.
7. Kreps, David M.-course in Micro Economic Theory.
8. Prasad. A.R.-Dictionary of Micro Economics.
9. Sen, A-Micro Economics : Theory & Applications.
10. Ahuja, H.L.-Advanced Economic Theory.
11. Jhingan, M.L.-Micro Economics.

**PAPER-III**  
**RESEARCH METHODOLOGY**

**Unit-I**

- Nature & Scope of Economics Research Difference between Social & Physical Sciences Research Methodology.

**Unit-II**

- Research Design, Primary & Secondary data, Questionnaire, Observation, Interview, Presentation of Research Report.

**Unit-III**

- Data Analysis Classification, Tabulation, Line Graph. Bar Diagram Sample & Sampling Techniques.

**Unit-IV**

- Measures of Central Tendency-Mean, Median. Mode.
- Measures of Dispersion : Mean deviation, Standard Deviation Lorenz Curve.

**Unit-V**

- Measure of Skewness: Positive & Negative Skewness Coefficient of Skewness coefficient of Variation.

**Reading List:**

1. C.R. Kothari- Research Methodology
2. Sharma & Mukherjee- Research in Economics & Commerce Methodology & Source.
3. Alhence- Fundamental of Statistics.
4. B.L. Agrawal : Basic Statistics
5. Charurvedi & Mishra Economics Research & Statistics
6. S.P. Singh : Theory of Statistics.

**PAPER-IV**  
**THEORY OF INTERNATIONAL TRADE**

**Unit -I**

Theory of International Trade : Adam Smith, Ricardo, Mill  
Heckscher-ohlin theory of trade, Trade as a Engine of Growth.

**Unit-II**

Theorem of Factor Price Equalization, The Rybezynski Theorm  
Kravis & Linder Theories of trade. Stolper- Samuelson Theorm, Leontif  
paradox (Factor-Revirsal)

**Unit -III**

Measurement of Gains from trade and their distribution, Concepts  
of Term of trade, Uses and limitations, Hypothesis of secular  
Deterioration of term of trade

**Unit -IV**

Welfare Implications, The case for Interventions (Tariffs, Quotas  
and Non-tariff Barriers), Effects of Tariff and Quotas on National  
Income output, Employment, Income Distribution.

**Unit -V**

Nominal, Effective & optimum Rates of Tariffs- Their  
Measurement, Impact and welfare implication Dumping.

**Reading List-**

1. Bhawati. J. (Ed.) International Trade, Selected Reading.
2. Brahmanna. P.r.: The IMF Loan & India's Economic Future.
3. Kenen, P.B. : The International Economics.
4. Kindlebergr, C.P. Intentional Economics.
5. Linder. S.B. : An Essay on Trade & Transformation.
6. Man Mohan Singh : India's Export Trends & Prospects for self  
sustained Growth.
7. Mundell, R International Economics.
8. Soderston, Bo-International Economics.
9. Verm, M.L. International Trade.
10. Singh Sudama & Vaish M.C.- International Economics.

**SEMESTER-II**  
**PAPER-I**  
**THEORY OF PRICING AND WELFARE**

**Unit-I**

Equilibrium of a firm under Monopolistic competition- Assumptions, costs product differentiation, concept of industry and group, Theory of Excess capacity;

**Unit-II**

Oligopoly- Non-Collusive (Cournot, Sweezy) Collusive (Cartels, Price Leadership) Full cost Pricing Theory (The Hall & Hitch Report).

**Unit-III**

Managerial Theory of the firm (Baumol's Theory of Sales Revenue Maximization). Factor Pricing-Elasticity of Factor substitution and the share of factors of production; Euler's product Exhaustion theorem.

**Unit-IV**

Pigouvian welfare Economics; The paretian optimum; value Judgment;

**Unit-V**

Social welfare function; compensation principle.

**READING LIST-**

1. Baumol, W.J. – Economic Theory & operation Analysis.
2. Da Costa, G.C.-Production, Prices & Distribution.
3. Green H.A.G.- Consumer Theory.
4. Hansen, B-A Survey of General Equilibrium System
5. Henderson, J.M. & R.E. Quandt: Micro Economic Theory : A Mathematical Approach.
6. Koutsoyiannis A- Modern Micro Economics.
7. Kreps, David M.-course in Micro Economic Theory.
8. Prasad. A.R.-Dictionary of Micro Economics.
9. Sen, A-Micro Economics : Theory & Applications.
10. Ahuja, H.L.-Advanced Economic Theory.
11. Jhingon, M.L.-Micro Economics.

**PAPER-II**  
**QUANTITATIVE METHODS**

**Unit -I**

The concept of function and Derivative; Rules of Differentiation Interpretation of Revenue, cost Demand & Supply functions, Elasticity and their types;

**Unit -II**

Production functions, Rules of Partial Differentiation a Interpretation of partial Derivatives, constrained optimization- Method of Lagrange Multiplier,

**Unit -III**

Concept of Integration and its application to consumer's surplus and producer's surplus.

**Unit -IV**

Introduction to Matrix and Vector; Eigen Vector Concept of Difference and Differential Equations with Application.

**Unit -V**

Method of Estimation, Assumption and the concept of best Liner unbiased Estimation, ordinary least squares method of Regression Standard Error of Estimation, of Demand function-Engels's. Law.

**READING LIST**

1. Alhence - Fundamental of Statistics.
2. B.L. Agarwal - Basic Statistics
3. Chaturvedi & Mishra - Economics Research & Statistics
4. S.P. Singh - Theory of Statistics

**PAPER-III**  
**INTERNATIONAL ECONOMICS**

**Unit-I**

Meaning and components of Balance of payment, Equilibrium and Disequilibrium in the Balance of payments;

**Unit-II**

The process of Adjustment under Gold Standard, Fixed Exchange Rates and Flexible Exchange Rates; Expenditure reducing and Expenditure-Switching Policies and Direct Controls for Adjustment;

**Unit-III**

A Critical Review of the Monetary Approach to the Theory of Balance of Payments Adjustment;

**Unit-IV**

Forms of Economic cooperation; Static & Dynamic Effects of a customs union.

**Unit-V**

Rationale and Economic Progress of SAARC/SAPT and ASEAN Regions.

**Reading List-**

1. Bhawati. J. (Ed.) International Trade, Selected Reading.
2. Brahmanna. P.r.: The IMF Loan & India's Economic Future.
3. Kenen, P.B. : The International Economics.
4. Kindlebergr, C.P. Intentional Economics.
5. Linder. S.B. : An Essay on Trade & Transformation.
6. Man Mohan Singh : India's Export Trends & Prospects for self sustained Growth.
7. Mundell, R International Economics.
8. Soderston, Bo-International Economics.
9. Verm, M.L. International Trade.
10. Singh Sudama & Vaish M.C.- International Economics.

**PAPER –IV**  
**FINANCIAL INSTITUTIONS**

**Unit-I**

Money & Finance – Money & Near Money-Financial Intermediation and Financial Intermediaries.

**Unit-II**

The Structure of the Financial System-Function of the Financial Sector-Indicators of Financial Development.

**Unit-III**

Functions of Central Bank- The Aim & Objectives of the Monetary Policy in Developed & Developing Countries- Effectiveness of Monetary Policy- Credit Creation and its Control.

**Unit-IV**

Development Banks-Role & Functions; Investment Banking and Merchant Banking. Rise & Fall of Brettonwood Institutions-

**Unit-V**

International Liquidity – Post Maastricht Development Reforms in International Monetary system for Developing Countries.

**READING LIST –**

1. Bhole, L.M. - Financial Institution and Market
2. Bhole, L.M. - Indian Financial System
3. Gupta, L.C. - India's Financial Markets and Institutions.
4. Khan, M.Y. - Indian Financial System
5. Prasad, K.N. - Development of India's Financial System

**SEMESTER –III**  
**Paper-I**  
**MACRO ECONOMIC ANALYSIS**  
**Unit-I**

National Income- Components and Measurement, Circular Flow of Income; National income Accounting : Theory and Practice; Problem of Aggregation.

**Unit-II**

Consumption Function : Keynes Psychological Law of consumption, Factors Affecting Consumption Function; Empirical Evidence on Consumption Function; Income-Consumption Relationship –Absolute Income, Relative Income, Life Cycle and Permanent Income Hypothesis, Multiplier.

**Unit-III**

Investment Function : Autonomous and Induced Investment; Marginal Efficiency of Capital, Determinants of Investment; The Acceleration Principal. Theories of Rate of Interest Classical : Neoclassical and Keynesian View on Interest;

**Unit-IV**

The IS-LM Model; Extension of 1S-LM Model with government Sector; Effectiveness of Monetary and Fiscal Policies Classical, Structural and Monetarist Approach of Inflationary Gap and Double Inflationary Gap (Ben Hanson); Phillips Curve Analysis-Short run & Long run Phillips Curves. Tobin's Modified Phillips Curves.

**Unit-V**

Business Cycle Theories-Samuelson & Hick, Kaldor; Control of Business cycles-Relative Effect of Monetary and Fiscal Policies. Macro economics in an open economy : Mundell- Flemming Model.

## **READING LIST**

- 1.** Allen, R.G.D. - Macro Economics Theory
- 2.** Friscek Helmettt - Theories of Inflation
- 3.** Muller, M.G. - Reading in Macroeconomic
- 4.** Shapiro, E. - Macro Economic Analysis
- 5.** Romer, D.L. - Advanced Macroeconomic
- 6.** Heijdra B.J. & V.P. - Foundations of Modern Frede  
Fredrick Macroeconomics
- 7.** Vaish, M.C. - Monetary Economics
- 8.** Lal, S.N. - Money, Banking & Public finance

**PAPER-II**  
**THEORY OF ECONOMIC GROWTH**

**Unit-I**

Economic Growth and Development –Factor Affecting Economy Growth; Problem of Economic Growth and The General Solution Growth Equilibrium-existence, Uniqueness and Stability;

**Unit-II**

Classical Theory of Growth General, Ricardo and Adam Smith Growth Models of Harrod and Domar and Instability of Growth.

**Unit-III**

Solutions of Instability Problem; Neo-Classical Model of Growth R.M. Solow, T.W. Swan. Neo-Keynesian Model of Growth N. Kaldor, L. Pasinetti and Mrs. Joan-Robinson;

**Unit-IV**

Capital Controversies in the theory of capital Neo-Classical Neo-Keynesian Version.

**Unit-V**

Money & Growth, James Tobin and H.G. Johnson, Elementary Treatment of optimum Growth, Models, Keynes, Ramsey Rule.

**READING LIST-**

1. S.Chakravarti - Alternative Approaches to Theory of Economic Growth
2. Jones, H.G. - An Introduction to the Modern Theory of Economic Growth.
3. Sen, A.K. - Growth Economics
4. Thirwal, A.P. - Growth & Development
5. R.K. Lekhi - Economic Development
6. S.P. Singh - Economic Development & planning
7. Mehta - Economic of growth
8. R.P. Sen - Development theory & Growth Models
9. D. Bright Singh - Economic Development
10. M.L Jhingen - Economic Development Planning

**Paper-III**  
**PUBLIC ECONOMICS**

**Unit-I**

Role of Government in an Economy-The allocation Distribution and the stabilization functions; Private Goods, Public Goods & Merit Goods;

**Unit-II**

Public Expenditure –Wagner’s Law of increasing state Activities Wiseman-Peacock Hypothesis; Pure Theory of Public Expenditure Criteria for public Investment.

**Unit-III**

Cost-Benefit Analysis-Project Evaluation Reforms in Expenditure Budgeting Performance & Programme Budgeting and Zero Based Budgeting, gender budgeting.

**Unit-IV**

Taxation-Principle of Taxation Benefit and Ability to Pay Approaches; Indices of Ability to Pay; Incidence of Taxation –Impact Incidence and Effects of a Tax, Backward & Forward Shifting.

**Unit-V**

Source of Public Debt; Debt through created money; public borrowing and price level, compensatory aspect of debt policy, Burden of Public Debt. Crowding out of Private Investment Activity; Principles of Public Debt Management & Repayment.

**Reading List-**

1. Dwivedi, D.N. - Reading in Indian Public Finance.
2. Gandhi. V.P. - Some Aspects of Indian Tax Structure : An Exonomic Analysis.
3. Seligman. E.R.A. - Essay in Taxation
4. Mishra, D.K. - Public Debt and Economic

## Development of India

- 5.** Sengupta, A.K. - Theory of Public Budgeting
- 6.** Lal, S.N. - Problem of Public Borrowing in India.
- 7.** Lekhi, R.K. - Public Finance
- 8.** Singh, S.K. - Public Finance
- 9.** Gaur, A.K. - Federal Finance in India.
- 10.** Jam. A.K. - Taxation of Income in India.

## **PAPER –IV**

### **ISSUES & PROBLEMS OF THE INDIAN ECONOMY**

#### **UNIT-I**

The issues of Indian Economy on:

- National income - Trends
- Poverty and Inequality
- Problem of Unemployment
- MANREGA

#### **UNIT-II**

Growth of Monopolies and concentration of Economic power.  
Multinationals in India, Parallel Economy in India.

#### **UNIT-III**

Economic Reforms since 1991 Industrial development under various Industrial Policy. Problem of Small & Cottage Industries. Industrial sickness,

#### **UNIT-IV**

Need for Second Green Revolution, food security Act 2010.

#### **UNIT- V**

Human Resource development & Social Infrastructure. Role of N.G.O. in Development.

#### **READING LIST**

1. Sen, A.K. - Growth Economics
2. A. I.J. and I.M.D. - India's Economic Reforms & Little (Eds.) Development.
3. Bardhan, P.K. - The Political Economy of

## Development in India.

- 4.** Brahmananada, P.R. & V.P. Panchmukhi - Development Experience in The Indian Economy : Inter State Perspectives.
- 5.** Chelliaha, Raja J. & R. Sudrshan - Sudasnan – Income Poverty & Beyond Human Development in India
- 6.** Datt. R. - Second Generation Economic Reforms in India.
- 7.** Datt & Sundrem - Indian Economic (Problems Policies)
- 8.** Jain, A.K. - Economic Planning In India
- 9.** R.B.I. Report - Government of India, Economic Survey (Annual)

## **SEMESTER-IV**

### **Paper-I**

## **MONETARY ECONOMICS**

### **Unit-I**

Approaches Towards Determination of Money Supply conventional, Friendman, Radcliffe Committee & Gurley & Shaw Approach.

### **Unit-II**

R.B.I. Approach to Money Supply; High Powered Money & Money Multiplier, Budget Deficits and Money Supply; Control of Money supply.

### **UNIT-III**

Classical Approach to Demand for Money-Quantity theory Approach, Fisher's Equation, Cambridge Quantity Theory, Keynes Liquidity Preference Approach.

### **UNIT-IV**

Post-Keynesian Approach to Demand for Money- Patinkin and Real Balance Effect. Approaches of Baumol and Tobin.

### **UNIT-V**

Friedman and Modern Quantity Theory, Crisis in Keynesian Economic and Revival of Monetarism.

### **READING LIST –**

1. Allen, R.G.D. - Macro Economics Theory
2. Frisvold Helmett - Theories of Inflation
3. Muller, M.G. - Reading in Macroeconomic
4. Shapiro, E. - Macro Economic Analysis
5. Romer, D.L. - Advanced Macroeconomic
6. Heijdra B.J. & V.P. - Foundations of Modern Frede  
Fredrick Macroeconomics
7. Vaish, M.C. - Monetary Economics

8. Lal, S.N. - Money, Banking & Public finance

## **PAPER-II**

### **ECONOMICS OF AGRICULTURE**

#### **Unit-I**

Linkage Between Agriculture and Industry, Traditional Agriculture and its Modernization.

#### **Unit-II**

Agricultural Development Models: Lewis, Schultz and Mellor; Cobweb Model, Fenis- Ranis models.

#### **Unit-III**

Agricultural Cost & Production, Supply Response in Agriculture, Price & Non-Price Incentives.

#### **Unit-IV**

Farm Size : Production & Productivity – Introduction, Relationship between farm size and productivity.

#### **Unit-V**

Green Revolution, Returns to Scale and the Inverse Relationship, Size of the firm & Profitability.

### **READING LIST**

1. Bhaduri, A - The Economic Structure of Backward Agriculture
2. Bilgrami, S.A.R. - An Introduction to Agriculture Economics
3. Dantwala, M.L. - Indian Agriculture Development since Independence
4. Desai, R.G. - Agricultural Economics (Models

Problems & Policy Issues)

5. Government of India - Report of the National Commission on Agriculture
6. Joshi, P.C. - Land Reforms in India (Trends Prospects)
7. Rudra, A. - Indian Agricultural Economic (Myths & Reality)
8. Soni, R.N. - Leading Issues in Agriculture Economics
9. पाण्डेय, श्रीधर - भारतीय ग्रामीण अर्थशास्त्र और कृषि अर्थव्यवस्था : तथ्य और समस्याएं
10. मुजम्मिल मोहम्मद - कृषि अर्थशास्त्र

**PAPER-III**  
**INDIAN PUBLIC FINANCE**

**Unit-I**

Objectives of Fiscal Policy Interdependence of Fiscal & Monetary Policies, Budgetary Deficits and its Implications.

**Unit-II**

Theory of Federal Finance; Division of Function and Resources; Fiscal Federalism in India ; Vertical & Horizontal Imbalance, Assignment of Function and Source of Revenue.

**Unit-III**

Finance commissions and the planning commission, Niti Ayog Devolution of Resource & Grants; Resources transfer from Union to States. Criteria for transfer of resources; Centre-State Financial Relation in India. The Role Finance Commission.

**Unit-IV**

The Indian Tax system: Revenue of the Union States and Local Bodies; Major Taxes in India : Base of Taxes; Direct & Indirect Tax, Taxation of Agriculture, Expenditure Tax, Taxes on Services; Reforms in Direct & Indirect Taxes.

**Unit-V**

Analysis of Central & State Government Budget Trends in Public Expenditure and Public Debt, Fiscal Crisis and Fiscal Sector Reforms in India.

**READING LIST-**

1. R.N. Bhargva - Indian Public Finance
2. S.K. Singh - Public Finance (H/E)
3. B.N. Ganduli - Public Finance
4. R.K. Lehi - Public Finance
5. T.N. Hajela - Theory of Finance

**PAPER-IV**  
**OPTIONAL PAPER**  
**LABOUR ECONOMICS**

**Unit-I**

Labour-Its Characteristics ; Role of Labour in Economics Development –W.A.- Lenis & Ranis Fie ; Mobility and Productivity of Labour ; Methods of Recruitment and Placement; Employment Service organization in India.

**Unit-II**

Employment & Development Relationship-Unemployment Concept, Types and Measurement, Particularly in India; Public Sector and Employment in Agricultural Sector; Analysis of Educated Unemployment Employment Policy in Five Year Plans and its Evaluation.

**Unit-III**

Classical, Neo-classical and Bargaining, Theories of wage Determination; Concept of Minimum wage, Living wages and Fair wage in theory and practice; productivity and wage relationship; National wage policy, wages and wage boards in India;

**Unit-IV**

Industrial Relations, Industrial Disputes and Industrial Peace; Cause of Industrial Disputes and their Settlement.

**Unit-V**

Special Problems of Labour Child Labour, Female Labour, Labour Market. Reforms in India – National Commission on Labour.

**READING LIST-**

1. Bhagoliwal, T.N. - Economics of Labour & Social welfare
2. Datt, G. - Bargaining Power, Wages Employment :An Analysis Agricultural Labour Markets India.
3. Lester, R.A. - Economics of Labour

4. Hickes, J.R. - Theory of Wages

**PAPER-IV**  
**OPTIONAL PAPER**  
**ENVIRONMENTAL ECONOMICS**

**Unit-I**

**Introduction:**

- Environmental Economics
- Resource Economics
- Ecological Economics

**Links between Natural Environment and Human Economy**

- Neo-classical perspective : Circular Flow Model.
- Ecological Perspective: Material Balance Model.

**Unit-II**

**Economics of Resources Use:**

- Optimal use of Renewable resources.
- Optimal use of Non-renewable resources.
- Resource Conservation.
- Recycling.

**Unit-III**

**Fundamentals of Environmental Resources**

- The Optimal level of pollution
- Environmental damage.

**Environmental Problems:**

- Public goods.
- Common property resources.
- Externalities : Types of Externalities.
- Basics of Externality theory.

## **Unit-IV**

### **Solution to Environmental Problems**

- Command –and – Control approach : Liability Law, Emission standard Property Rights, Market approach : Pollution Tax, Pollution subsidy, Deposit Refund system, Pollution permit trading system.

### **Environmental Policy in India:**

- Environmental Issues in India
- Environmental Policy : Objectives & Strategy.
- Carbon Trading / Credit
- SRF Limited.

### **READING LIST-**

1. Balimol, W.J. & - The Theory of Environmental Policy  
Wallase E.O.
2. Nhsttflhnrya, - Environmental Economics-An Indian  
Rabindra & (ed.) Perspective
3. Jhingon, ML. & - Environmental Economics Theory,  
Sharma C.K. Management & Policy
4. Rangarajan - Environmental Issues in India  
Mahesh
5. Sen Gupta, Ram - Ecology & Economics  
Prasad

**PAPER-IV**  
**OPTIONAL PAPER**  
**DEMOGRAPHY**

**Unit-I**

Demography : Basic Concept and measures : Rates & Ratio; Child Women Ratio, Population Density, Sex Ratio etc.

**Unit-II**

Measure of Fertility: General Fertility Rate, Total Fertility Rate, Gross Reproduction Rate and Net Reproduction Rate.

**Unit-III**

Measures of Mortality/ Morbidity Infant Mortality Rate, Natal Mortality Rate, Maternal Mortality Rate.

**Unit-IV**

Life Tables : Concept Construction, Abridged Life Tables, Uses and Limitations, Concept of Stable and Stationary population.

Nuptiality Analysis : Concept, Various Measures, Martial Dissolution.

**Unit-V**

Population Manpower Projection : Meaning & Measures.

Sources of Demographic Data.

**READING LIST**

1. Barclay - Techniques of Demographic Analysis.
2. Srivastava, U.S. - A Text Book of Demography
3. Kumar, V. - Demography, Latest Edition

4. Srivastava, S.C. - Dynamics of Demographic Studies.
5. Mishra, J.P. - Demography, Latest Edition
6. National Family - Various Reports Health Survey

### **MODEL PAPER**

#### **Section -A**

##### **Short Answer Type Question-**

Attempt any five questions out of Eight questions. Each questions Having Seven Marks. answer should be 250-300 words.

5 Questions X 7 marks = 35

#### **Section -B**

##### **Long Answer Types Questions-**

All Questions are Compulsory (Internal Choice based). Each question having 15 Marks

Answer not exceed then 800-1000 Words.

3 Question x 15 Marks = 45 Marks

Total Marks (A+B) = 35+45=80

20 Marks are based on internal Assessment

Grand Total = 80+20=100 Marks.

## **COURSE RUN BY NGBU**

Main Campus : Jamunipur

Tel. No. 0532-285056

**B.A.** : Hindi, English Sanskrit, Urdu, Anc. History, Home Science, Economics, Geography, Psychology, Defence Studies., Political Science, Philosophy, Education, BPE.

**M.A.** : Hindi, English, Sanskrit, Urdu, Anc. History, Pol. Science, Economics, Sociology, Education, Home Science, Geography, Psychology, Philosophy, Defense Studies, Rural Development.

**B.Sc.** : Biology, Maths, Bioinformatics.

**M.Sc.** : Maths, Physics, Chemistry, Botany, Zoology.

**Teacher Education** : B.Ed., M.Ed. & B.T.C

**Special Course** : Jyotish, Karmkand and Vastushastra.

B.Tech : IT, CS, EC and EE

Special Education : B.Ed (HI), M.Ed. (HI)

**Hanumanganj Campus :**

**Tel. No. : 7897609333**

**Commerce** : B.Com., M.Com

**Management** : B.B.A., M.B.A.

**Computer Application** : B.C.A., M.C.A., P.G.D.C.A.

**Social Work** : BSW, MSW

**Law** : LL.B., LL.M. 05 Year Integrated course leading to the degree of BA, LL.B. (on the an avil)

**Civil Lines Campus :**

Journalism : BJMC, MJMC, PGDJMC.

Libarary Science : B.Lib., I.Sc., M.Lib. I.Sc.

**New Innovative Course :**

- Short Term Computer Certificate & Diploma Courses.
- Personlaity Development Programme.
- MBA (3 Years Part Time) Evening Classes.
- PGDCA (Evening Classes).

- ADCHN –Advanced Diploma in Computer Hardware & Networking.
- Air Hostess Training Programme
- Online Project Programme.
- Basic Acupuncture Course. (By Canadian Academy)

**George Town:**

Music : B. Music, M.Muse, Diploma course in Tourism / Buddhism & Archaeology.

**Jhuthi Tali, Campus:**

Ph.D. Research Wing

