



National Education Policy-2020
SUBJECT: ECONOMICS

BUNDELKHAND UNIVERSITY
JHANSI



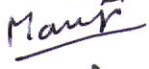
NEP 2020 Syllabus M.A. Economics

(Year 2022-2023 - I & II Semester)
(Year 2023-2024 - III & IV Semester)

Convinor - Prof. Asha Sahu 

Members - Prof. Kalpna Niranjana 

Prof. UmaRatan Yadav 

Prof. Manjri Damele 

External Expert - Dr. Nisha Mishra 

Dr. Vandana Dwivedi

	Semester	Paper Title	Theory/ Practical	Credits
M.A. (P)	I Semester	I Micro Economics (P-1)	Major Compulsory Paper	05
		II Public Economics (P-1)		05
		III Indian Economics Policy (P-1)		05
		IV (A) Research Methodology (P-1)	Major Optional Paper (Anyone)	05
		IV (B) Agricultural Economics (P-1)		
		IV (C) History of Economics Thought (P-1)		
IV (D) Labour Economics (P-1)				
V Research Project (Industrial/Economic Survey)		04		
VI Minor Paper (Any One)		04		
M.A. (P)	II Semester	I Micro Economics (P-2)	Major Compulsory Paper	05
		II Public Economics (P-2)		05
		III Indian Economics Policy (P-2)		05
		IV (A) Research Methodology (P-2)	Major Optional Paper (Anyone)	05
		IV (B) Agricultural Economics (P-2)		
		IV (C) History of Economics Thought (P-2)		
IV (D) Labour Economics (P-2)				
V Research Project (Seminar Presentation)		04		
M.A. (F)	III Semester	I Macro Economics (P-1)	Major Compulsory Paper	05
		II Inter National Economics (P-1)		05
		III Quantitative Method (P-1)		05
		IV (A) Economics Growth and Development (P-1)	Major Optional Paper (Anyone)	05
		IV (B) Environmental Economics (P-1)		
		IV (C) Demography (P-1)		
IV (D) Industrial Economics (P-1)				
V Research Project (Construction Of Synopsis)		04		
M.A. (F)	IV Semester	I Macro Economics (P-2)	Major Compulsory Paper	05
		II Inter National Economics (P-2)		05
		III Quantitative Method (P-2)		05
		IV (A) Economics Growth and Development (P-2)	Major Optional Paper (Anyone)	05
		IV (B) Environmental Economics (P-2)		
		IV (C) Demography (P-2)		
IV (D) Industrial Economics (P-2)				
V Research Project (Dissertation & Viva Voce)		04		
			Total 100	

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Choice Based Credit System (CBCS)

Course Structure

M.A. Economics (Semester I & II)

With Effective From, 2022-2023

Semester	Paper No.	Type of the Paper	Lectures Per Week	Total No. of Lectures	Marks			Credits
					ESE	ES	Total	
I	I (Compulsory)	Major	6	50	75	25	100	5
	II (Compulsory)	Major	6	50	75	25	100	5
	III (Compulsory)	Major	6	50	75	25	100	5
	IV (Optional)	Major (Any One)	6	50	75	25	100	5
	V Research Project	Minor			50*	50*	100	4
	VI (Optional)	Minor (Any One)			75	25	100	4
II	I (Compulsory)	Major	6	50	75	25	100	5
	II (Compulsory)	Major	6	50	75	25	100	5
	III (Compulsory)	Major	6	50	75	25	100	5
	IV (Optional)	Major (Any One)	6	50	75	25	100	5
	V Research Project	Minor			50*	50*	100	4
Total			48	400	700	300	1000	52

1) End of Semester Examination (E.S.E.) :

75 Marks

2) Internal Assessment (C.A.):

25 Marks

* External Assessment (Research Project) :

50 Marks

* Internal Assessment (Research Project) :

50 Marks

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BUNDELKHAND UNIVERSITY, JHANSI

Choice Based Credit System (CBCS)

Course Structure

M.A. Economics (Semester III & IV)

With Effective From, 2023-2024

Semester	Paper No.	Type of the Paper	Lectures Per Week	Total No. of Lectures	Marks			Credits
					ESE	ES	Total	
III	I (Compulsory)	Major	6	50	75	25	100	5
	II (Compulsory)	Major	6	50	75	25	100	5
	III (Compulsory)	Major	6	50	75	25	100	5
	IV (Optional)	Major (Any One)	6	50	75	25	100	5
	V Research Project	Minor			50*	50*	100	4
IV	I (Compulsory)	Major	6	50	75	25	100	5
	II (Compulsory)	Major	6	50	75	25	100	5
	III (Compulsory)	Major	6	50	75	25	100	5
	IV (Optional)	Major (Any One)	6	50	75	25	100	5
	V Research Project	Minor			50*	50*	100	4
Total			48	400	700	300	1000	48

3) End of Semester Examination (E.S.E.) :

75 Marks

4) Internal Assessment (C.A.):

25 Marks

* External Assessment (Research Project) :

50 Marks

* Internal Assessment (Research Project) :

50 Marks

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Question Paper Pattern M.A. Economics

(With Effect From 2022-23)

Duration: Three Hours

Max. Marks: 75

Short Notes/Answers on any Six. Out Of Ten (Each Question 05 Marks) 30
Marks
Long Answers on any three. Out Of Six (Each Question 15 Marks) 45
Marks

M.A. ECONOMICS (FINAL)

(III & IV – SEMESTER)

(EXAMINATIONS - 2023-24)

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(MAJOR COMPULSORY PAPER)

Paper – I Macro Economics (P-1)

Unit - 1 : National Income and Accounts

National Income, different forms of national income accounting-social accounting, input output accounting and balance of payments accounting, Flow of funds accounting. Circular flow of Income in two, three and four sector economy.

Unit - 2 : Theory of Employment and Consumption Function

Say's law of markets and the classical theory of employment. Keynes's objection to the classical theory, Keynesian theory of employment, Post Keynesian approach. Keynes psychological law of consumption- implication of law, Short-run and long-run consumption function. Empirical evidence on consumption. Income-consumption relationship- Absolute income, Relative income, Life cycle and Permanent income hypotheses.

Unit - 3 : Investment Function

Concept and types of investment, Marginal efficiency of investment, Marginal efficiency of capital and investment- long run and short run, The Multiplier, The accelerator, Relationship between multiplier and accelerator in investment behavior.

Unit - 4 : Neo-classical and Keynesian Synthesis

Concept of Interest, New classical and Keynesian views on Interest, The IS-LM model. Extension of IS-LM model with Fiscal and Monetary Policy.

BASIC READING LIST –

- Shapiro Edeord, "Macro Economic Analysis", Galgotia Publication Pvt. Ltd., New Delhi.
- Ackley G., "Macroeconomics: Theory and Policy", Macmillan, New York.
- Jha R., "Macroeconomics: Theory and Policy", Wiley Eastern Ltd., New Delhi.
- Ahuja, H.L (2012) : Macroeconomics: Theory and Policy , S. Chand & Company, New Delhi.
- Jhingan, M.L (2010): Macroeconomics , Vrinda Publications, New Delhi.

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Paper -II Inter National Economics (P-1)

Unit - 1 : Basic Concepts and Theories of International Trade I

Nature, Importance and scope of International Trade; Differences and similarities between International Trade and Inter-regional Trade; International division of labour and specialization; concept of offer curves and production possibility curve; Theory of absolute cost advantage, Ricardian theory of comparative cost advantage and its application in underdeveloped countries.

Unit - 2 : Theories of International Trade II

Opportunity cost theory of International trade; Theory of factor price equalization; Empirical testing of theory of absolute cost and comparative cost; Hecksher- Ohlin theory of trade; relevance of Hecksher- Ohlin theory in present scenario; its superiority over classical theory; Leontief Paradox; Samuelson's Factor price Equalization Theorem.

Unit - 3 : Terms of trade, Gains from Trade

Terms of trade- meaning and various concept, their uses and limitations, Factors affecting it , terms of trade and underdeveloped countries. Gains from international trade, their measurement and distribution. International trade and economic development. Mills' theory of Reciprocal Demand.

UNIT IV: Tariffs, Quotas and Trade Multiplier

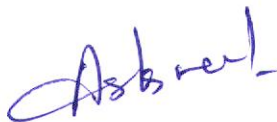
Tariffs – meaning and types; effects of tariff; Optimum tariff and welfare. Quota- meaning, objectives, types and effects of import quotas; Tariffs vs. quotas; issues related to dumping. Free trade vs. Protection. The concept of Trade Multiplier. International cartels.

BASIC READING LIST –

- Soderston, Bo (1991), International Economics, The Macmillan Press Ltd., London.
- Bhagwati, J. (Ed.) (1981), International Trade, Selected Readings, Cambridge, University Press, Massachusetts.
- Kindleberger, C.P.(1973), International Economics, R.D.Irwin, Homewood.

E- Resources

- Macro and International Economics' Course by Prof. Simon Johnson; Massachusetts Institute of Technology – Open Educational Resource available at <https://ocw.mit.edu/courses/15-015-macro-and-international-economics-fall-2011/>



Paper-III : Quantitative Method (P-1)

Unit - 1 : Introduction and Basic Concepts

Meaning of Quantitative Techniques, Classification of Quantitative Techniques, Limitations of Quantitative Techniques. Planning of statistical enquiry.

Unit - 2 : Statical Average - Central Tendency.

Meaning and Importance Of Statical Average, Objects And Functions Of Statical Average, Kinds Of Average - Mean, Mode, Median, Quartile, Quintile, Octile, Decile Geometric mean and Harmonic mean.

Unit - 3 : Dispersion, Skewness And Kurtosis.

Dispersion - Range, Inter Quartile Rang, Percentile Rande, Mean deviation From Mean, Mode, Median, Quartile deviation, Standard deviation, Coefficient of variation, Larenze Curve, Skewness And Kurtosis.

Unit - 4 : Correlation And Concurrent Deviation.

Meaning and Definition Of Correlation, Importance Andt Types Of Correlation Methods Of determining Correlation - Karl - Pearson's method, Spearman Ranking method and Coefficient Of Concurrent Deviation.

BASIC READING LIST -

- Speigal, M.R. (1992) Theory and problems of Statistics Mc Graw Hill Book Co. London
- Handy A.T. (1999) Operations Research Prentice Hall of India, New Delhi.
- Gupta S.C. (1993) Fundamenntals of Applied Statistics S. Chand & Sons, New Delhi.
- Taha, H.A. (1997) Operation Reseach : An Introduction (6th Edition) Prentice Hall of India Pvt. Ltd. New Delhi.
- Elhence D.N. - Theory & Practice of Statistics.
- Yule & Kendall - Introduction to Theory of Statistics.
- Singh S.P. - Shankhyaki Siddhant Avamvyavhar - S. Chand & Sons, New Delhi (Hindi).
- Shukla & Sahay - Principles of Statistics Sahitya Bhawan, Agra (Hindi).
- Singhal Mohan - Elements of Satistics - Lakshmi Narain Agarwal - Agra - 3

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(MAJOR OPTIONAL PAPER)

Paper IV A : Economics of Growth And Development (P-1)

Unit - 1 : Introduction:

Meaning and Measurement of Economic Growth and Development –
Measuring Development and Development Gap, Factors affecting Economic growth
and Development.

Unit - 2 : Economic Growth - I

Economic growth and development : capital labour and technology, Growth models - Harrod
and Domar, instability of equilibrium, Neo classical growth models-Solow and Meade, Mrs.
Joan Robinson's growth model

Unit - 3 : Economic Growth - II

Technological progress - embodied and disembodied technical progress, Hicks Harrod; Growth
models of Kaldor golden rule of accumulation, Stability of equilibrium money in economic
growth.

Unit - 4 : Social and Institutional Aspects of Development.

Development and underdevelopment, perpetuation of underdevelopment : Poverty - Absolute
and relative, Measuring development and development gap - Per Capita income. inequality of
income, Human resource development, population problem and growth pattern of population -
Theory of the demographic transitions; Population as limits to growth and as ultimate source -
population, poverty and environment;

BASIC READING LIST :

- Basu, Kaushik (2010): Analytical Development Economics: The Less Developed Economy, Oxford University Press.
- Dasgupta, Dipankar: Growth Theory, Oxford University Press, 2007
- Ghatak, S., An Introduction to Development Economics. Allen and Unwin London, latest edition.
- Hayami, Y., Development Economics, Oxford University Press, New York, 2010 (5th Impression)
- Hayami, Yujiro & Godo, Yoshihisa (2005) : Development Economics: From the Poverty to the Wealth of Nations, Oxford University Press.
- Hendrik Van Den Berg, Economic Growth and Development, McGraw-Hill International Edition, 2005
- Jhingan, M.L (2013): Economics of Development and Planning, Vrinda Publications, New Delhi.
- Jhingan, M.L (2013): Vikas Ka Arthshastra Awam Niyojan, Vrinda Publications, New Delhi.
- Lal, S.N (2012): Vikas, Niyojan Awam Paryavaran, Shiva Publishing House, Allahabad.
- Lekhi, R.K (2013): Economics of Development and Planning, Kalyani Publishers. New Delhi.

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Paper IV (B) Environmental Economics (P-1)

Unit - 1 : Introduction:

Key environmental issues and problems, economic way of thinking about these problems, basic concepts from economics; Pareto optimality and market failure in the presence of externalities; property rights and other approaches.

Unit - 2 : The Design and Implementation of Environmental Policy:

Overview, Pigouvian taxes and effluent fees, tradable permits, implementation of environmental policies in India and international experience; trans- boundary environmental problems; economics of climate change.

Unit - 3 : Environmental Valuation Methods and Applications:

Valuation of non-market goods and services--theory and practice; measurement methods; cost-benefit analysis of environmental policies and regulations.

Unit - 4 : Sustainable Development:

Concepts; measurement; perspectives from Indian experience.

BASIC READING LIST –

- Bharucha, Erach : Paryavaran Adhyann, Orient Blackswan.
- Bhattacharya, Rabindra Nath (2002): Environmental Economics – An Indian Perspective, Oxford University Press.
- Eugene, T (2005) : Environmental Economics, Vrinda publications, Delhi.
- Jhingan, M.L & Sharma, C.K (2009) : Environmental Economics Theory Mgt & Policy, Vrinda publications, Delhi.
- Kolstad, Charles. D (2012): Intermediate Environmental Economics, Oxford University Press
- Nagre, Vijay.H (2012) : Environmental Economics, Chandralok Prakashan.
- Singh, Kartar & Shishodia (2007): Environmental Economics: Theory and Applications, Sage India.
- Singh, S.R(2012): Environmental Economics, APH Publishing Corporation, Delhi.
- Smith, Stephen (2011): Environmental Economics: A Very Short Introduction, Oxford University Press.
- Tripathi, Daya Shanker : Paryavaran Adhyayan, Motilal Banarasi Dass Pvt Ltd.

Paper IV C : Demography (P-1)

Unit - 1 : Introduction

Meaning, Definition. Subject Matter, Scope And Importance of Demography, Techniques of Demographic Analysis, Relation of Demography with Other Disciplines. Demographic Events, Sources And Method of Data Collection.

Unit - 2 : Theories Of Population

Pre-Malthusian Population Theories, The Malthusian Theory Of Population, Neo-Malthusianism, Optimum Theory Of Population, Biological Theory Of Population, Theory of Demographic Transition, Socio-Economic Theory of Population And General Theory Of Population.

Unit - 3 : Fertility, Nuptiality and Mortality

Importance of study of fertility - Total fertility rate, Gross reproduction rate and net reproduction rate; Levels and trends of fertility in more and less developed countries; Factors affecting fertility - Socio-economic factors, economic status, health, education, nutrition, caste, religion, race, region, rural-urban and status of husband and wife; Nuptiality - Concept and analysis of marital status, single mean age at marriage; Synthetic cohort methods; Trends in age at marriage; Mortality - Death rates, crude and age - specific; Mortality at birth and infant mortality rate; Levels and trends in more and less developed countries; Sex and age pattern of mortality.

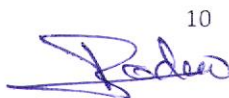
Unit - 4 : Life-Table, Population Projection And Migration.

Meaning And Definition of Life-Table, Classification of Life-Table, Method of Population Projection, Importance and Limitations of of Population Projection. Meaning And Definition of Migration, Migration v/s Mobility, Measurement of Migration, Classification of Migration, Factors Affecting, Hurdles and Consequences of Migration.

BASIC READING LIST -

- Agarwala S.N. (1972), India's Population Problem. Tata McGraw-Hill Co. Bombay,
- Bose, A (1996), India's Basic Demographic Statistics. B.R. Publishers Corporation, New Delhi.
- Choubey, P.K. (2000), Population Policy in India. Kanishka Publications New Delhi.
- Dogue, D.J. (1971), Principles of Demography. John Wiley, New York.
- Maurya M. L. Rinal Industrialization & Industrial Development.
- Gulati, S.C. (1988), Fertility in India An Econometric Study of a Metropolis Sage, New Delhi.
- Pant, J. C. (2010) Demography, Vishal Publishing Co. Jalandhar.



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Paper IV (D) : Industrial Economics (P-1)

Unit - 1 : Framework and Problems of Industrial Economics

Meaning, Nature, Scope, Significance and Framework of Industrial Economics. Concept and Organization of a firm - ownership control and objectives of the firm Passive and active behaviour of the firm.

Unit - 2 : Industrial Structure

Private And Public Sector, Larg MSME (Medium and Small Scale Industries) Village Industries. Industrial Combinations: Mergers and Amalgamations.

Unit - 3 : Market Structure

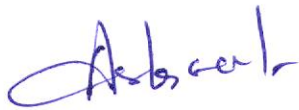
Sellers concentration; Product differentiation; Entry conditions; Economies of scale Market structure and profitability; Market structure and innovation; Theories of industrial location - Weber and Sargent Florence; Factors affecting location

Unit - 4 : Market Performance

Growth of the firm - Size and growth of a firm; Growth and profitability of the firm Constraints on growth; Productivity, efficiency and capacity utilization - concept and measurement, Indian situation.

BASIC READING LIST –

- Ahluwalia, I.J. (1985). Industrial Growth in India Oxford University Press, New Delhi.
- Barthwal. R.R. (1985). Industrial Economics, Waley Eastern Ltd., New Delhi.
- Cherunilam, F. (1994). Industrial Economics : Indian Perspective (3ed Edition) Himalaya Publishing House, Mumbai
- Desai. B (1999). Industrial Economy in India (3rd Edition), Himalaya Publishing House, Mumbai
- Divine, P.J. and R.M. Jones et. al. (1976), An Introduction to Industrial Economics georgeAllen and Unwin Ltd. London



(MAJOR COMPULSORY PAPER)

Paper : I Macro Economics (P-2)

Unit - 1 : Demand for Money

Classical approaches to demand for money- Quantity theory approach, Fisher's equation, Cambridge Quantity theory, Keynes's liquidity preference approach, Transaction, Precautionary and speculative demand for money, Aggregate demand for money.

Post Keynesian approaches demand for money- Patinkin's Real Balance Effect, Theory of Baumol, Tobin, Friedman and Modern Quantity theory. Crises in Keynesian economics and the revival of monetarism.

Unit - 2 : Supply for Money

Concept of money supply, Components of Money supply (M1, M2, M3, M4), Financial Intermediation- A behavioral model of money supply, determinates of Money supply, High- powered Money, Money Multiplier.

Organisation of India's Money market, Changing role of RBI, Monetary policy and Financial Sector Reforms.

Unit - 3 : Theory of Inflation

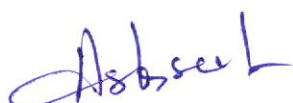
Concept and types of Inflation, Classical, Keynesian and Monetarist approaches to Inflation, Structural theory of inflation, Inflationary gap, Understanding inflation in India, Policies to control inflation, Phillips Curve analysis. Co-ordination of Fiscal and Monetary Policy.

Unit - 4 : Business Cycles

Kinds of Economic fluctuation, Nature and phases of Business cycle. Theories of Businesscycle- Schumpeter, Kaldor, Samuelson and Hicks. Control of business cycle.

Basic Reading List-

- Shapiro Edeord, "Macro Economic Analysis", Galgotia Publication Pvt. Ltd., New Delhi.
- Ackley G., "Macroeconomics: Theory and Policy", Macmillan, New York.
- Jha R., "Macroeconomics: Theory and Policy", Wiley Eastern Ltd., New Delhi.
- Jhingan, M.L (2012) : Samasti Arthshastra , Vrinda Publications, New Delhi.
- Ahuja, H.L (2012) : Samasti Arthshastra , S. Chand & Company, New Delhi. La, S.N (2012)



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Paper -II Inter National Economics (P-2)

Unit - 1 : New Theories of International Trade

Economies of scale, Imperfect competition – trade based on product differentiation and intra-industry trade intra-industry trade and its impact on developing economies. Economic growth and international trade: growth of factors of production-The Rybczynski theorem; Kravis and Linder theory of trade; technical progress; growth and trade in small and large countries; Immiserizing growth.

Unit - 2 : Balance of Payments

Meaning and components of balance of payments; Equilibrium and disequilibrium in the balance of payments; Factor causing disequilibrium in balance of payment; Adjustment mechanisms of balance of payment under Gold Standard, under flexible exchange rates (price effect), under elasticity approach, under capital movements and direct control for adjustment; balance of payment problems for developing countries.

Unit - 3 : Foreign Exchange Rate

Concept of Foreign exchange rate, Determination of Equilibrium exchange rate. Theories of Exchange rate determination – Mint Parity, Purchasing Power Parity theory and the Balance of Payment theory. Factor causing changes in exchange rates. Relative merits and demerits of fixed and flexible exchange rates, concepts of spot and forward exchange rates, convertibility of currency. Exchange control Meaning, features, objectives and methods of exchange control, Arbitrage and hedging; Devaluation - Devaluation of Indian Rupee and its impact on Indian economy.

Unit - 4 : Regional Blocks and World monetary system

Types of Economic Integration- Free trade area, Custom Union, Common Market, Economic Union, Free Economic Zones. Case Studies of Regional Trade Blocks - ASEAN, BRICS, EU, SAARC. Evolution in Global Governance – GATT-Dunkel Proposal ; WTO objectives, functions, conferences and issues TRIP, TRIM, GATS. International Monetary Fund - Origin, objectives, functions and working of the fund, India & IMF. World Bank (IBRD, IDA, IFC) - Functions, working, India and the World Bank. Asian Development Bank - Functions and Working; Overview of global economic discussion of G20.

BASIC READING LIST

- Carbough, R.J.(1999), International Economics, International Thompson Publishing, New York 1..
- Dana, M.S.(2000), International Economics; Study, Guide and Work Book (5th Edition), Routledge Publishers, London.
- Krugman & Obstfeld(2015), international Economics, PEARSON EDUCATION

E- Resources:

- 'Applied Macro and International Economics' Course by Prof. Robert Rigobon & Prof. Alberto Cavallo; Massachusetts Institute of Technology – Open Educational Resource available at <https://ocw.mit.edu/courses/15-012-applied-macro-and-international-economics-spring-2011/> Pa



Paper - III Quantitative Methods(P-2)

Unit - 1 : Index Number & Time Series.

Index Number - meaning and Construction of index number, Family Budget method, Fisher's Ideal Index Number Laspeyre's Formula and Paasche's formula. Reversibility Test. Analysis of time series - meaning, Importance and its Components.

Unit - 2 : Regression Analysis And Ratio Variation.

Kinds Of Regression Analysis - Regression Line, Regression Equations and its coefficients. Ratio Variation.

Unit - 3 : Interpolation and Extrapolation.

Interpolation and Extrapolation - 1. Graphic method 2. Algebraic method - Parabolic curve method, Direct Binomial Expansion method, Newton's method and Lagrange's method.

Unit - 4 : Association of Attributes & Probability.

Association of Attributes - Percentage method, Meaning and Definition Of Probability, Permutation And Combination, Probability Theorems. T-Test, F-Test and Z-Test.

BASIC READING LIST –

- Speigal, M.R. (1992) Theory and problems of Statistics Mc Graw Hill Book Co. London
- Handy A.T. (1999) Operations Research Prentice Hall of India, New Delhi.
- Gupta S.C. (1993) Fundamentals of Applied Statistics S. Chand & Sons, New Delhi.
- Taha, H.A. (1997) Operation Research : An Introduction (6th Edition) Prentice Hall of India Pvt. Ltd. New Delhi.
- Elhence D.N. - Theory & Practice of Statistics.
- Yule & Kendall - Introduction to Theory of Statistics.
- Singh S.P. - Shankhyaki Siddhant Avamvyavhar - S. Chand & Sons, New Delhi (Hindi).
- Shukla & Sahay - Principles of Statistics Sahitya Bhawan, Agra (Hindi).
- Singhal Mohan - Elements of Statistics - Lakshmi Narain Agarwal - Agra - 3

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Paper IV (A) : Economics of Growth and Development (P-2)

Unit - 1 : Theories of Development

Classical theory of Development - contribution of Adam Smith Ricardo, Malthus and Karl Marx and development of capitalistic economy - theory of social change, Schumpeter and capitalistic development, innovation.

Unit -2 : Approaches to Development

Partial theories of growth and development - vicious circle of poverty, circular casuation, unlimits supply of labour, big push, balanced growth, unbalanced growth, critical minimum effortthesis, Dualism technical, behavioral and social.

Unit - 3 : Sectoral Aspects of Development.

Role of agriculture in economic development, Efficiency and productivity in agricultural, Globalization and agricultural growth; Rationale and pattern and industrialization in developing countries, The choice of techniques and appropriate technology and employment, efficiency of small scale vs large - scale production.

Unit - 4 : Trade and Economic Development :-

Internatlional trade as engine of growth; Static and dynamic gains from trade; Balance of payments. Tariffs and effective protection. Post GATT international economic order; WTO and deveolping countries.

BASIC READING LIST –

- Lekhi, R.K (2013): Economics of Development and Planning, Kalyani Publishers, New Delhi.
- Meier, G.M., Leading Issues in Economics Development, Oxford University Press, New Delhi, Latest edition.
- Mishra,S.K&Puri,V.K (2012): Economics of Development and Planning, Himalaya Publishers, Mumbai.
- Ray Debraj, Development Economics, Oxford University Press, Latest Edition.
- Singh, Kartar&Shishodia (2007): Environmental Economics: Theory andApplications, SageIndia.
- Singh,S.R(2012):EnvironmentalEconomics,APHPublishingCorporation,Delhi.
- Somashekar, NT: Developmental Economics, New Age Publication (Latest edition)
- Taneja,M.L&Myer,R.M (2011): Arthshastra Ki YojnayeAwamVistaar, Visha PublishingCompany,Jalandhar (New Delhi).
- Thirlwall, A.P., Growth and Development with Special Reference to Developing Economies, Macmillan, UK. 1999.
- Todaro,Michael.P&Smith,Stephen.C (2011) : Economic Development, Pearson.

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Paper IV (B) Environmental Economics (P-2)

Unit - 1 : The Theory of Externality-

Positive & Negative Externality; Public Goods; Private Goods; Public Bads; Market Failure and Pigouvian Solution- Pigouvian Tax.; Coase's Theorem And Property Rights; Eco- Labelling; Eco-Efficiency.

Unit - 2 : Social Limits to Growth Model; Green Accounting; Environmental Valuation-

Meaning, Need for Environmental Valuation, Methods of Environmental Valuation; Difficulty in Measuring Environmental Values, Environmental Damages and Its Valuation.

Unit -3 : Indian Constitution and the Environment; Environmental Management-

Meaning and Concept, Objectives and Goals, Obstacles; Environmental Impact Assessment; Environmental Education and Awareness-Dilemma of Environmental Ethics and Practical Problems, Environmental Education in India.

Unit - 4 : Population and Environment; Trade and Environment in the WTO Climate Change-

Meaning and Concept, Ozone Depletion, Acid Rain, Global Warming and Greenhouse Effect; Indian Environmental Issues and Legislations; Role of Judiciary in Environmental Protection and Conservation; International Environmental Issues and Legislations, Carbon Trading.

BASIC READING LIST –

- Bharucha, Erach : Paryavaran Adhyann, Orient Blackswan.
- Bhattacharya, Rabindra Nath (2002): Environmental Economics – An Indian Perspective, Oxford University Press.
- Eugene, T (2005) : Environmental Economics, Vrinda publications, Delhi.
- Jhingan, M.L & Sharma, C.K (2009) : Environmental Economics Theory Mgt & Policy, Vrinda publications, Delhi.
- Kolstad, Charles. D (2012): Intermediate Environmental Economics, Oxford University Press
- Nagre, Vijay. H (2012) : Environmental Economics, Chandralok Prakashan.
- Singh, Kartar & Shishodia (2007): Environmental Economics: Theory and Applications, Sage India.
- Singh, S.R(2012): Environmental Economics, APH Publishing Corporation, Delhi.
- Smith, Stephen (2011): Environmental Economics: A Very Short Introduction, Oxford University Press.
- Tripathi, Daya Shanker : Paryavaran Adhyayan, Motilal Banarasidass Pvt Ltd.



Paper IV C : Demography (P-2)

Unit - 1 : Compoition of Population And Density of Population

Sex-Composition, Age-Composition, Population Pyramid, Factors Determining Distribution of Population, Arithmetic Density, Physiological Density, Agricultural Density, Economic Density, Nutrition Density, Factors Determining Population Density.

Unit - 2 : Demographic Data Base in India

Study of census in India - Methodology and characteristics of census; Nature of information collected in 1971, 1981, 1991 and 2001 census in India; National Family Health Survey 1 and 2 and Rapid Household Survey; Changing characteristics of population in India; Population growth rates, trends and regional variation in sex ratio; Age structure of population, foetal, infant and child mortality rates; Maternal mortality rates; Life expectancy.

Unit - 3 : Population and Development with Reference to India

Population, economy and environment linkages - Population, health, nutrition, productivity nexus; Population and human development issues; Culture and fertility; Education and fertility, Demography and household economic behaviour.

Unit - 4 : Population Policy in India

Evolution of population policy in India - The shift in Policy from population control to family welfare, to women empowerment; Family planning strategies and their outcomes; Reproductive health, maternal nutrition and child health policies, Population and strategies for human development of different social groups; social impact of new reproductive technologies and their regulation; The new population policy; Tasks before the National Population Commission.

BASIC READING LIST –

- Agarwala S.N. (1972), India's Population Problem. Tata McGraw-Hill Co. Bombay,
- Bose, A (1996), India's Basic Demographic Statistics. B.R. Publishin Corporation, NewDelhi.
- Choubey, P.K. (2000), Population Policy in India. Kanishka Publications New Delhi.
- Dogue, D.J. (1971), Principles of Demography. John Wiley, New York.
- Maurya M. L. Rinal Industrialization & Industrial Development.
- Gulati, S.C. (1988), Fertility in India An Econometric Study of a Metropolis Sage, NewDelhi.

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Paper IV (D) : Industrial Economics (P-2)

Unit - 1 : Indian Industrial Growth and Pattern

Classification of industries; Industrial policy in India - Role of Public and private sectors; Recent trends in Indian industrial growth, MNCs and transfer of technology; Liberalization and privatization; Regional industrial growth in India; Industrial economic concentration and remedial measures Issues in industrial proliferation and environmental preservation; Pollution control policies.

Unit - 2 : Industrial Finance

Owned, external and other components of funds; role nature, volume and types of institutional finance - IDBI, IFCI, SFCs, SIDC, commercial banks. etc.

Unit - 3 : Industrial Labour

Structure of industrial labour, Employment dimensions of Indian industry, Industrial legislation; Industrial relations; Wages and problem of bonus - labour market reforms.

Unit - 4 : Current Problems of Selected Industries

Iron and Steel, Cotton textiles, Hute; Sugar, Coal; Cement and engineering goods Development of small-scale and cottage industries in India.

BASIC READING LIST -

- Hay D and D.J. Morris (1979) Industrial Economics : Theory and Evidence onfordUniversity Press, New Delhi.
- Kuchhal, S.C. (1980) Industrial Economy of India (5th Edition), Chaitanya PublishingHouse, Allahabad.
- Reserve Bank of India, Report on Currency and Finance (Annual).
- Singh, a. and A.N. Sadhu (1988), Industrial Economics, Himalaya Publishing HouseBombay.
- Patni - Industrial Economics
- Government of India. Economic Survey (Annual).

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