

① Programme Code: PHECO

## CURRICULUM FOR PRE-Ph. D COURSE WORK IN SOCIAL SCIENCES

### PAPER -1

#### (RESEARCH METHODOLOGY)

#### Objective:

The basic aim of Ph. D work is to make Students acquainted with basic research methodology, quantitative methods, statistical tools and computer applications in the field of Social Sciences Research.

#### UNIT I: SCIENTIFIC RESEARCH

Meaning and nature of research. Nature and characteristics of Scientific Research. Types of research- Experimental, Non experimental and Quasi experimental research.

#### UNIT II: RESEARCH PROBLEM

Meaning and characteristics of research problem. Sources of research problem. Identifying gap areas of research: National and International level. Feasibility and considerations of research problem. Identification of risk with original ideas. Selecting research problem.

#### UNIT III: RESEARCH PLAN

Formulating research problem, review of literature, Hypotheses Formulation. Selecting research design. Methods of drawing sample. Methods of data collection and Analysis of data.

#### UNIT IV: BASIC STATISTICAL TOOLS AND COMPUTER LITERACY

Measures and applications of Central tendency, Skewness, Kurtosis and variability. Correlation: Simple, Multiple and Partial correlation techniques. Chi-Square, F-test and t-test. ANOVA ( simple & complex ). Techniques of quantitative data analysis

Basic ideas about operating systems: Windows & Linux. Word processing. Spreadsheet basics. Data basics. Use of Spreadsheet, Excel, SPSS and SAS software for data analysis and presentation. Important Social Networking Sites with research and academic inclinations.

#### UNIT V: WRITING, REPORTING AND COMMUNICATING RESEARCH

Step in writing research proposal ( Ph.D and Research Grant ) and research report. (Thesis, Project, Article, Book and Book Review). Ethical issues in writing research report: Anti - Plagiarism provision

Steps in creating seminar presentations and poster presentations using software. Term Paper Writing.

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# CURRICULUM FOR PRE-Ph. D COURSE WORK IN SOCIAL SCIENCES

## Paper- II ECONOMICS

### **Objectives:**

The basic aim of this paper is to make students acquainted with Research Methods & Quantitative techniques in the field of research in Economics in relation to different Research frontiers & Issues in Development Economics, Macroeconomics, International Economics, Public Economics and Indian Economy.

**Unit I: Research Methods in Economics:** Nature of Inquiry and Truth: Ontology and Epistemology of Economic Events; Methodological Approaches to Economics: Individualism, Socialism and Existentialism, Significance and Role of Assumptions of a Theory, Theory and Practice, Inductive and deductive methods.

Approaches to Research: Descriptive vs. Analytical, Applied vs. Fundamental, Quantitative vs. Qualitative, Conceptual vs. Empirical, Time Consideration: Historical, Experimental and Ex-Post Facto.

Steps in Research Process: Formulation of the Research Problem, Literature Survey, Development of Working Hypothesis, Preparation of the Report, References and Bibliography.

**Unit II Quantitative Techniques:** Linear Regression with Multiple Variables, Simultaneous Equations Models, Lagged Variables and Distributed Lag Models, Dummy and Proxy Variables, Introduction of Multivariate Analysis, Time Series Analysis.

**Unit III Issues in Development Economics:** Poverty, Inequality, Regional Disparity, Measurement of poverty and inequality, Regional Development-Meaning and Scope, Urbanisation, Sustainable Development, Nature of State Intervention and Process of Regional Development, Problem Region- North Bihar.

**Unit IV: Issues in Macro Economics and International Economics:**

Macroeconomic Problems of Inflation and Unemployment: Measurement of Inflation: WPI & CPI in India; Causes, Consequences and Remedies of Inflation; Relationship between Inflation and Unemployment; Monetary and Fiscal Policies as stabiliser, Fiscal and Monetary policy conflict, Banking and Financial Institutions.

International Institutions: WTO and Its Impact, Regional Blocks, Open Economy macro-Economic Policies; Globalisation and Its Challenges

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**Unit V: Issues in Public Economics:** Public Revenue, Public Expenditure, Public Debt, Indian Tax System, Budget, Public Goods.

**Unit VI: Issues in Indian Economy:** Economic Planning in India, Population, Unemployment, Migration, Urbanisation, Rural Credit, Economic and Social Infrastructure, Privatisation and Disinvestment, Rural Development Programmes, Irrigation and Flood Control, Food Problem and Food Security, Social Forestry

**Unit VII Research Frontiers:**

- Validation of Economic Theory and Policy
- Issues in International Economics
- Study on Bihar Economy
- Study and Evaluation of Rural Development Programmes
- Demographic Dynamics
- Agricultural Dynamics
- Industrial Problems and Policies
- Money, Banking and Financial Institutions
- Issues in Social Sector and Public Policy
- Labour and Gender Issues
- Issues in Environmental Economics
- Intellectual Property Rights
- Contemporary Issues like Economic Reforms, Energy Crisis, Micro Financing, Non Farm sector, Informal Sector and its linkages

**Suggested Readings:**

- Gujarati, D.M., Basic Econometrics, Mc Graw Hill
- Nachane, D.M., Econometrics: Theoretical Foundations and Empirical Perspectives, Oxford University Press
- Desai, Meghanand, Applied Econometrics, Mc Graw Hill
- Koutsoyannis, A., Theory of Econometrics, Publisher: Ane Books
- Hejendra, B.J and F.V. Ploeg, Foundation of Modern Macro Economics, Oxford University Press, Oxford
- Blanchard Oliver & Fischer Stanley, Lectures on Macro Economics, Cambridge: MIT Press
- Salvatori, Dominic, International Economics, John Wiley
- Boumal, W.J and W.E. Oates, The Theory of Environmental Policy: Externalities, Public Goods and the Quality of Life, Englewood Cliffs, Prentice Hall
- Kapila, Uma, Indian Economy since Independence, Academic Foundation, New Delhi.

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**Course Outcome:**  
After completion of the course the students will be able to take up theoretical as well as empirical research on Regional, National and International issues in the area of Economics for advancement of knowledge and suggest suitable policy measures for public welfare.

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Programme code: MAECO

# SYLLABUS

The Two Year (Four Semester)  
Post Graduate Degree Programme

Subject:- ECONOMICS

**M.A. Economics**

**In the faculty of Social Sciences**

**Programme Code: M.A. (ECO)**

**Under**

**Choice Based Credit System (CBCS)**

**(To be effective from 2018-19)**

*Prakash*  
6/8/18  
(Dr. Manoj Prakash)

*Dixona*  
6/8/18  
(Dr. P. A. Dixona)  
convener, Expert comm  
for CBCS in Economics

*Sanyal*  
24/8/18

*Prakash*  
24/8/18  
*Mishra*  
24/8/18

*Dixona*  
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Patna

**Programme Specific Outcomes (PSO):**

- PSO-1: Our programme provides advancement and dissemination of knowledge in the field of Economics and development of critical thinking among students.
- PSO-2: enhances academic paradigms of students
- PSO-3: updates research skills to enable students to undertake research in socially, economically and environmentally relevant areas
- PSO-4: creates employability in academics, banking, insurance, administration, corporate etc and enriches employability in corporate sector where accuracy is needed in the behaviour of economic variables through application of mathematical methods.
- PSO-5: trains students as better and responsible citizens of society.



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**Patna University**

# M.A.ECONOMICS

## SEMESTER – I

### CC-1: Micro Economic Analysis-I

**Course Objectives:-** This course is aimed at providing knowledge on basic Economic Principles to gain Decision making skills about Consumer's and Firm's behaviour.

**Module 1: Consumer/ Demand Theory:** Marshallian Utility Analysis, Indifference Curve Analysis, Price Effect, Income and Substitution Effects (Slutsky and Hicks), Consumer Surplus- Hicksian Approach, Compensated Demand Curve, Revealed Preference Analysis, Hicks' Revision of Demand Theory, The Pragmatic Approach to Demand Theory, The Constant Elasticity of Demand Function, The Dynamic Demand Functions, The Empirical Demand Function, The Linear Expenditure System.

**Module 2: Production Theory:** Iso-quant, Production Function; Law of variable proportions; Returns to Scale; Linear Homogeneous Production Function – Cobb Douglas Production Function, CES Production Function, Cost Functions – Traditional Theory of Cost, Modern theory of Cost.

**Module 3: Perfect Competition:** Features of Perfect Competition, Determination of Market Price and Quantity, Short Run and Long Run Equilibrium of the Firm and Industry, Derivation of Supply curve.

**Module 4: Imperfect Competition I:** Monopoly: Short and Long Run Equilibrium, Price Discrimination, Monopoly Power Control and Regulation of Monopoly, Monopsony, Bilateral Monopoly; Chamberlain's Monopolistic Competition –Short and Long Run Equilibrium.

**Module 5: Imperfect Competition II:** Duopoly Models: Cournot, Bertrand, Edge Worth and Stackelberg Models. Oligopoly: Characteristics, Sweezy's Kinked Demand model, Models of Cartels and Price Leadership.

**Course Outcome:-** After the successful completion of the course students will be able to analyse Micro Economic Theory and apply It in Business Decision making.

#### BASIC READING LIST:

1. Koutsoyiannis, A: *Modern Microeconomics*, Macmillan
2. Ahuja: *Advanced Economic Theory*,
3. Pindyck, R.S. and D.L.Rubinfeld: *Microeconomics*, Pearson Educational
4. Crystal, R. and A. Lipsey: *Microeconomics*, Oxford University Press.
5. Varian, H.R.: *Intermediate Microeconomics*, W.W. Norton & Co
6. Krugman, Paul Wells, Robin *Microeconomics*, Worth Publishers W H FREEMAN & CO

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7. Baumol, W.J., *Economic Theory and Operations Analysis*, Prentice Hall.
8. Chamberlin, E.H., *The Theory of Monopolistic Competition*.
9. Henderson and Quandt, *Micro Economic Theory, A Mathematical Approach*.
10. Hicks, J.R., *Revision of Demand Theory*.
11. Hicks, J.R., *Value and Capital*. Marshall, A., *Principles of Economics*
12. Robbins, L., *The Nature and Significance of Economic Science*
13. Robinson, Joan., *The Economics of Imperfect Competition*.
14. Samuelson, P.A., *Foundations of Economic Analysis*.
15. Stigler, G.J., *The Theory of Price*.
16. Williamson, O.E., *The Economics of Discretionary Behaviour* (Prentice-hall, 1964)
17. Cyert, R.M., and J.G March, *A Behavioural Theory of the Firm* (Prentice-hall, 1963)
18. Hal. R. Varian, *Micro Economic Analysis*
19. Mascollel, Whinston & Green, *Micro Economic Theory*, OUP

### *M. A. ECONOMICS*

#### *SEMESTER - I*

#### *CC- 2: Macro Economic Analysis- I*

**Course Objectives:-** This course aims to provide students strong fundamentals of Macro Economic Theories, Policies and Models in a historical prospective.

**Module 1: National Income Accounting:** Approaches of Macro Economics and Variables – Circular Flow of Income in Two, Three and Four-Sector Economy; Different Forms of National Income Accounting – Social Accounting, Input-Output Accounting, Flow of Funds Accounting and Balance of Payments Accounting.

**Module 2: Consumption Function:** Consumption Function – Keynes Psychological Law of Consumption – Implication of the Law; Short-Run and Long-Run Consumption Function; Empirical Evidence on Consumption Function; Income – Consumption Relationship – Absolute Income, Relative Income, Permanent and Life Cycle income Hypotheses and their Reconciliation.

**Module 3: Investment Function:** Marginal Efficiency of Capital and Investment – Long Run and Short Run Marginal Efficiency of Investment and Level of Investment, Accelerator Theories namely Simple Investment Multiplier, Dynamic Multiplier, Accelerator and Super Multiplier.

**Module 4: Supply of Money:** Measures of Money Supply, Theories of Money Supply, Monetary Transmission Mechanism and RBI approach to money supply; High Powered Money and Money Multiplier; Budget Deficits and Money Supply and Control of Money Supply, Analysis and Variations in Money Supply in India.

**Module 5: Demand for Money:** Theories of Demand for Money – Classical Approach to Demand for Money – Quantity Theory Approach, Fisher's Equation, Cambridge Quantity Theory, Keynes Liquidity Preference Approach, Transaction, Precautionary and Speculative Demand for Money, Aggregate Demand for Money; Derivation of LM curve.

**Course Outcome:-** After the completion of this course students will develop a critical insight on classical and Keynesian Macroeconomic models and their functioning at different market conditions.

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### **BASIC READING LIST:**

1. Renern D.L. (1996) *Advanced Macro Economics*, McGraw Hill Company Limited, New York.
2. Scarfe, B.L. (1977), *Cycles Growth and Inflation*, McGraw Hill, New York.
3. Shapiro, E. (1996), *Macroeconomic Analysis*, Galgotia Publications, New Delhi.
4. Edey, M and A.T.Peacock (1967), *National Income and Social Accounts*, Hutchinson University Library, London.
5. Powelson, J.P. (1960), *National Income and Flow of Funds Analysis*, McGraw Hill, New York.
6. Rao, V.K.R.V. (1983), *India's National Income: 1950 to 1980*, sage Publications, New Delhi.
7. Ruggles, R.and N.Ruggles (1956), *National Income Accounts and Income Analysis*, McGraw Hill, New York
8. Duesenberry, J.S (1949), *Income, Saving and the Theory of Consumer Behaviour*. Harvard University Press, Harvard.
9. Friedman.M. (1957), *The Theory of Consumption Function*, Princeton University Press, Princeton.
10. Mueller, M.G. (1966), *Readings in Macroeconomics*, Holt Rinehart and Winston, New York

### **M. A. ECONOMICS**

#### **SEMESTER - I**

#### **CC- 3: Mathematical Methods**

**Course Objectives:-** It is designed to familiarize and train students with the basic **Mathematical Concept, Tools and Techniques** commonly used in the exposition and analysis of Economic problems.

**Module 1:** Concept and Types of Function, Concepts of Derivative, Rules of Differentiation, Applications of Derivatives in Economics, Interpretation of Revenue, Cost, Demand and Supply Functions, Profit Maximisation, Elasticity and their types.

**Module 2:** Rules of Partial Differentiation, Interpretation and Applications of Partial Derivatives, Homogeneous Function, Euler's Theorem, Cobb-Douglas and CES Production Function. Rules of Integration- Definite Integration, Application of Integration in Economics, Consumer's Surplus and Producer's Surplus.

**Module 3:** Determinants and their Basic Properties, Matrix Algebra – Concept and Types, Simple Operation on Matrices, Matrix Inversion, Rank of Matrix, Solution of Simultaneous Equations Model through Matrix Method and Crammer's Rule; Concept of Vector and Its Properties.

**Module 4:** Constrained Optimization, Lagrangian Multiplier and Its Simple Economic Applications, Maximization of Utility and Maximization of Profits.

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**Module 5:** Introduction to Linear Programming, Formulation of Linear Programming Problem – Its Structure and Variables, Nature of Feasible, Basic, Optimal Solution, Solution of Linear Programming through Graphic Method, Concept of Duality.

**Module 6:** Input Output Analysis –Meaning and Basic Concepts, Open, Closed, Static and Dynamic Models, Game Theory- Basic Concepts of Game Theory, Zero Sum and Non Zero Sum Game, Pure and Mixed Strategy.

**Course Outcome:** On the completion of this course students will be able to use the appropriate technique of Calculus and Linear Algebra to solve the problems related to Economics and Finance.

***BASIC READING LIST:***

1. Monga, G.S. (1972), Mathematics and Statistics for Economists, Vikas Publishing House, New Delhi.
2. Chiang, A.C. (1988), Fundamental Methods of Mathematical Economics, Mac Graw Hill, New York.
3. Allen, R.G.D. (1974), Mathematical Analysis for Economists, Mac Millian Press and ELBS, London.
4. Dowling, E.T. (1992), Mathematical Economics 2<sup>nd</sup> Edition, Mac Graw Hill, New York.
5. Yamune, Taro (1975) Mathematics for Economists, Prentice Hall of India, New Delhi.

***M. A. ECONOMICS***

***SEMESTER – I***

***CC- 4: History of Economic Thought***

**Course objectives:** The course aims to give an insight into the Evolution of Economic Theories from the earliest times to the present day.

**Module 1:** Mercantilism- Main Policies / Principles related to Precious Metals, Role of State, Balance of Trade & Role of Export.

**Module 2:** Physiocracy - Natural Order, Product Net, Circulation of Wealth etc.

**Module 3:** Classical Economic Thinkers- Adam Smith, David Ricardo, Malthus, Scientific Socialism- Karl Marx, J S Mill.

**Module 4:** Neo Classical Economic Thinkers: Hicks, Myrdal, Arrow & Lewis

**Module 5:** Kautilya , Dada Bhai Naoroji, M.K. Gandhi ,M G Ranade ,G K Gokhale

**Module 6:** B.R. Ambedkar, Jawahar Lal Nehru ,D. R. Gadgil, Jai Prakash Narayan ,Ram Manohar Lohia, Jagjivan Ram, P. R. Brahmanand & C.N. Vakil ,VKRV Rao & Amartya Sen.

*Dr. P. R. Sen*

**Course Outcome:** After the completion of course students will be able to evaluate Heterogeneous Economic Thoughts in a historical perspective.

**BASIC READING LIST:**

1. Eric Roll- History of Economics Thought
2. Gide and Rist - A History of Economic Doctrines
3. Gray, A.; Development of Economic Doctrines
4. Haney – History of Economic Thought
5. Lenin, V.I., Imperialism- The Highest Stage of capitalism
6. Marx, K., A Contribution to the Critique of Political Economy
7. Marx, K., Capital Vol. I
8. Marx, K., Capital Vol. II
9. Schumpeter, A History of Economics Analysis Ten Great Economists
10. Roy, L.M., Arthk Vicharon Ka itihās (Hindi)
11. Ganguli, B.N. Indian Economic Thought Nineteenth Century Perspective, Tata McGraw Hill Publishing Co., New Delhi.
12. Srivastatva, S.K., History of Economics Thought, S. Chand & Co. Ltd.
13. Shama Shastri, R., Kautliya's Arthashastra (Translated), Mysore Printing & Publishing House, 1995.
14. Rangrajan, L.N., Kautliya's Arthashastra, Penguin Classics, 1992.
15. Nehru, Jawaharlal, Glimpses of World History, Oxford University Press, 1984.
16. Nehru, Jawaharlal, An Autobiography, Allied Publishers Pvt. Ltd., 1962.
17. Lohia, Ram Manohar, The Caste System
18. Lohia, Ram Manohar, Marx, Gandhi and Socialism.
19. Lohia, Ram Manohar, Economics After Marx (Hindi)
20. Singh, Ram Binod, India's Economic Development and Lohia's Thought.
21. Kapur, Mastram, Ram Manohar Lohia, Publications Division, New Delhi
22. Ranjan, Sudhanshu, Jayaprakash Narayan, National Book Trust.
23. Ambedkar, B.R., The Evolution of Provisional Finance in British India. 1916
24. Ambedkar, B.R., Small Holdings in India.
25. Sahay Sanjay, Leadership and Political Ideas of Babu Jagjivanram , Bharti Pustak Sadan, Patna.

**M. A. ECONOMICS**

**SEMESTER – II**

**CC- 5: Indian Economy- Issues and Policies-I**

**Course Objectives:-** The aim of the course is to enable students to understand the current Indian Economic Scenario and their routes in History and Global Prospective.

**Module - 1: Introduction-** Indian Economy during British Rule- Commercialization of Agriculture, Process of Industrialization, Composition of Foreign Trade, GNP and Occupation, Trends in National Income Growth & Structure; Physical Quality Life Index (PQLI), Human Development Index (HDI); Nature and Magnitude of Workforce and Inequality, Unemployment

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and Poverty, Measurement of Inequality and Poverty-Lorenze Curve and Gini Co-efficient, Head-Count Ratio, Poverty Gap Ratio, Sen's Index .

**Module - 2: Agriculture**-Performance since Independence - Across Crops and Zones, Institutional Structure - Land Reforms-Farm Size and Productivity, Agriculture Inputs, Technological Change in Agriculture - Sustenance of Agriculture Growth, Agriculture Finance, Credit, Role of Co-operatives, Agriculture Marketing, Pricing, Agrarian Crisis, Food Security, New Agricultural Strategy, 2<sup>nd</sup> Green Revolution,

**Module -3: Industry**-Growth and Pattern of Industrial Development- Industrial Stagnation, Trends in Industrial Productivity, Industrial Financing, Industrial Policies - Privatization and Disinvestment, Cottage and Small Scale Industries, Globalisation and Technology Transfer, Need and Impact of 4<sup>th</sup> Industrial Revolution

**Module -4: Service**-Sources of Service Sector Growth- Infrastructure, Physical and Social, Status and Policies -Transport, Energy, Telecommunication, Technology- Information Technology - Research and Development- - Health and Education, Knowledge Revolution & Human Capital Formation.

**Module - 5 Economic Reforms:** Changing Role of State; Globalization of Indian Economy, WTO and its Impact, National agenda for Governance. Issues in Export - Import Policy and Foreign Exchange Management Act (FEMA), Exchange Rate Policy, Foreign Capital and MNCs in India, Trade Reforms in India, Energy Crisis , Micro Financing, Second Generation Reforms, NITI Aayog, Recent Policy Initiatives- DBT, JAM, Cashless Economy & Demonetisation.

**Course outcome:** This course will enable students to analyse different Economic issues related to Indian Economy and suggest suitable corrective measures.

### ***BASIC READING LIST***

1. Ahluwalia, I. J. and I.M.D. Little (Eds.) 1999), India's Economic Reforms and Development (Essays in honor of Man Mohan Singh), Oxford University Press, New Delhi.
2. Bardhan, P.K. (9th Edition) (1999), The Political Economy of Development in India, Oxford University Press, New Delhi.
3. Bawa, R.S. and P.S.Raikhy (Ed). (1997), Structural Changes in Indian Economy, Guru Nanak Dev University Press, Amritsar.
4. Brahmananda, P.R. and V.R. Pancharukhi (Eds) (2001), Development Experience in the Indian Economy: Inter-State Perspectives, Bookwell, Delhi.
5. Chakravarty, S. (1987), Development Planning: The Indian Experience, Oxford University Press, New Delhi.
6. Dantwala, M.L.(1996): Dilemmas of Growth: The Indian Experience, Sage Publications, New Delhi.



7. Kapila, Uma (Ed.), Indian Economy Since Independence. Academic Foundation, New Delhi.
8. Rangrajan, C., Select Essays on Indian Economy, vol. I & vol. II, Academic Foundation, New Delhi
9. Datt, Rudder and Sundharam, K.P.M., Indian Economy, Latest Edition, S.Chand, 2012. 10. C.M.I.E. Reports on the Indian Economy.
11. Publications of Central Statistical Organization.
12. Publications of National Sample Survey Organization.
13. Five-Year Plans 11th to 12th Planning Commission, Govt. of India, New Delhi.
14. Jalan, Bimal (Ed.), Indian Economy: Problems and Prospects, Penguin.
15. Bhalla, G.S., Indian Agriculture.
16. Yojana (Monthly Journal)
17. Kurukshetra (Monthly Journal)
18. Indian Journal of Agricultural Economics
19. Srivastava, Mohan Prasad (2014), Vikas Ka Arthashastra evam Ayojan, ANE Publication, New Delhi.
20. Economic Survey: Different Issues
21. Bihar Ek Parichaya: Qmar Ahsan & Imtiyaz Ahmed
22. RBI Publications

**M. A. ECONOMICS**  
**SEMESTER - II**

**CC- 6: Economics of Growth and development-I**

**Course Objectives:-** The course aims to develop conceptual clarity on the various dimensions of Growth and Development in Less Developed Countries.

**Module I: Conceptual Framework-** Concept of Economic Growth, Economic Development, Economic Progress and Economic Welfare, Current trends- New International Economic Order - International Interdependence and Globalization-Dimensions of Development Gap- Human Development Index- Human Poverty Index- Multi-dimensional Poverty Index- Gender related Development Indices-Entitlement and Capability Approach, Concept of Inclusive & Sustainable Growth.

**Module II: Structural Transformation of Growth-** Rostow's stages of growth, Balanced vs Unbalanced Growth, Role of Technology and Capital in Economic Growth, Malthusian Theory of Population, Regional Growth Differences-Poverty & Inequality, Kuznet's Inverted U Hypothesis.

**Module III-Theories of Economic Growth -** Kaldor's growth theory, Classical models of Growth- Adam Smith and Ricardo, Marx and Schumpeter on Development and Future of Capitalism, W.A. Lewis & Renis-Fei Models of Economic Growth, Mahanobis Model, Harrod-Domar Model, Big -Push Theory.

**Module IV-Role of Social Aspect in Growth-** Human Capital and Development- The Costs and Benefits of population growth-Simon's Challenge, Demographic Dividend The Concept of Optimum Population- Education and Investment in Human Capital, Gender Gap in Development

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and the Problem of Missing women in the Indian Context-Strategies for Improving Education and Employment- Social Engineering and Inclusive growth.

**Course outcome:** After the completion of this course students will be able to address various Development problems confronted by LDCs and the gap between policy and practice.

### ***BASIC READING LIST***

1. Ray Debraj: Development Economics, Oxford, University Press 1999
2. Meier M. Gerald and Rauch: Leading issues in Economic Development, Oxford University Press. (2000)
3. Thirlwall. A.: Growth and Development with special Reference to Developing Economies, Palgrave Macmillan (2009)
4. Todaro M.P. D. Smith S.C: Economic development (8<sup>th</sup> Edition 2005), Person Education, Indian branch, Delhi
5. Todaro M.P. Economic development in the third World. (4<sup>th</sup> Edition 1991) Longman, Singapore.
6. Dev. Mahendra. S: Inclusive growth in India-collected essays., Oxford University press, New Delhi (2010)
7. Chauduri Ray, Jayasri: An introduction to Development and Regional planning with special reference to India. Orient Longman Kolkata (2001)
8. Yujiro Hayami and Yoshihisa Godo: Development Economics (3<sup>rd</sup> Edn) Oxford University Press (New Delhi)
9. Vandana Desai and Robert B Potter : The Companion to development studies-II Edn. Ahodder viva edn, Viva books Pvt. Ltd. New Delhi.
10. UNDP: Human Development Report, 2010
11. Srivastava, M.P.; Economics of Development and Planning, ANE Publications in Press.

### ***M. A. ECONOMICS***

### ***SEMESTER - II***

### ***CC- 7: Micro Economic Analysis-II***

**Course Objectives:-** This course intends to teach the students Advanced Micro Economic Theories and apply them in Decision making in the areas of Exchange and Welfare.

**Module 1: Alternative Theories of the Firm:** Baumol's Model, Williamson, and Marries Models, Full Cost Pricing Models, Bain's Limit Pricing, Behavioural Model of Cyert and March.

**Module 2: Distribution:** Ricardian and Modern Theories of Rent, Marginal Productivity Theory of Wages, Neo-Classical Theory of Interest, and Theories of Profit, Euler's Product Exhaustion Theorem, Technical Progress and Factor Shares.

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**Module 3: Equilibrium Analysis:** General Equilibrium-Walrasian Model, Features of Market Equilibrium: Existence, Stability (Marshall and Walrasian Conditions), Uniqueness. Cob-web models.

**Module 4: Welfare Economics:** Pigovian Welfare Economics, Pareto Optimum Conditions, Social Welfare Functions, Compensation Principles, Arrow's Impossibility Theorem.

**Module 5: Economics of Risk and Uncertainty:** Role of Expectations, Consumer's Choice involving Risk (Risk Takers, Risk Averse and Risk Neutral), Neumann - Morgenstern Index, Savage Hypothesis, Gambling and Insurance.

**Course Outcome:** By the end of this course students will develop the ability to link Microeconomic Theory with applied work and current economic scenario.

#### **BASIC READING LIST:**

1. Koutsoyiannis, A: Modern Microeconomics, Macmillan
2. Ahuja: Advanced Economic Theory,
3. Pindyck, R.S. and D.L. Rubinfeld: Microeconomics, Pearson Educational
4. Crystal, R. and A. Lipsey: Microeconomics, Oxford University Press.
5. Varian, H.R.: Intermediate Microeconomics, W.W. Norton & Co
6. Krugman, Paul Wells, Robin Microeconomics, Worth Publishers W H FREEMAN & CO.

### **M. A. ECONOMICS**

#### **SEMESTER - II**

#### **CC- 8: Macro Economic Analysis-II**

**Course objective:** This course enables students to acquaint and equip themselves with the Advance Macroeconomic Theories and the working of the Economy at the aggregate level.

**Module 1: Post-Keynesian Theories of Demand for Money:** Post-Keynesian Approaches to Demand for Money - Patinkin's Monetary Model- Real Balance Effect, Approaches of Baumol and Tobin, Friedman and the Modern Quantity Theory; Crisis in Keynesian Economics and the Revival of Monetarism .

**Module 2: Neo-classical and Keynesian Synthesis:** Neo-classical and Keynesian Views on Interest; The IS-LM model- Extension of IS-LM Model with Government Sector; Relative effectiveness of Monetary and Fiscal policies, IS-LM model in Open Economy.

**Module 3: Theory of Inflation:** Classical, Keynesian and Monetarist Approaches to Inflation; Structural Theory of Inflation, Philips Curve Analysis - Short Run and Long Run Philips Curve; The Natural Rate of Unemployment Hypothesis; Tobin's modified Philips Curve and Policies to Control Inflation.

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**Module 4: Business Cycles:** Business Cycles – Theories of Schumpeter, Samuelson and Hicks & Kaldor, Interaction of Multiplier and Acceleration Model, Control of Business Cycles – Relative Efficacy of Monetary and Fiscal Policies .

**Module 5: New Classical Macroeconomics:** The New Classical Macroeconomic Approach- Policy Implications of New Classical Approach – Rational Expectations Theory, Role of Expectations in Macroeconomic Analysis -Adaptive Expectations, Supply Side Economics - Assumptions and Evaluation, Macro Stabilization Policies and Introduction to New Keynesian Economics.

**Course Outcome:** By the completion of this course students will develop the ability of critical thinking and research inquisitiveness in Macro Economics and suggest suitable Policy Measures.

### ***BASIC READING LIST***

1. Gordon, R. and S.G.Harris (1998), *Macroeconomics*, Addison Wesley.
2. Culbertson, J.M. (1968), *Macroeconomic Theory and Stabilization Policy*, McGraw Hill, Kogekosh, Tokyo.
3. Chakravarty, S.C. (1985), *Report of the Committee to Review the Working of the Monetary System*, Reserve Bank of India, Bombay.
4. Gupta, S.B. (1995), *Monetary Planning India*, Oxford University Press, New Delhi..
5. Gurley, J. and E.S. Shaw (1960), *Money in a Theory of finance* Brookings Institution, Washington.
6. Mckinen, G.E. (1978), *Money, the Price Level and Interest Rates*, Prentice Hall of India, New Delhi.
7. Reddy, Y.V.(2000), *A Review of Monetary and Financial Sector Reforms in India-A Central Banker's Perspective*, UBSPD, New Delhi.
8. Fredrman, M. (1956), *Studies in the Quantity Theory of Money*, the University of Chicago Press, Chicago.
9. Keynes, J.M. (1936), *The General Theory of Employment, Interest and Money*, Macmillan, London.
10. Allen, R.G.D., *Macro Economic Theory*
11. Hansen, A.H., *A Guide to Keynes*
12. Hansen, A.H., *Monetary Theory and Fiscal Policy*
13. Johnson, H., *Essays in Monetary Economics*
14. Johnson, H., *Further Essays in Monetary Economics*
15. Keynes, J.M., *The General Theory of Employment, Interest and Money*
16. Klein L., *Keynesian Revolution*
17. Kurihara, K., *Introduction to Keynesian Dynamics*
18. Kurihara, K., *Monetary Theory and Public Policy*
19. Patinkin, Don., *Money, Interest and Prices*
20. CMIE Report: various Issues
21. Dornbusch, Fisher & Starta- *Macroeconomics (TMH)*
22. Shapiro E., *Macroeconomic Analysis (Galgotia Publications)*

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*M. A. ECONOMICS*  
*SEMESTER - II*  
*CC- 9: Statistical Methods*

**Course Objectives:-** This course is designed to provide knowledge of Statistical Tools related to various Statistical Tests necessary to conduct Research.

**Module 1:** Review Methods of Collecting Data – Census and Sampling – Their Advantages and Disadvantages, Types of Sampling, Measures of Central Tendency – Mean, Median and Mode, Measures of Dispersion – Range, Quartile Deviation, Mean Deviation, Standard Deviation, Variance, Coefficient of Variation, Skewness & Kurtosis.

**Module 2:** Review Concept of Correlation- Karl Pearson's Coefficient of Correlation, Spearman's Rank Coefficient of Correlation, Partial and Multiple Correlation, Simple Regression- Estimation of Regression- Coefficients by the Method of Least Squares.

**Module 3:** Review Methods of Constructing Index Numbers and Their Uses, Weighted Index- Laspeyer's, Pasche's and Fisher's Indices, Cost of Living Index Numbers.

**Module 4:** Concept of Probability- Classical and Empirical Definitions of Probability, Laws of Addition and Multiplication, Conditional Probability and Baye's Theorem, Mathematical Expectation, Binomial, Poisson and Normal Distribution- Its Concept, Mean and Variance, Properties of Normal Distribution.

**Module 5:** Concept of an Estimator and Its Sampling Distribution, Desirable Properties of a Good Estimator, Formulation of Statistical Hypotheses – Null and Alternative, Types of Errors, Testing of Hypothesis- Testing for Mean of a Population from Large Sample and Testing for Difference between Means of Two Population from Large Sample, Use of Z, t, Chi - Square and F - distributions.

**Module 6:** Time Series Analysis, Components of Time-Series Data, Determination of Secular Trend by Moving Average and Ordinary Least Square Methods.

*Note: Use of Electronic Calculator will be permitted.*

**Course Outcome:-** With the completion of this course students will gain knowledge and skills in handling economic data, analyzing and interpreting them with the help of statistical tools.

***BASIC READINGS LIST:***

1. Gupta, S.P. (2007), Statistical methods, Sultan Chand and Sons, New Delhi.
2. Nagar, A.L. and Das, R.K. (1983): Basic Statistics 2nd Edition, OUP, Delhi.

R. D. D. D.

3. Speigal, M.R. (1992), *Theory and Problems of Statistics*, McGraw Hill Book Co., London.
4. Jhunjhunwala, Bharat: *Business Statistics*.
5. Singh, S.P., *Statistics : Theory and Practice (Hindi)*.
6. Enhance, D.N. and Veena Enhance: *Fundamentals of Statistics*.
7. Monga, G.S., *Mathematics and Statistics for Economics*.
8. Agarwal, D.R., *Quantitative Methods*.
9. Spiegel, M.R., *Theory and Practice of Statistics*, Schaum Series.
10. Croxton, E.F. and Cowden, D.I. *Applied General Statistics*, Prentice Hall.

**M. A. ECONOMICS**

**SEMESTER - III**

**CC- 10: Indian Economy - Issues & Policies-II**

**Course Objectives:** The aim of the course is to teach the students current issues in Indian Economy with special reference to Bihar in Social, Fiscal and Financial perspectives.

**Module -1: Population and Employment:** Population- Growth Pattern, Implications- Rural Urban Migration – Population Policies, Trends in Employment – Unemployment, Nature and Policies, Changing Nature of Labour Market Reforms during recent years.

**Module - 2: Social Aspects:** Recent Trends in the State of Social Aspects, their Implications and Policies - Poverty- Inequality-Regional Imbalances, Child Labour, Gender, Caste Governance, Corruption- Environment-Natural Resources, Rights to Forests.

**Module- 3: Fiscal, Financial and External Sector/ Issues:** Fiscal Deficit, Trend and Significance- Fiscal Policies- Critical Appreciation – Central- State Fiscal Relationships, Latest Finance Commission, Major Recommendations -Recent Budgets, Parallel Economy— Demonetisation and GST, Monetary & Fiscal Measures in India ,Financial System, Banking and Insurance – Capital markets -Critical Appraisal of Monetary and Financial Sector Reforms – Financial Inclusion Structure and Direction of India's Foreign Trade- Balance of Payments, Post 90 Trends- Exchange Rates Trends &Policy.

**Module - 4: Bihar Economy:** Growth and Structure-Agriculture Performance, Major Challenges in Agriculture, Industrial Growth- Globalisation (WTO, ASEAN) and Bihar's Agriculture, Industrial Backwardness- Policies, Service Sector, Sources of Growth- Construction, Tourism, Trade, Transport, Energy, Information Technology, Migration – Dimension & Impact, Human Resources Development-Emerging Issues, Policies for Unemployment, Environment Degradation, Fiscal crisis.

**Course outcome:** This course will enable students to analyse different issues related to Indian Economy with special reference to Bihar and suggest suitable corrective policy measures.

R. D. Sharma

### **BASIC READING LIST**

1. Mahendra K Premi (2009), India's Changing Population Profile, National Book Trust, New Delhi.
2. Radhakrishna R, Shovan Roy ( Eds)( 2005) Handbook of Poverty in India, Oxford University Press , New Delhi
3. Jayaraj D, Subramanian S (2010) Poverty, Inequality and Population, Oxford University Press , New Delhi
4. Reethika Khera (2011) The Battle for Employment Guarantee, Oxford University Press , New Delhi \
5. Amartya Sen (2001) Development as Freedom, Oxford University Press , New Delhi
6. Amartya Sen, Jean Dreze (2005) India – Development and participation Oxford University Press , New Delhi
7. Aswini Deshpande (2011) The Grammar of Caste, Oxford University Press , New Delhi
8. Sivaramakrishnan KC, Amitabh Kundu Handbook of Urbanisation Oxford University Press , New Delhi
9. Y V Reddy (2011) Global Crisis, Recession and Uneven Recovery, Orient Blackswan, New Delhi
10. Mahendradev S (2010) Inclusive Growth in India Oxford University Press , New Delhi
11. Bhavani T A, Bhanumurthy N R,(2011), Financial Access in Post Reform India, Oxford University Press , New Delhi
12. Mohan Rakesh ( Eds) (2011), Growth with Financial Stability, Oxford University Press , New Delhi
13. Mihir Rakshit (2010) Money and Finance n the Indian Economy, Oxford University Press, New Delhi
14. George K K (1999), Limits to Kerala Model of Development, CDS, Trivandrum.
15. Sunil Mani, Anjii Kochar, Arun M Kumar, Crouching Tiger, Sacred Cows, D C Books, Kottayam.

### **M. A. ECONOMICS**

#### **SEMESTER – III**

#### **CC- 11: Economics of Growth & Development-II**

**Course Objective:** To teach students Advance Growth Models to develop the analytical skills and techniques necessary to evaluate economic policy choices and alternatives in developing economies.

**Module I:** Internal and International Migration- Urbanization- Todaro model, Choice of Technique- Intermediate Technology- Embodied and Disembodied Technological Change- Capital Output Ratio -Domestic and Foreign Sources of Capital-Hicks, Harrod - Domar and Solow-Swan Models of Growth- New Endogenous Growth Theory and Macroeconomic Determinants of Growth.

**Module II:** Prebisch-Singer Theses-Models of Export Led Growth- Neo Classical Supply Side Model- BOP Constrained Growth Model and Virtuous Circle Model- Trade Liberalization and Poverty Reduction in Developing Countries.

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**Module III:** Cost- Benefits Analysis- Shadow Prices and Project Evaluation-Investment Criteria-Total Factor Productivity and Growth. Uses of Input-Output Analysis and Linear Programming in Development Planning.

**Module IV:** Models of Meade, Phelps, Pesinetti, Mrs. Joan Robinson, Ramsey model of Economic Growth, Basic Idea of Endogenous Growth model-AK Model, Romer and Lucas Model.

**Course Outcome:** On completion of the course students will have an increased ability to apply suitable Growth Models for analysing problems of underdevelopment and to critically assess the Economic Policies of Developing Economies.

### ***BASIC READING LIST***

1. Ray Debraj: Development Economics, Oxford, University Press 1999
2. Meier M. Gerald and Rauch: Leading issues in Economic Development, Oxford University Press. (2000)
3. Thirlwall. A.: Growth and Development with special Reference to developing economies, Palgrave Macmillan (2009)
4. Todaro M.P. D. Smith S.C.: Economic development (8<sup>th</sup> Edition 2005), Person Education, Indian branch, Delhi
5. Todaro M.P. Economic development in the third World. (4<sup>th</sup> Edition 1991) Longman, Singapore.
6. Dev. Mahendra. S: Inclusive growth in India-collected essays., Oxford University press, New Delhi (2010)
7. Chauduri Ray, Jayasri: An introduction to Development and Regional planning with special reference to India. Orient Longman Kolkata (2001)
8. Yujiro Hayami and Yoshihisa Godo: Development Economics (3<sup>rd</sup> Edn) Oxford University Press (New Delhi)
9. Vandana Desai and Robert B Potter: The Companion to development studies-II 2<sup>nd</sup> edn. A Hodder viva edn, Viva books Pvt Ltd. New Delhi.
10. UNDP : Human Development Report, 2010
11. Bagchi, A.K., The Political Economy of underdevelopment, CUP
12. Baran, Paul A., The Political Economy of Growth, Penguin Books
13. Chakravarti, S., Alternative Approaches to the Theory of Economic growth
14. Chew, S.C and Denmark, R.A (Eds.), The Underdevelopment of Development, Sage Publication, New Delhi, 1996
15. Higgins, Benjamin, Economic Development, Central Book Depot, Allahabad
16. Meier and Baldwin, Economic Development
17. Meier, G.M., Leading issues in Economic Development 1999, OUP
18. Sen, A.K (Ed.) , growth Economics, Selected Reading, Penguin
19. Roy D., Development Economics (OUP).

**M. A. ECONOMICS**  
**SEMESTER - III**  
**CC- 12: Public Economics**

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**Course Objectives:-** The learning objectives of this course is to understand the role/functions of a Modern Government and issues relating to Public Revenue, Expenditure, Debt Management, Budget preparation and centre state financial relations in India.

**Module 1: Introduction:** Role of State in Economic Activities –Allocation, Distribution and Stabilisation Functions, Changing Role of State in a Mixed Economy. Classical, Keynesian and Modern Approach to Public Finance-Functional Finance, Market Failure,

**Module 2: Public Choice:** Public choice – Private and Public Mechanism of Allocating Resources, Theory of Social Goods-Samuelson-Private and Merit Goods.

**Module 3: Public Policy:** Stabilisation policy – Keynesian Case for 'Stabilisation policy. Public Debt- Principles of Public Debt Burden of Public Debt Management and Repayment of Debt, Budget-Balanced and Unbalanced Budget, Zero-Base Budgeting, Performance Budgeting, Objectives & Importance of Fiscal Policy, Deficit Finance-Concept & Importance.

**Module 4: Public Expenditure:** Theories of Public Expenditure, Wagner's Law of Increasing State Activities- Peacock Wisemans Hypothesis, Principle of Maximum Social advantage – Growth and Pattern of Public Expenditure in India, Effects of Public Expenditure

**Module 5: Taxation:** Approaches to Taxation – Benefit Approach, Ability to Pay Approach and Neutrality approach – Elasticity and Buoyancy of Taxation – Incidence, Shifting, Effects and Burden of Taxation-Types and Classification of Taxes and VAT, GST, Direct Tax Code. Digitalisation and Taxation

**Module 6:Fiscal Federalism-**Financial Administration and Financial Control in India, Fiscal Federalism- Sarkaria Commission Report and Current Finance Commission, Digitalisation and Public Financial Management System.

**Course Outcome:** After the completion of this course students will have an overall perspective of Public Policy/development programmes aimed at Public Welfare and will be able to suggest suitable Policy measures.

### **BASIC READING LIST**

1. Atkinson, A B and J.E Siglitz (1980), Lecturers on Public Economics, Tata McGraw Hill, New York.
2. Auerbach, A J and M. Feldson (Eds.) (1985), Handbook of Public Economics, Vol. I, North Holland, Amsterdam.
3. Buchanan, J M (1970), The Public Finances, Richard D Irwin, Homewood.
4. Goode, R (1986), Government Finance in Developing Countries, Tata McGraw Hill, New Delhi.
5. Houghton, J M (1970) The Public Finance: Selected Readings, Penguin, Harmondsworth.
6. Jha, R (1998), Modern Public Economics, Routledge, London.
7. Menutt, P (1996), The Economics of Public Choice, Edward Elgar, U.K.
8. Musgrave, R A (1959), The Theory of Public Finance, McGraw Hill, Kogakusha, Tokyo.
9. Musgrave, R A and P.B. Musgrave (1976), Public Finance in Theory and Practice, McGraw Hill, Kogakusha, Tokyo.
10. Shoup, C S (1970), Public Finance, Aldine, Chicago.
11. Shome, P (Ed.) (1985), Tax Policy: Handbook, Tax Division, Fiscal Affairs Department, International Monetary Fund, Washington D.C.
12. Dalton, H., Public Finance
13. Jha, R., Modern Public Economics, Routledge, London, 1998

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14. Hicks, U., Public Finance
15. Pigou, A.C., Public Finance
16. Taylor, P.E., The Economics of Public Finance
17. Report of the Chelliah Committee
18. Report of the Kelkar Committee
19. Finance Commission Reports.
20. CMIE Reports
21. Gupta, Sanjeev, King, Michael, Shah Alpa & Verbier Genevieve, (2017): Digital Revolution in Public Finance. IMF Publications, Washington DC, USA.

**M. A. ECONOMICS**  
**SEMESTER – III**

**CC- 13: International Economics**

**Course Objectives:-** The course has been designed with the objective to provide an understanding of broad Principles of International Trade and Trade Policy.

**Module 1: Theory of International Trade:** Comparative Cost Theory of International Trade, Modification and Refinements of Heckscher – Ohlin Theory of Trade, Theorem of Factor Price Equalization., Factor Reversal Theorem-Linder's Theory, Posner's Technological Gap Theory, Kravis Theory of Availability, The Rybczynski Theorem – Concept and Policy Implications of Immiserizing Growth.

**Module 2: Measurement of Gains:** Measurement of Gains from Trade and their Distribution; Concepts of Terms of Trade., The Theory of Interventions,- Concept and Economic Effects of Tariffs and Quotas on National Income, Output, Employment, Terms of Trade and Non –Tariffs Barriers, Secular Stagnation Theory or Prebisch - Singer Hypothesis.

**Module 3: Balance of Payments:** Equilibrium and Disequilibrium in the Balance of Payments- Elasticity Approach, Absorption Approach and Monetary Approach to the Theory of Balance of Payments Adjustment, Foreign Trade Multiplier, Trade Deficits, EXIM Policy

**Module 4: Exchange Rate Determination:** Exchange Rates; Types and Determination of Exchange Rates in Short and Long run, Hybrid Exchange Rate Policy, Managed Flexibility of Exchange Rate Policy and Exchange Rate Policy in Practice.

**Module 5: Regional blocks & International Institutions:** Static & Dynamic Effects of Custom Union Functions of WTO (TRIPS, TRIMS), UNCTAD, IMF, World Bank and SAARC .Trade Reforms in India: Recent Changes in the Direction and Composition of Trade and their Implications; Changing Global Scenario and Trade Barriers.

**Course Outcomes:-** After the completion of this course Students will be able to critically evaluate Trade Theories and Practices adopted by Nations and their Welfare implications.

**BASIC READING LIST**

1. Bhagwati, J. (Ed.) (1981), International Trade. Selected Readings, Cambridge, University Press, Massachusetts.

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2. Carbough, R.J. (1999), International Economics, International Thompson Publishing New York.
3. Chacholiades, M. (1990), International Trade: Theory and Policy, McGraw Hill, Kogakusha, Japan.
4. Dana, M.S. (2000), International Economics: Study, Guide and Work Book, (5<sup>th</sup> Edition). Routledge Publishers, London.
5. Dunn, R.M. and J.H. Mutti (2000), International Economics, Routledge, London.
- Kindle Berger, C.P. (1973), International Economics, R.D. Irwin, Homewood.
6. King, P.G. (1995), International Economics and International Economic Policy: A Reader, McGraw Hill International, and Singapore.
7. Krugman, P.R. and M. Obstfeld (1994), International Economics: Theory and Policy, Glenview, Foresman.
8. Sodersten, B. International Economics.

**M. A. ECONOMICS**  
**SEMESTER - III**

**CC- 14: Research Methodology**

**Course Objective:** To equip students with basic tools and concept of Research Methodology and Computer Applications used in area of Economics.

**Module-1: Introduction:** Aim, Objectives, and Scope of Research in Economics, Types of Research-Scientific Research, Methodology of Economic Research- Explanatory, Descriptive, Analytical Quantitative and Qualitative Approaches, Historical, Experimental & Ex-Post Fact Research - Importance of Review of Literature in Research, Steps involved in Scientific Research

**Module-2: Sampling and Data Collection:** Collection of Primary and Secondary Data, Need of Sampling, Stratified Sampling, Multi-Stage Sampling, Systematic Sampling, Cluster Sampling, Size of Sampling, Uses of Sampling, Sampling and Non-Sampling Errors- Observation Methods, Participant and Non-Participant Methods- Case Study, Questionnaire and Interview Schedule, Projective Indirect Methods, Focus Group Study (FGD), Rapid Appraisal Survey (RAS).

**Module-3: Research Problems:** Steps Involved, Aims and Objectives, Identification of Research Problems, Theoretical Frame and Statement of the Problem, Review of Research. Formation of Objectives and Hypothesis, Types of Hypothesis, Types of Errors, Defining the Concepts in Research Design, Hypothesis Testing, Report Writing- Steps and Process, APA Style of Writing References.

**Module-4: Computer & Its Application:** MS-Word MS-Excel, Basic Idea of SPSS.

**Course Outcomes:** By the end of the course students will be able to develop scientific approach in analysing and deriving conclusions from empirical works on socio-economic issues with tools of Research Methodology and Computer Applications.

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## **BASIC READING LIST**

1. C. R. Kohari, Research Methodology, Wiahwa Praksh.
  2. A.N. Sadhu and Amarjit Singh, Reasearch Methodology in Social Research, Himalaya Publishing House.
  3. Wilkinson and Bhandarkar, Methodology and Techniques of Social Sciences, Himalaya Publishing House.
  4. O. R. Krishna Swamy and Ranganatham, Methodology of Research in Social Sciences, Himalaya Publishing House.
  5. Ram Ahuja, Research Methods, Rawat Publications.
  6. C.S.O. Guide to Official Statistics.
  7. Ghosh, B.N., Scientific Methods and Social Research.
  8. Tandon, B.C., Research Methodology in Social Scien
  9. Subramanian, N., Introduction to computers.
  10. Young, P.V., Scientific Social Surveys and Research (Prentice-Hall).
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## **M. A. ECONOMICS**

### **SEMESTER - IV**

#### **EC-1 (Group-A): Agricultural Economics**

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**Course Objective:** The objective is to impart wide knowledge and analytical skills to the students in the field of Agricultural Economics and enable them to comprehend contemporary Agriculture practices in a complex and changing scenario.

**Module 1: Agriculture and Economic Development:** Nature and Scope of Agricultural and Rural Economics; Causes of Backwardness of Agriculture and Efforts and Approaches towards the Remedies, Traditional Agriculture and its Modernization; Role of Agriculture in Economic Development; Interdependence between Agriculture and Industry, Agricultural Development, Agriculture and Allied Activities, Cropping Pattern and Factors Affecting it.

**Module 2: Agricultural Production and Productivity:** Agricultural Production – Resource Use and Efficiency; Production Function Analyses in Agriculture; Factor Combination and Resource Substitution, Farm Size and Productivity Relationship, Technical change, labour Absorption in Agriculture, Recent Trends in Agricultural Growth in India; Inter-Regional Variations in Growth of Output and Productivity, Sustainable agriculture and Food Security, Rainbow Revolution, Secondary Agriculture.

**Module 3: Agriculture Finance:** Rural Saving and Capital Formation; Role of Credit and Rural Credit; Organized and Unorganized Capital Market (Institutional and Non-institutional); Characteristics and Sources of Rural Credit; Reorganization of Rural Credit Co-operative Societies, Commercial Banks, Regional Rural Banks, Micro Finance; Role of NABARD.

**Module 4: Agricultural Marketing and Prices:** Agricultural Prices and Marketing, Behaviour Agricultural Prices, Cobweb Model and Income Stability; Agricultural Markets; Regulated

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Markets; Marketed and Marketable surplus; Marketing Channels, Price Spread Behavior of Agricultural Prices - Terms of Trade between Agricultural and Non-Agricultural Prices; Need for State Intervention; Objectives of Agricultural Price Policy, Strategy of Agricultural Development.

**Course Outcome:** By the completion of this course students will be able to comprehend/analyse complex economic issues related to Agricultural Economics and suggest suitable Policy measures to strengthen Agricultural Sector.

### ***BASIC READINGS LIST***

1. Bhaduri, A. (1984) The Economic Structure of Backward Agriculture, Macmillan, Delhi.
2. Bilgrami, S.A.R. (1996), Agricultural Economics, Himalaya Publishing House, Delhi
3. Dantwala M.L. Et al, (1991) Indian Agricultural Development since Independence, Oxford & IBH New Delhi.
4. Gulati, A. and t. Kelly (1999), Trade Liberalisation and Indian Agriculture, Oxford University Press, New Delhi.
5. Joshi. P.C. (1975), Land Reforms in India: Trends and Prospects, Allied Publishers, Bombay.
6. Kahlon, A.S. and Tyagi D S (1983), Agriculture Price Policy in India, Allied Publishers, New Delhi.
7. Rao C.H. Hanmantha (1975): Agricultural Growth, Rural Poverty and Environmental Degradation in India, Oxford University Press, New Delhi.
8. Rudra, A (1982), Indian Agricultural Economics, Myths and Reality, Allied Publishers, New Delhi.
9. Saini, G.R. (1979), Farm Size, Resource Use Efficiency and Income Distribution, Allied Publishers New Delhi.
10. Upender, M. (1990), Marketable and Marketed Surplus in Agriculture, Mittal Publications, New Delhi.

### ***M. A. ECONOMICS***

### ***SEMESTER - IV***

### ***EC- I (Group- B): Industrial Economics-I***

**Course Objective:** This course provides basic knowledge on key theoretical concepts/ issues related to Market Structure and Firms' behaviour, Productivity and Efficiency involved in Industrial Development of India.

**Module-1: Introduction:** History and Scope of Industrial Economics, Industrial Efficiency-Concept & Measurement, Meaning and Classification of Industries. Use-based, Resource Based and ASI-Two and Three Digit Classification, The Role of Industry in Economic Development, Chennery Theory of Industry.

**Module-2: Theories of Growth of Firm:** Theories: Downie, Penrose and Marries and Industrial Location Theories: Weber, Sargent Florence, and Losch.-Factors Affecting Industrial Location.

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**Module -3 Market Structure and Market Performance:** Concepts & Organization of a Firm. Market Structure, Sellers Concentration, Product Differentiation; Entry Conditions; Economics of Scale.

**Module-4 Market Performances:** Profitability & Innovation, Constraints on Growth Productivity, Efficiency and Capacity Utilization-Concept and Measurement- Cost-benefit Analysis- NPV (Net Present Value )and IRR(Internal Rate of Return) Criteria.

**Course Outcome:** After the completion of this course students will be able to analyse Firms' performance/constraints in Industrial sector and suggest suitable Policy Measures for overall development of Industrial Sector.

### **BASIC READING LIST**

1. Ahuliwalia, I.J. (1985) Industrial Growth in India, Oxford University Press, New Delhi.
2. Barthwal, R.R. (1985), Industrial Economics, Wiley Eastern Ltd., New Delhi.
3. Chernuliam, F. (1994), Industrial Economics: Indian Perspective (3rd Edition), Himalaya Publishing House, Mumbai.
4. Desai, B. (1999), Industrial Economy in India (3<sup>rd</sup> Edition,) Himalaya Publishing House, Mumbai.
5. Divine, P.J. and R.M. Jones Et. Al (1976), An Introduction to Industrial Economics, George Allen and Unwin Ltd., London.
6. Government of India, Economic Survey (Annual)
7. Hay, D. and D.J.Morris (1979), Industrial Economics: theory and evidence, Oxford University Press, New Delhi.
8. Kuchhal, S.C. (1980), Industrial Economy of India (5<sup>th</sup> Edition), Chaitanya Publishing House, Allahabad.
9. Reserve Bank of India, Report on currency and Finance (Annual).
10. Sing, A and A.N Sadhu (1988), Industrial Economics, Himalaya Publishing House, Mumbai.

### **M. A. ECONOMICS**

### **SEMESTER - IV**

### **EC- 1 (Group- C): Basic Econometrics**

**Course Objectives:-** To equip students with the theoretical knowledge of basic Econometrics tools which they can use for formulating and developing Econometric models to be applied on real Economic situations.

**Module - 1.** Test of Significance: Large & Small Sample Tests.

**Module -2:** Theoretical Frequency Distributions: Binomial, Poisson and Normal Distributions; their Means and variances, use of Normal curve table.

**Module -3:** (a) Linear Regression Model: Assumptions of Least Square Estimator, Properties of Ordinary Least Square (OLS). (b) Logistic Regression. (c) The Multiple Regression- (Matrix approach).

**Module 4:** Problems of Single Equation Model: (a) Autocorrelation - meaning, Detection (Durbin - Watson Test, The Von-Neumann Ratio Test), Causes and consequences of Autocorrelation, Solution of Autocorrelation. (b) Multicollinearity: Meaning, Detection and Consequences of Multicollinearity, Efficient Estimation under Multi-collinearity.(c)

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Heteroscedasticity, Meaning, Causes and Consequences of Heteroscedasticity, Tests for Heteroscedasticity - The Spearman Rank - Correlation Test, Goldfeld Quandt Test, The Park Test, Glejser Test, Remedies for Heteroscedasticity.

**Module 5:** (a) Dummy variables - Meaning and uses of Dummy Variables, Features of Dummy Variables. (b) Lagged Variables, Uses of Lagged Variables, Estimation of Distributed Lag Model by assigning arbitrary values to Weights of Lagged Variables.

**Module 6:** Analysis of Variance - One-way and Two-way.

**Module 7:** Simultaneous Equations Model - Structural, Reduced and Final Forms, Exogenous and Endogenous Variables. Identification Problems, Methods of Identification, Just and over Identification.

**NOTE:** Use of Electronic Calculator will be permitted.

**Course Outcome:** After the completion of this course students will be able to perform Econometric analysis related to their Project work and future Research & Development.

### **BASIC READING LIST**

1. Gujrati, Damodar: Basic Econometrics.
2. Koutsoyiannis, A., Theory of Econometrics.
3. Klein, L.R., An Introduction to Econometrics.
4. Johnson, J., Econometric Methods (McGraw Hill).
5. Pindyck & Rubinfeld, Econometric Models and Economic Forecasts.
6. Gupta, S.C., Fundamental of Statistics.
7. Anderson, Sweeney, Williams: Statistics for Business and Economics.
8. Madnani, G.M.K., Introduction to Econometrics.
9. Shyamala, Kaur & Pragasam: A Test Book on Econometrics.
10. Dhanasekaran, K.: Econometrics.
11. Singh, Parasar & Singh: Econometrics and Mathematical Economics.
12. Nachane, D.M., Econometrics: Theoretical Foundations and Empirical Perspective (OUP)
13. Maddala, G.S., Econometrics (MacMillan).
14. Mehta and Kapoor: Fundamentals of Econometrics (Himalaya Publishing House).

### **M. A. ECONOMICS**

#### **SEMESTER - IV**

#### **EC-1 (Group- D): Monetary Economics & Policy**

**Course Objective:** This course enables the students to analyse Monetary Theory and Monetary/ related policies both at the National and International levels.

**Module 1: Money and the Economy** -Money Supply and Money Demand-Classical, Keynesian, Monetarist and Post-Keynesian views- Emergence of Monetarism-Monetarist-Analytical Framework-Transmission Mechanism- Liquidity Approach to Monetary Theory-Gurley-Shaw Thesis, Implications for Monetary Policy.

**Module 2: Money, Interest and Income** -Heterogeneity of Interest Rate Determination- Neo-Classical, Keynesian and IS-LM Curve Approach - Rate of interest and Investment, Income and Output- Administered Interest Rates and Market Determined Interest Rates- Interest Rates and Demand for Money - Implications for Monetary Management.

*Dr. P. M. S.*

**Module 3: Money and Prices** -Interrelationship between Money and Prices- Classical, Keynesian, Monetarist- and New Classical Approach: Demand Pull Theory of Inflation – Social Costs of Inflation- Inflationary Expectations – The Phillips Curve and Other Factors, Monetary Factors and Economic Fluctuations, Monetary Theories of Business Cycles –Keynes, Hicks, Friedman, Schumpeter and Kaldor

**Module 4: Monetary Policy** -Introduction – Goals – Targets – Indicators and Instruments – Limitations of Monetary Policy – The Time Lags in the Monetary Policy – Efficiency of Monetary Policy – Monetary Policy with Informal Financial Markets – Monetary – Fiscal Co-ordination; IS-LM Curve Approach –Significance & Implication.

**Course Outcomes:** At the completion of this course students will be able to understand Money and Monetary policy as determinants of the aggregate levels of National spending and Income, Output, Employment and Prices.

**BASIC READING LIST:**

1. Shubik Martin "The Theory of Money and Financial Institutions" (1999), Volume I and II Cambridge, the MIT Press
2. Stiglitz, Joseph E and Bruce E. Greenwald (2003), Towards a New Paradigm in Monetary Economics, Cambridge, the Cambridge University Press
3. Hajala T.N. (1998) Monetary Economics, Kanark Publishers Pvt. Limited, New Delhi
4. Suraj B. Gupta (2004) Monetary Economics; Institutions, Theory and Policy, S. Chand & Company Limited, New Delhi.
5. Keynes, J.M., The General Theory of Employment, Interest & Money.
6. Keynes, J.M., Treatise on Money, Vols.- I & II.
7. Kurihara, K.K., Introduction to Keynesian Dynamics.
8. Kurihara, K.K., Keynesian Theory of Economic Development.
9. Hansen, A.H., A Guide to Keynes.
10. Hicks, J.R., A Contribution to Theory of Trade Cycle.
11. Harris, S.E., New Economics.
12. Bauer, Stanley, The Economics of Cycle & Growth.
13. Gupta, R.D., Post Keynesian Economics.
14. Hicks, J.R., Critical Essays in Monetary Theory.
15. Frisch, H., Theories of Inflation, Cambridge University, Press.
16. Dornbusch, Fisher & Startz : Macroeconomics, Tata McGraw Hill.
17. Blanchard, Olivier, Macroeconomics, Pearson Education.
18. Haberler, Prosperity and Depression.

**M. A. ECONOMICS**

**SEMESTER - IV**

**EC- I (Group- E): Indian Public Finance**

**Course Objectives:-** The objective of this course is to acquaint the students with the recent trends in Tax structure, Public Expenditure, Budgeting, Public Debt and Centre State financial relations in the Indian context.

**Module 1 : Introduction-Nature and Scope of Public Finance – Indian Federal Finance – Historical Background ,The Government of India Act 1935 Financial and Co-operative Federalism under the Constitution – Division and Distribution of Function and Revenue Between**

*Ridwana*

Centre and State Governments, Role of Finance Commission Latest Finance Commission, Digitalisation & Public Financial Management System.

Module-2: Indian Tax System: Taxation and Economic Development – Direct Taxes and Indirect Taxes of both the Centre and the States, Recent Reforms in Direct and Indirect Taxes, Digitalisation & Taxation in India- Revolutionising Tax Design & Tax Administration.

Module-3: Budget -Meaning of Budget – Importance of Revenue Budget and Capital Budget – Trends in Central Government Budget – Trends in State Government Budget with Special reference to Bihar, Deficit Financing in India – Revenue Deficit – Budget Deficit – Fiscal Deficit – Primary Deficit – Effects of Deficit Financing, Analysis of Latest Budgets of Government of India and Government of Bihar.

Module 4: Fiscal Federalism-Principles of Multi-Unit Finance – Fiscal Federalism in India – Vertical and Horizontal Imbalance, Assignment of Function and Sources of Revenue – Constitutional Provisions – Finance Commission and Planning Commission, Devolution of Resources and Grants, Resource Transfer from Union to States – Criteria for Transfer of Resources, Centre – State Financial Relations in India, Problems of States' Resources and Indebtedness, Transfer of Resources from Union and States to Local Bodies.

**Course Outcome:** After the completion of this course students will be able to analyse modern trends in Budgeting, Public expenditure, Tax Structure, Public Debt in Indian context and suggest suitable Fiscal Policy measures.

### ***BASIC READING LIST***

1. David N. Hyuan (2005), Public Finance: A Contemporary Application of Theory, Thousom South Western, Ohio, USA
2. Musgrave.R.A. (1959), The Theory of Public Finance, Mc Graw Hill, Kogakhusa, Tokio.
3. Anderson, John.E (2003)Public Finance: Principles and Policy, Houghton Mifflin Company, Boston.
4. Gupta, Sanjeev,King,Michael,Shah Alpa& Verbier Genevieve,(2017).Digital Revolution in Public Finance.IMF Publications, Washinton DC,USA.

***M. A. ECONOMICS***

***SEMESTER – IV***

***EC- I (Group- F): Urban Economics***

**Course Objective: To analyse the theoretical concept of Urban Economics related to the development of Cities in the right context.**

*Ridima*

**Module-1: The Process of Urbanization.** Definition of Urban Area, Causes of Urbanization, Theories of Urban Structure and Urban Growth- Concentric Zone Theory, Central Place Theory, Urban Base Theory, Features of Urbanization in Developing Countries.

**Module-2: Problems of Urbanization:** Urban Transportation, Slums, Housing, Land Use and Urban Renewal, Urban Water-Supply and Public Health, Urban Financial Problems.

**Module-3: Urbanization in India:** 21st Century Urbanization in India – Growth of Urban Population, Urbanization without Labour Absorption in India.

**Module-4: Urban Development Policy in India :** Policies and Programmes under the Plans, Integrated Development of Small and Medium Towns, Urban Development and Housing Policy, Measure to Control Urban Growth-Decentralization of Industry, Growth Centres – Satellite towns.

**Course outcomes:** By the end of the course students will have an improved understanding of the economy of a City and ability to suggest suitable Public Policies for Sustainable Development of Cities and Metropolitans.

#### ***BASIC READING LIST***

1. Briance A and Ravinder Singh, (edited) (1995) Housing the Urban Poor, Policy and Practice in Developing Countries, (Sage Publications, New Delhi).
2. Fred Durr, The Urban Economy (London, Index Educational Publishers) 1971.
3. Harris Tondon (1973), Introduction to Urban Economic Analysis and Policy (New York)
4. Lolyd Rdown and Assocaites (1969). Planning Urban Growth and Regional Development (London: M. T. Press)
5. Mark Garrett, (1996) Transportation Planning (Sage Publications, New Delhi)

***M. A. ECONOMICS  
SEMESTER - IV***

***EC- I (Group- G): Financial Economics-I***

**Course Objective:** To acquire an advanced understanding of functioning of Financial market and role of Regulators.

*Ripra*

**Module -I: The Financial System and its significance for Economic Development** – The Structure and Functions of the Financial System in India- All India Development Financial Institutions, Investment Institutions, Specialized Financial Institutions and State level Financial Institutions. Non -Bank Financial Companies.

**Module-II: Commercial Banking:** Banking Structure in India-Context, Need and Objectives, Financial Sector Reforms -Narasimham Committee Report, Financial Sector Reforms with reference to Stock Markets.

**Module-III: Money Market:** Organized Sector of the Money Market and their Sub-Markets- Call Money Market, Treasury Bill Market, The Repo Market, Commercial Paper market and Money Market, Mutual Funds and their Instruments, Money Market Reforms in India.

**Module- IV: Capital Market:** Structure of Capital market- Primary and Secondary markets- New Issues and Secondary Issues Markets, Securities-Private and Gilt Edged Securities- Pre and Post Reform Capital Market in India.

**Course Outcome:** By the end of this course students will be able to evaluate the functioning of Financial Market as seen from the point of view of Financial Regulators and Policy Makers.

### **BASIC READINGS LIST**

1. Bhole, L.M. (1999), Financial Institutions and Markets, Tata McGraw Hill Company Ltd., New Delhi.
2. Bhole, L.M. (2000), Indian Financial System, Chugh Publications, Allahabad.
3. Edminster, R.O. (1986), Financial Institutions, Markets and Management, McGraw Hill, New York.
4. Goldsmith, R.W. (1969), Financial Structure and Development, Yale, London.
5. Hanson, J.A. and S.Kathuria (Eds.) (1999), India: A Financial Sector for the Twenty-first Century, Oxford University Press, New Delhi.
6. Harker, P.T. and S.A.Zenios (2000) (Ed.), Performance of Financial Institutions, Cambridge University Press, Cambridge.
7. Johnson, H.J. (1996) Financial Institutions and Markets, Tata McGraw Hill, New Delhi.
8. Khan, M.Y. (1996) Indian Financial System, Tata Mc Graw Hill, New Delhi.
9. Machiraju, M.R. (1999) Indian Financial Systems, Vikas Publishing House, New Delhi.
10. Ohlson, J.A. (1987), The Theory of Financial Markets and Institutions, North Holland, Amsterdam.
11. Prasad, K.N. (2001) Development of India's Financial System, Sarup & Sons, New Delhi.
12. Robinson, R.I. and D.Wightman (1981), Financial Markets, McGraw Hill, London.
13. Smith, P.F. (1978), Money and Financial Intermediation: The Theory and Structure of Financial System, Prentice Hall, and Englewood-Cliff, New Jersey.
14. Chandra, P. (1997), Financial Markets, (4th Edition), Tata McGraw Hill, New Delhi.
15. Machiraju, H.R. (1997), International Financial Markets in India, Wheeler Publishing, Allahabad.
16. Rangarajan, C. (1999), Indian Economics: Essays on Money and Finance, UBS Publication, New Delhi.

*R. D. Sharma*

16. Fisher, G.E. and R.J. Jordan (1992), *Security Analysis and Portfolio Management*, Eastern Economy Edition, New Delhi.

**M. A. ECONOMICS**

**SEMESTER - IV**

**EC- I (Group- H): Environmental Economics**

**Course Objective:** The main aim of this course is to identify and analyse the key issues confronting Economic growth in Environmental and Ecological perspective.

**Module 1: Introduction:** Introduction to Environmental Economics: Historical Perspective (Classical, Neo-classical and Modern). Interface between Economy, Environment and Development, Environment versus Development Controversy, Distinction between Environmental Economics & Natural Economics & Natural Resources Economics.

**Module 2: Economics of Environmental Degradation:** Pollution as Market Failure, Pareto Optimality & Market Failure, Pigovian Solutions; Buchanan's theory, Coase Theorem; Detrimental Externality and Non-convexities in Production; Property Rights, Collective Action. Theories of Optimal use of Exhaustible and Renewable Resources Kuznet's Theory of Environment, Theory of Environmental Externalities.

**Module 3: Economic Incentives for Environmental Protection;** Pollution Taxes, Subsidies, Government Spending, Tradable Permits, Refundable Deposits, Recycling. Health Dimension of Environment & Development, Environmental Education & Sustainable Development.

**Module 4: Valuing Environment Goods and Services:** Need for Valuation, The Concept of Value, Theory of Non-Market Valuation. Methods of Environmental Valuation; Direct and Indirect Methods of Environmental Valuation; Revealed Preference versus Stated Preference, Contingent Valuation, Travel Cost, Hedonic Pricing.

**Module 5: Environmental Problems and Policy Issues:** State of India's Environment - Air, Water and Soil Pollution, Global Warming Acid Rain, Greenhouse Effects, Natural Resource Depletion, Deforestation, From Problem to Crisis; Trans Boundary Pollution Problem, Global Warming and Climate Change. Evolution of Environmental Policy, Constitutional provisions, Institutions and Legislations, Macro Economic Policy and Environment, Natural Resources Accounting, Green GDP, Need for Environmental Accounting, Environmental Laws, Environmental Management, Government Programme & Policies.

**Course Outcomes:** By the end of this course students will be able to demonstrate and understand the criteria used to regulate Environmental Externalities meeting the challenges of Climate Change and suggest suitable policy measures.

**BASIC READING LIST**

*Signature*



1. Baumol, W.J. and W.E. Oates (1988), *The Theory of Environmental Policy*, Second edition, Cambridge University Press, Cambridge, 299 pp.
2. Bhattacharya, R.N. (Edited) (2001), *Environmental Economics: An Indian Perspective*, Oxford University Press, New Delhi, 291 pp.
3. Common, M. (1988), *Environmental and Resource Economics: An Introduction*, Longman, Group UK Limited London, 319 pp.
4. Conrad, J.M. (1999), *Resource Economics*, Cambridge University Press, New York, 214 pp.
5. Conrad, J.M. and C.W. Clark (1987), *Natural Resource Economics: Notes and Problems*, Cambridge University Press, New York, 231 pp.
6. Dasgupta, P. and Heal, G.M. *Economics Theory and Exhaustible Resources*. Cambridge: Cambridge University Press, 1979.
7. Freeman III, A. M., R. M. Haveman and A. V. Kneese (1973), *The Economics of Environmental Policy*, John Wiley & Sons, New York, 184 pp.
8. Hanley, N., J. Shogren, and B. White (1997), *Environmental Economics in Theory and Practice*, Macmillan Press, 464 pp.
9. Opschoor, J. B. (2005), "Environmental management and market mechanism: An Institutional approach", In N. C. Sahu and A.K. Choudhury (Ed.), *Dimension of Environmental and Ecological Economics*, University Press (India) Limited., Hyderabad, PP. 96-111.
10. Parikh, K. (1995), 'Sustainable development and the role of tax policy', *Asian Development Review*, Vol. 13, pp. 127-166.
11. Pearce, D. A. Mrkandya and E.B. Barbier (1989), *Blueprint for a Green Economy*, Earthscan, London, 192 pp.
12. Pearce, D.W., E. Barbier and A. Markandya (1990), *Sustainable Development: Economics and Environment in the Third World*, Edward Elgar, Aldershot.
13. Pearce, D.W., and R.K. Turner (1990), *Economics of Natural Resources and the Environment*, Harvester Wheatsheaf, London, 378 pp.
14. Perman, R., Y. Ma, J. McGilvay, and M.S. Common (1999), *Natural Resources and Environmental Economics*, 2nd Edition, Longmans, 564 pp.
15. Sahu, N.C. and B. Nayak (1994), 'Niche diversification in Environmental/ Ecological Economics', *Ecological Economics*, Vol. 11., pp. 9-11.
16. Sankar, U. (Ed.) (2001), *Environmental Economics*, Oxford University Press, New Delhi, 469 pp.
17. Tietenberg, T. (1996), *Environmental and Natural Resource Economics*, Harper Collins, College Publishers, New York, Fourth Edition, 614 pp.
18. World Bank (1992), *World Development Report: Development and the Environment*, Oxford University Press, New York, 308 pp.

### M. A. ECONOMICS

### SEMESTER - IV

### EC- 2 (Group- A): Indian Banking & Financial Institutions

**Course Objective:** To provide advanced knowledge of functioning of Financial Market in Indian context with recent Banking and Financial reforms.

*Rijom*

- Module 1.** Concept, Working and Role of Financial Market
- Module 2.** Structure of the Financial Market: (a) Financial Dualism (b). Money Market: Meaning, Constituents of Organized Money Market, Features of Indian Money market, Treasury bill Market & Commercial Bill Market in India. (c). Capital Market :- Features, Organization, Management & Membership of Stock. Exchange, Listing, Trade & Settlement System, SEBI & Capital Market.
- Module 3:** Financial Intermediaries: (a) Process of Intermediation (b) Commercial Banks : Role, BASEL I, II, III (Brief analysis) (c) Non Banking Financial Intermediaries. : Working & functions.
- Module 4:** Recent Development in Banking System in India. : (a) Social Banking (b) Innovative Banking (c) Merchant Banking (d) Venture Capital
- Module 5:** Development Banking in India. (a) Concept and role of Development Banks in India (b) IDBI, SIDBI, NABARD
- Module 6:** Monetary and Credit Policy of R.B.I (a) Promotional role of R.B.I. (b) Regulatory role of R.B.I
- Module 7:** Recent Banking and Financial Reforms in India : (a) Main Recommendations of Sukhomaya Chakarvarti Committee Report (b) Main Recommendations of Narsimham Committee Report. Financial Inclusion -Concept, Needs and Efforts by the State like Jan Dhan Yojana, Mudra Yojana, Cashless Economy: Needs, Constraints and efforts so far.
- Course Outcome:** By the end of this course students will be able to critically analyse functioning of Indian Money and Capital Market and suggest suitable Monetary and Credit Policy Measures.

#### **BASIC READING LIST**

1. R.B.I Functions and Working
2. Dutt, Rudder and Sundharam, K.P.M Indian Economy, S. Chand and Co.
3. Basu, C.R., Central Banking in Planned Economy
4. Narshimham Committee Report
5. Chakarvarti Committee Report
6. Repot on Currency and Finance (R.B.I Annual)
7. Sen, S.N., Central Banking in under Developed countries
8. R.B.I. Bulletin.
9. L.M Bhole - 'Financial institutions & Markets (Tata McGraw Hill).
10. M.Y Khan, 'Financial institution & Markets (Tata McGraw Hill).
11. Mishkin FS & Fakens SG - Financial Market & "Institutions" (Pearson Education).

**M. A. ECONOMICS**  
**SEMESTER - IV**  
**EC- 2 (Group- B): Industrial Economics-II**

Rishma

**Course Objective:** The course aims to provide the students an overview of the Historic evolution and recent developments in Indian Industrial Sector.

**Module -1 Indian Industrial Growth & Pattern:** Industrial Pattern Under Five Year Plan; Industrial Policy 1991: Role of Public and Private Sector, Recent Trends in Industrial Growth Small Scale Enterprises; Problems of SSIs and Sickness. Rural Industrialization and its need in India .

**Module -2 Liberalization & Privatization in India-** MNCs and Transfer of Technology- Industrial Economic Concentration and Remedial Measures, Issues in Industrial Proliferation and Environmental Preservation.

**Module -3 Industrial Finance:** Industrial Finance: Owned, External and other Components of Funds; Role, Nature, Volume and Types of Institutional Finance – State Level Financial Institutions and Commercial Banks.

**Module -4 Financial Soundness Assessment of Industrial sector:** Financial Statement – Balance Sheet- Assets and Liabilities, Profit & Loss Account, Ratio Analysis.

**Course Outcome:** By the end of this course students will be able to critically analyse the role of Indian Public Sector in Industrialization of the country and suggest suitable Policy Measures.

#### ***BASIC READING LIST***

1. Ahuliwalia, I.J. (1985) Industrial Growth in India, Oxford University Press, New Delhi.
2. Barthwal, R.R. (1985), Industrial Economics, Wiley Eastern Ltd., New Delhi.
3. Chernuliam, F. (1994), Industrial Economics: Indian Perspective (3RD Edition), Himalaya Publishing House, Mumbai.
4. Desai, B. (1999), Industrial Economy in India (3rd Edition,) Himalaya Publishing House, Mumbai.
5. Divine, P.J. and R.M. Jones Et. Al (1976), An Introduction to Industrial Economics, George Allen and Unwin Ltd., London.
6. Government of India, Economic Survey (Annual)
7. Hay, D. and D.J.Morris (1979), Industrial Economics: theory and evidence, Oxford University Press, New Delhi.
8. Kuchhal, S.C. (1980), Industrial Economy of India (5th Edition), Chaitanya Publishing House, Allahabad.
9. Reserve Bank of India, Report on currency and Finance (Annual)
10. Singh, A and A. N. Sadhu (1988), Industrial Economics, Himalaya Publishing House, Mumbai.

**M. A. ECONOMICS  
SEMESTER - IV**

*Q. W. M.*

*EC- 2 (Group- C): Demography*

**Course objective:** The main objective of the course is to discuss Population Studies and Population Growth trends in Bihar and India.

**Module 1: Introduction:** Meaning, Scope and Importance of Demography; Sources of Demographic Data; Population and Economic Development, Demographic Dividend

**Module 2. Theories of population** —Malthus, Optimum Theory of Population; Theory of Demographic Transition; Views of Meadows and Enke on Population.

**Module 3: Concept and Measurement of Fertility and Mortality:** (a) 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. (b) Mortality — Death Rates, Crude and Age-specific; Mortality at Birth and Infant Mortality Rate; Life table- Construction and Uses; Concepts of Stationary and Stable Population Human Development Index

**Module 4:** Methods of Population Projection.

**Module 5: Migration and Urbanisation:** Concept and Types: Temporary, Internal and International; International Migration: Its Effect on Population Growth and Pattern; Factors affecting Migration; Theories of Migration related to Internal Migration; Urbanization: Growth and Distribution of Rural-Urban Population in Developed and Developing Countries.

**Module 6: Demographic Data Base in India:** Changing Characteristics of Population in India; Population Growth Rates, Trends and Regional Variations in Sex Ratio; Age Structure of Population, Infant and Child Mortality Rates; Maternal Mortality Rates; Life Expectancy; on the basis of Census of India & Latest Round of National Surveys conducted in India.

**Module 7: Population and Development with reference to India and Bihar:** Population, Economy and Environment Linkages-Population and Human Development Issues, Human Development Index. Demographic Dividend- its role in India and Bihar.

**Module 8: 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; The New Population Policy; Tasks before the National Population Commission.

**Course Outcome:** Upon successful completion of the course students will have knowledge and skills to explain Demographic changes in India and suggest suitable Demographic Policy Measures.

**BASIC READING LIST**

1. Malthus, T.R.; An Essay on the Principle of Population.
2. Zacharia, E. & Sinha, V.C.; Elements of Demography
3. Agarwal, S.N.; India's Population Problem, Tata Mac Graw Hill, Mumbai.
4. Bose, A.; India's Basic Demographic Statistics, B.R. Publishing Corporation, New Delhi, 1996.

*D. J. J. J.*

5. Chandrasekhar, S.; Infant Mortality, Population Growth and Family Planning in India, Routledge, 2011.
6. Chandra, Gyan; Population in Perspective
7. Dutt, R., Sundaram, K.P.M.; Indian Economy (Latest Edition)
8. Human Development Report(s): UNDP
9. *India Human Development Report*: Institute of Applied Manpower Research. Planning Commission, Government of India
10. Economic Survey: Ministry of Finance, Government of India
11. Uma Kapila (Edited), Indian Economy since Independence, Academic Foundation, New Delhi

**M. A. ECONOMICS**  
**SEMESTER - IV**

**EC- 2 (Group- D): Agri- Business Management**

**Course Objective:** The primary objective of this course is to develop the Management Competencies required by people in the field of Agriculture to establish and support profitable Agri-Business in a competitive global business environment.

**Module 1: Agri - Business:** meaning, Definition, Structure of Agri - Business(Input Sector, Farm sector and Product Sector)- Importance of Agri Business in Indian Economy

**Module 2: Agribusiness Management:** The Distinctive Features, The Importance of Good Management, The Definition of Management Economics of Agri - Business Management

**Module 3: Management Functions:** Planning, Characteristics of Sound Plan-Steps in Planning & Organising-Meaning-Purpose-Staffing- Definition, Staffing Process, Directing-Motivation-Ordering-Leading-Supervision-Communication and Control-Meaning and Definitions.

**Module 4: Capital-Meaning-Working Capital-Gross Working Capital-Net Working Capital-Permanent Working Capital-Temporary Working Capital-Balance Sheet Working Capital-Cash Working Capital.**

**Module 5: Financial Management-Importance of Financial Statements-Balance Sheet-Profit and Loss statements, Analysis of Financial Statements-Liquidity Ratios-Leverage Ratios-Coverage Ratios-Turnover Ratios-Profitability ratios.**

**Module 6: Agro Based Industries-Importance, Need-Institutional Arrangements for the Promotion of Agro Based Industries, Procedures to be followed to set up Agro Based Industries, Constraints in Agro Based Industries, Remedies and Effort so far in providing enabling environment for promotion of Agri- Business in India.**

**Module 7: Project-Meaning-Definition-Project Cycle-Identification-Formulation-Appraisal-Monitoring-Evaluation, Project Evaluation and Appraisal Techniques-Undiscounted Measures-Discounted Measures-Sensitivity Analysis.**

**Course outcome:** At the end of this course students will have a commercial orientation and should be able to analyse Agri-Business situations, formulate strategies, implement plans and manage strategic change.

*Ridwan*

### **BASIC READING LIST**

1. Cramer G.L and Jensen CW, "Agricultural Economics and Agri-business" John Wiley & Sons, New York, 1979
2. Omri Railing. "Introduction to Agribusiness" PHI New Jersey
3. V.K. Srivastava, "Project Planning, Functioning, Implementation and Evaluation" Center for Management in Agriculture, IIM Ahmadabad, 1983.
4. FAO, "Economic Analysis of agricultural policies" Harvard institute for International Development" FAO, 1995
5. Harsh SB, Connor IJ and Schwab, "Meaning the Farm Business" PHI, New Jersey, 1981
6. Singh, I.J, Elements of Farm Management Economics, Affiliated East-West Press Pvt. Ltd. 1977

### **M. A. ECONOMICS**

#### **SEMESTER - IV**

#### **EC- 2 (Group- E): Labour Economics**

**Course Objective:** The objective of this course is to provide theoretical tools for understanding Labour Market/Wage determination and knowledge of current Indian Labour statistics.

**Module 1. Labour Market:** Nature and Characteristics of Labour Markets in Developing Countries; Paradigms of Labour Market Analysis- Classical, Neo-Classical and Dualistic Economy; Demand for Labour in relation to Size and Pattern of Investments; Supply of Labour in relation to Growth of Labour Force, Segmented Labour Markets- Discrimination in Labour Market, Labour Flexibility, Informal Sector

**Module 2.: Theories of Wage determination-** Classical, Neo-Classical, Marginal Productivity and Modern Theories, Collective Bargaining and Wage Determination- Basic Postulates, Nature of Bargaining Process, Systems of Wage Payment, Inactive Wage Payment, Minimum Wage, Living Wage and Fair Wage; Wage Differentials and Wage Regulation; Bonus Systems and Profit Sharing; Economy to High Wages; Wage Policy; Salient Features of Trade Union Movement in India.

**Module 3. Concept:** Concept, Measurement and Policy Response, Conditions of Decent Work.

**Module 4. Introduction to Labour Statistics,** Labour Commission in India: Recommendations of NCEUS.

**Course Outcomes:** On completion of the course students should be able to apply modern Economic Principles into the analysis of Labour Market and critically evaluate/suggest Labour/ Wage Policies.

### **BASIC READING LIST**

1. Bhagoliwal, T. N., Economics of Labour and Social Welfare.
2. Datt, G. Bargaining Power, Wages and Employment: An Analysis of Agricultural Labour Market in India.
3. Government of India: Reports of the National Commission on Labour.



4. Hallen, G.C: Dynamics of Social Security.
5. Hicks, J.R: The Theory of Wages.
6. Papola, T.S. and Sharma, A.N. (Ed.): Gender and Employment in India.
7. Pnekar, S.D., Labour Welfare, Trade Unionism and Industrial Relations.
8. Sharma, A.N. and A. Kunda (Ed.): Informal Sector in India: Emerging Perspectives.
9. Giri, V.V. Labour Problems in Indian Industry.
10. Datt, Ruder, Growth, Poverty and Equity.

**M. A. ECONOMICS**

**SEMESTER - IV**

**EC- 2 (Group- F): Gender Economics**

**Course Objective:** The objective of this course is to introduce Gender perspectives in the analysis of Economic theory and Policy.

**Module-I: Introduction** Defining Gender; Debate on Women and Development (1970s and 1980s) The Origin of Gender Development Theory – Women in Development (WID), Women and Development (WAD) and Gender and Development (GAD); Critique of WID; Gender in Economics Development.

**Module -II Gender and Agrarian Structure**-Gender Aggregated Role and Responsibilities in Agriculture Sector; Gender-Segregated Agriculture Labour - Market; New Farm Technology and Its Gendered Implications with special reference to India, Displacement of Labour.

**Module-III-Gender and Industrial Structure**-Formal and Informal Manufacturing – Orientation of Industrial Production and Generation of Employment; Gender Differentiated Impact of Economic Liberalization and trade oriented growth.

**Module-IV- Gender and Economic Policy**-Poverty, Unemployment and Development; Feminization of Urban Labour Market-Concepts, Debate and Evidence from India; Committee on Status of Women in India; National Commission on Self Employed Women and Women in the Informal Sector.

**Course outcomes:** On successful completion of this course students will be able to evaluate contemporary Gender issues and suggest suitable Gender Policy.

**BASIC READING LIST**

1. Agarwal Bina, Patriarchy and and Modernizing State: An Introduction in Agarwal Bina (ed.) Structure of Patriarchy, Kali for women, New Delhi, 1988
2. Banks, Olive, Faces of Feminism: A Study of Feminism as a Social Movement, St. Martin's Press, New York, 1981
3. Bhasin and Khan, Some Questions on Feminism, Kali of Women, New Delhi, 1986.
4. Caplan, Pat (ed.) The Cultural Construction of Sexuality, Rout ledge, New York, 1987.
5. Desai Neera and Krishnaraj, Maithrehi (ed.), Women and Society in India, Ajanta Publication, New Delhi, 1987.

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**M. A. ECONOMICS**  
**SEMESTER - IV**  
**EC- 2 (Group- G): Financial Economics -II**

**Course objective:** The objective of this course is to develop advanced knowledge of Indian Financial System and Role of Regulators in Financial Market.

**Module -I: Securities Exchange Board of India:** National Stock Exchange of India: SEBI and Capital Market Development. Changing Rules of SEBI related to Primary Market, Mutual Funds and for Promoters.

**Module-II: Concept and Significance of Insurance - Types of Insurance - The Growth and Structure of LIC and GIC of India - The Role of Private Insurance in India.**

**Module-III: Mutual Funds - Organization, Types of Schemes, Growth, Structure and size of Mutual Funds in India.**

**Module-IV: Critical review of Indian financial system:** Comparative Performance of Money Market and Capital Markets in India. Concerns and Challenges for future of Financial Structure Development in India, Financial Theory of Financial Institutions.

**Course Outcome:** By the completion of this course students will be able to critically analyse functioning of different Components and Regulators in Indian Financial Market and suggest suitable Regulatory measures.

**BASIC READING LIST**

1. Bhole, L.M. (1999), Financial Institutions and Markets, Tata McGraw Hill Company Ltd., New Delhi.
2. Bhole, L.M. (2000), Indian Financial System, Chugh Publications, Allahabad.
3. Edminster, R.O. (1986), Financial Institutions, Markets and Management, McGraw Hill, New York.
4. Goldsmith, R.W. (1969), Financial Structure and Development, Yale, London.
5. Hanson, J.A. and S.Kathuria (Eds.) (1999), India: A Financial Sector for the Twenty- first Century, Oxford University Press, New Delhi.
6. Harker, P.T. and S.A.Zenios (2000) (Ed.), Performance of Financial Institutions, Cambridge University Press, Cambridge.
7. Johnson, H.J. (1996) Financial Institutions and Markets, Tata McGraw Hill, New Delhi.
8. Khan, M.Y. (1996) Indian Financial System, Tata Mc Graw Hill, New Delhi.
9. Machiraju, M.R. (1999) Indian Financial Systems, Vikas Publishing House, New Delhi.
10. Ohlson, J.A. (1987), The Theory of Financial Markets and Institutions, North Holland, Amsterdam.
11. Prasad, K.N. (2001) Development of India's Financial System, Sarup & Sons, New Delhi.
12. Robinson, R.I. and D.Wightman (1981), Financial Markets, McGraw Hill, London.

*Rivome*



13. Smith, P.F. (1978), Money and Financial Intermediation: The Theory and Structure of Financial System, Prentice Hall, and Englewood-Cliff, New Jersey.
14. Chandra, P. (1997), Financial Markets, (4th Edition), Tata McGraw Hill, New Delhi.
15. Machiraju, H.R. (1997), International Financial Markets in India, Wheeler Publishing, Allahabad.
16. Rangarajan, C. (1999), Indian Economics: Essays on Money and Finance, UBS Publication, New Delhi.
17. Fisher, G.E. and R.J. Jordan (1992), Security Analysis and Portfolio Management, Eastern Economy Edition, New Delhi.
18. Apte; International Financial Management Tata, Mc Graw Hill Publishing Company, LTD., New Delhi.

**M. A. ECONOMICS**

**SEMESTER - IV**

**EC- 2 (Group- H): Time Series Econometrics**

**Course Objective:** The aim of this course is to equip students with the techniques used to identify, estimate and conduct inferences in Time Series Econometrics models.

**Module 1: Time-Series Analysis:** Components of Time Series, Measurement of Trend by Semi-Average Method, Moving Average Method and Method of Least Squares (Linear and non-Linear Trends). Estimation of Exponential, Modified Exponential, Gompertz and Logistic Curve Relations, Measurement of Seasonal Variations: Method of Simple Average, Method of Moving Average, Link Relatives Method, Ratio to Trend Method and Ratio to Moving Average Method.

**Module 2: Time Series Regression & Serial Correlation**

**Module 3: Time Series Econometrics:** (a) Key Concepts, Stationary Stochastic Process, Non Stationary Stochastic Process, Random Walk Models (with and without drift), Unit Root Stochastic Process. (b) Transforming Non-Stationary Process: Difference Stationary and Trend Stationary Processes. (c) Concept of Integration, and (c) Spurious Regression.

**Module 4: Unit Root Test - Dickey-Fuller (DF) Test, Augmented Dickey-Fuller (ADF) Test, The Phillips - Perron (PP), Unit Root Tests, Unit Root Test Procedure.**

**Module 5: Co-integration Models - Testing for Co-integration: Engle-Granger Test, Durbin-Watson Test, Co-integration and Error Correction Mechanism (ECM).**

**Module 6: Methods of Forecasting: Properties of AR, MA & ARMA Processes. ARIMA Process (Box-Jenkins Methodology); Vector Auto-regression (VAR).**

**NOTE: Use of Electronic Calculator will be permitted.**

**Course Outcome:** After the completion of this course students will be able to apply Time Series Econometrics Models in Micro and Macro Economic analysis.

**BASIC READING LIST**

1. Gujrati, Damodar: Basic Econometrics.
2. Kaustsoyiannis, A., Theory of Econometrics.

*R. D. Sharma*

3. Klein, L.R., Introduction to Econometrics.
4. Johnson, J., Econometric Methods (McGraw Hill).
5. Pindyck & Rubinfeld, Econometric Models and Economic Forecasts.
6. Gupta, S.C., Fundamental of Statistics.
7. Anderson, Sweeney, Williams: Statistics for Business and Economics.
8. Madnani, G.M.K., Introduction to Econometrics.
9. Shyamala, Kaur & Pragasam: A Test Book on Econometrics.
10. Dhanasekaran, K.: Econometrics.
11. Singh, Parasar & Singh: Econometrics and Mathematical Economics.
12. Nachane, D.M., Econometrics: Theoretical Foundations and Empirical Perspective (OUP)
13. Maddala, G.S., Econometrics (MacMillan).
14. Mehta and Kapoor: Fundamentals of Econometrics (Himalaya Pub. House)

**M. A. ECONOMICS**  
**SEMESTER - IV**  
**EC- 2 (Group- I): Project Work**

**Course Objective:** The objective of this course is to train students to conduct independent study on any selected topic of his/her choice in the area of Economics.

**DISSERTATION FORMAT**

Dissertation: Master of Arts (M.A.) in Economics

**General Guidelines**

1. Selection of a Topic
2. Pilot Survey, if needed
3. Significance of the Study
4. Review of Literature
5. Research Gap (Optional)
6. Theoretical Framework (Option)
7. Formulation of Research Questions/ Issues
8. Research Objectives
9. Hypotheses (Optional)
10. Coverage (Universe/ Sample & period of study)
11. Data Source (Primary / Secondary)
12. Tools of Analysis (Analytical Framework)
13. Limitations of the Study
14. Chapter Outlines
15. Introductory Chapter
16. Result Chapter (s)
17. Conclusion Chapter
18. Appendices
19. Bibliography / References & Webliography

**Structure of the Report**

**Title page-1 Cover Page**

- a. Title Page

*Signature*

- b. Title of the Project
- c. Name of the Candidate
- d. Name and Designation of the Supervisor
- e. Degree for which Project is Submitted
- f. Name of the College/University
- g. Month and Year, the project is Presented
- h. Declaration of the Student & Supervisor

**1.2 Preface**

**1.3 Table of contents**

- a. List of Tables
- b. List of Figure
- c. List of Abbreviations
- d. Acknowledgment

**1.4. Abstract / Executive Summary (One page)**

**1.5 The Main Text**

- a. Introductory Chapter: ....03 to 16 mentioned above
- b. Other Chapters: Analysis, Results Interpretation
- c. Conclusion Chapter: Summary, Conclusion, Recommendations.

**1.6 End Notes (after each Chapter)**

**1.8 Bibliography or References (at the end of the Project)**

**1.9 Appendices:**

- a. Questionnaire
- b. Interview Schedule
- c. Observation Schedule (Optional)
- d. Coding Frame (Optional)
- e. Letters sent to Sample members (Optional)
- f. Any other

**Length of the Project:**

**Note:**

1. Report length 40 to 50 pages excluding Appendix and Certificates
2. Alignment : Justify
3. Font : Times New Roman
4. Font Size : 12
5. Line Spacing : 1.5

**Course Outcome:** After the completion of this course the students will be able to prepare and evaluate any Research Project Report independently in the area of Economics.

**M. A. ECONOMICS**



## **BASIC FRAMEWORK**

The UGC has initiated a number of steps to provide quality and innovative education and to promote academic excellence in higher education. Implementation of CHOICE BASED CREDIT SYSTEM (CBCS) in UG and PG level uniformly in all the institutions and Universities is one of them. Higher Education undoubtedly plays a critical role in shaping the economy of both the individual and nation. Choice Based Credit System is an internationally acknowledged system which allows mobility of students in the institutions of Higher Learning. It focuses from teacher-centric to student-centric education and skill-oriented. Provision of Choice is an essential condition for broad-based learner's profile across areas of knowledge. It offers flexibility to students to earn credits at their own pace. It allows integration of best courses from best teachers through the Massive Open Online Courses (MOOCs). CBCS is a cafeteria type approach in which the students can

- take courses of their own choices
- undergo additional courses,
- acquire more than required credits
- adopt an interdisciplinary approach of learning
- transform the learning from traditional teacher-centric to students-centric

### **Objectives**

1. To provide greater flexibility in the choice of courses to students.
2. To provide broad-based education.
3. To enable students to choose courses at basic/advanced/interdisciplinary.
4. To enable students to acquire job-oriented skills.
5. To enable Students to progress at their own pace.

*Rm*

6. To enable highly motivated students to gain extra credits.
7. To bridge the gap between professional and social exposure to provide a holistic education.

**M A Programme:-** The Master of Arts in Economics is a Two year Full Time Programme, with each year comprising of Two Semesters. Two consecutive, one odd +one even i.e.I &II Semester in First Year and III&IV Semester in the next /Final Year. The Odd Semester may be scheduled from July to December and Even Semester from January to June. Each Semester will consist of 15-18 weeks of Academic Year to 90 actual teaching days

### **General Instructions:**

1. The new CBCS syllabus shall be effective from the Academic Session 2018-19.
2. The M. A. Degree Program will consists of 20 (Twenty) courses/ papers spread over four semesters consisting of **Core Courses (CC)**, **Elective Courses (EC)**, **Discipline Specific Elective Courses (DSE)**, **Generic Elective Courses(GE)**, **Ability Enhancing Courses (AEC)** and **Ability Enhancing Compulsory Courses (AECC)** as described in Table - 1. There shall be five papers/courses in First Semester, six courses/papers in Second Semester, six courses/papers in Third Semester and three courses/papers in Fourth Semester, each course carrying 100 marks. The entire curriculum shall be of 2000 marks taken together. However, CGPA/Class shall be awarded on the performance of the candidate on 16 papers which include the 14 CC papers and two EC papers having an aggregate of 1600 marks. The various types of courses under CBCS are defined below in Section 3.

### **3. Various Type of Courses:**

**3.1: Core Courses (CC):** A course which should compulsorily be studied by a candidate as a core requirement on the basis of subject of M. A. studies and is termed as a core course.

**3.2: Elective Courses (EC):** Generally a course which can be chosen from a pool of courses (basket) and which may be very specific or specialized or advanced or supportive to the subject/ discipline of the study or which provides an extended scope or which enables an exposure to some other subject/ discipline/ domain or nurtures the candidates proficiency/ skill is called an elective course.



- 3.3: **Discipline Specific Elective Courses (DSE):** Elective courses may be offered by the main discipline/ subject of study is referred to as **Discipline Specific Elective Courses**. The University/ institute may also offer discipline related elective courses of interdisciplinary nature (to be offered by main discipline/ subject of study.)
- 3.4: **Generic Elective Courses (GE):** An elective course chosen generally from an unrelated discipline / subject with an intention to seek exposure is called a **Generic Elective**.
- P. S.:** A core course offered in a discipline / subject may be treated as an elective by other discipline / subject and *vice versa* and such electives may also be referred to as **Generic Elective**.
- 3.5: **Ability Enhancement Courses (AEC):** The Ability Enhancement Courses (AEC) is the courses based upon the content that leads to life skill enhancement.
- 3.6: **Ability Enhancement Compulsory Courses (AECC):** University will run a number of Ability Enhancement Compulsory Courses (AECC) which is qualifying in nature and students from all faculties have to qualify in all courses.
4. **Dissertation/ Project/ Internship/ Industrial Training:** An elective course designed to acquire special/ advanced knowledge, such as supplement study/ support study to a project work, and a candidate studies such a course on his own with an advisory support by a teacher/ faculty member is called **Dissertation/ Project**.
5. **Credits:** The total minimum credits required for completing P G Programme in Economics is 100. The details of credits for individual components and individual courses are given in **Table - 1** below:

**Table - 1**  
Structure of the Two Years (Four Semesters)  
Post Graduate Degree Programme in ECONOMICS under CBCS

Semester	No. Of Course s/ Papers	Credit per Courses / Papers	Total Credits	Minimum No. Of Learning Hours	No. Of Core Courses/ Papers	No. Of Elective Courses/ Papers	Code and Nature of Elective Courses/ Papers
I	05	05	25	250	04	1	AECC-1

*Done*

Semester Break							
II	06	05	30	300	05	1	AEC-1
Semester Break							
III	06	05	30	300	05	1	AECC-2
Semester Break							
IV	03	05	15	150	0	3	EC-1 <sup>*</sup> EC-2 <sup>*</sup> DSE-1 or, GE-1
Total	20		100	1000	14	06	

# For Tutorial (T)/ Practical (P)/ Field Work (FW)/ Internship etc. Extra working hours to be added as per requirement and will be decided by BOCS of the Department.

\* The two Elective Courses (EC) to be studied in Semester IV may be:

- Both theory papers/
- One theory paper and one practical paper/
- One theory paper and one project work/
- One theory paper and one field work
- Both project work /Internship

**IMP:** It is desirable that all students of all courses be given adequate exposure over and above the class room teaching to enhance the scope of employability.

6. The distribution of the six elective papers shall be – Two ECs, one DSE or one GE, two AECCs and one AEC. Students may opt for any elective course(s) out of a list of elective papers (Basket) offered by the parent Department or by any other Department(s) as per his/ her choice with the prior permission of the parent department. The list of elective papers/ courses, syllabus and prerequisites of the elective course will be as decided by the Board of Courses of Study (BOCS) of the concerned department.
7. The final CGPA/ Class will be decided on the performance of the student in the 16 courses/ papers including 14 Core Courses and 2 Elective Courses.
8. The one DSE or GE, two AECCs and one AEC courses will be qualifying in nature and student has to score at least 45 percent marks in these courses. Grade will be awarded separately for these courses, however, performance in these elective courses/ papers will not be considered for awarding the final CGPA/ Class.

*R. W. J. M. S.*

**9. Basket of Ability Enhancement Courses (AEC): (any one)**

- \* Computers and ICT
- \* Web Designing
- \* Derivatives and Risk Management
- \* Solid Waste Management
- \* Mushroom Technology
- \* Bio-fertiliser Technology
- \* Environmental Law and Policy
- \* Tourism & Hospital Management
- \* Life and Communication Skill Development
- \* Yogic Sciences

**10. Basket of Generic (GE) Courses :( may opt any one)**

- \* Graphic Designing
- \* Inclusive Policies
- \* Human Rights
- \* Family Management
- \* Any course run by any department

Table - 2

Description of Courses/Papers for M A Degree in Economics under CBCS

Semester	Course/ Paper Code	Nature of Course/ Paper	Marks	Marks in CIA	Marks in ESE	Passing Criterion	Qualifying Criterion
1	CC - 1	Subject related Compulsory	100	30	70	45 % in CIA 45 % in ESE	Marks decide Class/ CGPA
	CC - 2	Subject related Compulsory	100	30	70	45 % in CIA 45 % in ESE	Marks decide Class/ CGPA
	CC - 3	Subject related Compulsory	100	30	70	45 % in CIA 45 % in ESE	Marks decide Class/ CGPA
	CC - 4	Subject related Compulsory	100	30	70	45 % in CIA	Marks decide Class/ CGPA

*Dipma*



II	AECC-I	Ability Enhancing Compulsory Elective	100	50	50	45 % in ESE 45 % in CIA 45 % in ESE	Qualifying
	CC-5	Subject related Compulsory	100	30	70	45 % in CIA 45 % in ESE	Marks decide Class/ CGPA
	CC-6	Subject related Compulsory	100	30	70	45 % in CIA 45 % in ESE	Marks decide Class/ CGPA
	CC-7	Subject related Compulsory	100	30	70	45 % in CIA 45 % in ESE	Marks decide Class/ CGPA
	CC-8	Subject related Compulsory	100	30	70	45 % in CIA 45 % in ESE	Marks decide Class/ CGPA
	CC-9	Subject related Compulsory	100	30	70	45 % in CIA 45 % in ESE	Marks decide Class/ CGPA
	AEC-1	Ability Enhancing Elective	100	50	50	45 % in CIA 45 % in ESE	Qualifying
	CC-10	Subject related Compulsory	100	30	70	45 % in CIA 45 % in ESE	Marks decide Class/ CGPA
III	CC-11	Subject related Compulsory	100	30	70	45 % in CIA 45 % in ESE	Marks decide Class/ CGPA
	CC-12	Subject related Compulsory	100	30	70	45 % in CIA 45 % in ESE	Marks decide Class/ CGPA
	CC-13	Subject related Compulsory	100	30	70	45 % in CIA 45 % in ESE	Marks decide Class/ CGPA

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	CC-14	Subject related Compulsory	100	30	70	45 % in CIA 45 % in ESE	Marks decide Class/ CGPA
	AECC-2	Ability Enhancing Compulsory Elective	100	50	50	45 % in CIA 45 % in ESE	Qualifying
IV	EC-1	Subject Specific Elective	100	Will be decided by BOCS	Will be decided by BOCS	45 % in CIA 45 % in ESE	Marks decide Class/ CGPA
	EC-2	Subject Specific Elective	100	Will be decided by BOCS	Will be decided by BOCS	45 % in CIA 45 % in ESE	Marks decide Class/ CGPA
	DSE-1 or	Discipline Specific Elective	100	30	70	45 % in CIA 45 % in ESE	Qualifying
	GE-1	Generic Elective - may be unrelated to subject across the faculty	100	30	70	45 % in CIA 45 % in ESE	Qualifying

Programme: M.A.( Economics):

Semester I: CC-1 to CC-4 plus AECC-1

Semester II: CC-5 to CC-9 plus AEC-1

Semester III: CC-10 to CC-14 plus AECC-2

Semester IV: EC-1 and EC-2 plus DSE-1 or GE-1

Dr. P. M. A.

**Table - 3**  
**Outline of M. A. Economics Program**

<b>SEMESTER I</b>			
S. No.	Course Code	Course / Papers	Credits
1.	CC - 1	Micro Economics Analysis - I	5
2.	CC - 2	Macro Economic Analysis - I	5
3.	CC - 3	Mathematical Methods	5
4.	CC - 4	History of Economic Thought	5
5.	AECC - 1	Environmental Sustainability (3 credits) & Swachchha Bharat Abhiyan Activities (2 credits)	5
			<b>Total Credits</b>
<b>25</b>			
<b>SEMESTER II</b>			
S. No.	Course Code	Course / Papers	Credits
1.	CC - 5	Indian Economy - Issues & Policies - I	5
2.	CC - 6	Economics of Growth & Development - I	5
3.	CC - 7	Microeconomic Analysis-II	5
4.	CC - 8	Macroeconomic Analysis-II	5
5.	CC - 9	Statistical Methods	5
6.	AEC - 1	Any one from Basket of Ability Enhancement Courses	5
			<b>Total Credits</b>
<b>30</b>			
<b>SEMESTER III</b>			
S. No.	Course Code	Course / Papers	Credits
1.	CC - 10	Indian Economy - Issues & Policies-II	5
2.	CC - 11	Economics of Growth & Development-II	5
3.	CC - 12	Public Economics	5
4.	CC - 13	International Economics	5
5.	CC - 14	Research Methodology	5
6.	AECC - 2	Human Values and Professional Ethics (3 credits) & Gender Sensitization (2 credits)	5
			<b>Total Credits</b>
<b>30</b>			

Diprno

SEMESTER IV			
S. No.	Course Code	Course / Papers	Credits
1.	EC-1	(A) Agricultural Economics	5
		(B) Industrial Economics-I	
		(C) Basic Econometrics	
		(D) Monetary Economics & Policy	
		(E) Indian Public Finance	
		(F) Urban Economics	
		(G) Financial Economics-I	
		(H) Environmental Economics	
2.	EC-2	(A) Indian Banking & Financial Institutions	5
		(B) Industrial Economics-II	
		(C) Demography	
		(D) Agri - Business Management	
		(E) Labour Economics	
		(F) Gender Economics	
		(G) Financial Economics -II	
		(H) Time Series Econometrics	
		(I) Project Work	
3.	DSE-1	(A) Fundamentals of Economics	5
	Or	(B) Indian Rural Development	
		(C) Planning And Economic Development in India	
	GE-1	(D) Personnel Management & Industrial Relation	
		May opt one from Basket of Generic Courses	
Total Credits			15

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**Department of Ancient Indian History & Archaeology,**  
**Patna University, Patna**

**Programme outcomes**

In order to understand the present, it is extremely important to understand the past. The study of Ancient History provides us the opportunity of learning about our vast heritage and realizing about our vast heritage and realizing how it has shaped the modern society. Archaeology helps in gaining a first-hand understanding of the past. Without the study of archaeology, along with exploration and excavation, it would not be possible to study Ancient History chronologically.

**Programme Specific outcomes (PSO):**

PSO1: Creates employment capacity in the field of Archaeology.

PSO2: Provides knowledge of Indian Culture.

PSO3: Promotes interest in research in the subject.

PSO4: Provides knowledge of excavation and exploration.

PSO5: Provides knowledge of Museum, Heritage & Tourism.

PSO6: Raises consciousness for protection and promotion of heritage

**Course Outcomes**

S. No.	Name of paper	Outcomes
CC - I	Political History of India (From Indus Valley Civilization to 319 A.D)	This subject gives the knowledge about early history. It provides the background for Ancient History and Archaeology course.
CC - II	Political History of India (From 319 A.D to 1206 A.D.)	It gives knowledge about various regions in India and helps in the understanding the historical developments in North India and South India
CC - III	Ancient Indian Epigraphy	Paleography and Inscription are principal source are of subject. Various aspects of the subject depicted through Paleography and Inscriptions.

CC - XIII	Religion, Philosophy & Political Administration of Ancient India	This paper is the backbone of Ancient Indian History which presents the original idea of philosophical belief, Religious fact and political changes.
CC - XIV	Practical	Gives first hand information about the antiques Present in Ancient India. It also helps in developing future carrier as archacologist
Elective course (XV-XVI)	Elective course Two paper	Then other papers are offered based on student's choice. This gives an ideas about student interest in the CBCS curriculum, that is Religion, Philosophy, Buddhism, Tourism, Polity, Art, Iconography, Architecture etc.

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12.7.19

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## **I.I CURRICULAR DESIGN AND DEVELOPMENT**

### **Department of Geography**

Patna University, Patna

#### **1. Doctorate Programme : Ph. D. in Geography**

##### **Q.M- I.I.I PROGRAMME OUTCOME/ PROGRAMME SPECIFIC OUTCOME**

- To be Employed in Higher Education
- Work as Researcher
- Work in Town Planning Department

#### **2. Post Graduation Programme : M.A in Geography**

##### **Programme Outcome :**

- Employed as Professor/ Lecturer
- Research
- School teacher
- Administration etc..

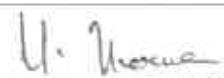
##### **Programme Specific Outcome:**

- Pursue higher study in Geography
- Demography
- Remote Sensing & GIS
- Research & Planning etc

*U. Sharma*  
16/1/19  
Head of the Department  
of Geography  
PATNA UNIVERSITY

## COURSE OUTCOME:

COURSE OUTCOME: M.A in Geography			
Course Code	Paper Code	Course Name	Remarks( Value added or skill Development)
CC-1	GEOG-M-101	Geomorphology	Landscape Analyst, <b>Employment in Road and engineering Project. Oil Exploration, Mining etc.</b>
CC-2	GEOG-M-102	Climatology & Oceanography	Climatologist
CC-3	GEOG-M-103	History Of Geographical Thought	-
CC-4	GEOG-M-104	Representation and analysis of Statistical data (Practical)	Cartographer
AECC I		Environmental Sustainability & Swachha Bharat Abhiyan Activities	Value Added
CC-5	GEO-M-201	Regional Planning And Development & Rural Development	<b>Rural development Officer/ Planner</b>
CC-6	GEO-M-202	Environment And Disaster Management	<b>Environment Consultant, Nature Conservation Officer, Pollution Analyst</b>
CC-7	GEO-M-203	Resource And Economic Geography	Sustainability Consultant
CC-8	GEO-M-204	Geography Of India	<b>Tourism Officer, Conservation Officer</b>
CC-9	GEO-M-205	Cartographic Techniques (Practical)	Cartographer, Gis Analyst
AEC-I		Ability Enhancement Course	Skill Development
CC-10	GEO-M-301	Quantitative Techniques And Research Methodology	Data Analyst, Researcher
CC-11	GEO-M-302	Remote Sensing And Geographical Information System	GIS Analyst, GIS Officer
CC-12	GEO-M-303	Human and Social Geography	Value Added
CC-13	GEO-M-304	Land Use and Agriculture Geography	Agriculture Officer
CC-14	GEO-M-305	Instrumental Surveying, GIS and GPS	Surveyor, System Analyst, Civil Works
AECC-II		Human Values and Professional Ethics And Gender Sensitization	Value Added

  
 16.07.2019  
 Head of the Department  
 of Geography  
 PATNA UNIVERSITY



EC-1 (Elective Course)	GEOG-M-401	A- Urban geography/	Town Planner, Planning & Development Surveyor, Pursue Higher studies in Town Planning
		B- Political Geography/	Political Analyst, Electoral Data Analyst, Election Officer
		C- Population Geography/	Demographer,
		D- Geology of India/	Geological Survey of India, Geologist
		E- Settlement Geography/	-
		F. Advance Cartography/	Cartographer, Researcher
EC-2 (Elective Course)	GEOG-M-401	Dissertation/ Project Work based on Socio- Economic Survey	Project Officer
DSE-1 (Discipline Specific Elective) Or GE-I (General Elective)		Regional Planning and Rural Development (201- CC-5) Or Geography of Bihar	Planning Officer in Planning and Rural Department

U. Verma  
16/07/2015  
Head of the Department  
of Geography  
PATNA UNIVERSITY

# Department of History

Patna University, Patna

## QIM Report

**1.1.1 Curricula developed/adopted have relevance to the local/national/regional/global developmental needs with learning objectives including Programme outcomes, Programme specific outcomes and course outcomes of all the Programme offered by the University.**

### Programme Outcomes

Persuance of P.G. courses in Social Science, History in our case, the overall aim and objective is to encourage academic understanding and Research work. Research work is meant to expand the horizon of historical understanding and trend fresh ground of research.

Outcome parameters in social sciences differ from science subjects and technology. Scholastic achievements will have to be measured and appreciated on a different scale, for social sciences deal with people, their institutions, their culture, language, struggle for existence etc. Outcome and output indices will have to be prepared according to the subjects being taught.

Yet the teachers of the department advice the students on how to take the competitive examinations, interviews etc. Therefore along with research academic, application, employability is also stressed upon.

### Course Outcome

**Subject : M.A. HISTORY**

**Semester - I**

Sl. No.	Paper/Course	Title	Course Outcome
1.	HIS-M-101	Historiography and History of Ideas	<b>Research/ Academic-</b> Helps in acquiring the basic concepts of history writing, subjective & objective factors, sources & schools of history and ideas in writing of history
2.	HIS-M-102	History of Early Civilizations and Medieval World	<b>Academic-</b> Provides academic input on Early civilization in the world context and of the medieval history of the world civilization.
3.	HIS-M-103	Early Medieval India (600-1200 A.D.)	<b>Research-</b> Early medieval in the Indian context is taught with emphasis on what differentiates the ancient from the medieval
4.	HIS-M-104	Science & Technology in India	Development of Science & Technology in India from the Ancient to the Modern period (Applications)

**Semester - II**

Sl. No.	Paper/Course	Title	Course Outcome
5.	HIS-M-201	History of Europe 1919-2000	<b>Research/ Academic-</b> Provides insight into European politics, major revolutions, onset of cold war etc. that affected the course of world and Indian history.

6.	HIS-M-202	History of Bihar (from the earliest time of 1947 A.D.)	<b>Academic/Research/Employability-</b> Important paper for research are very useful for those taking the State Civil Services Examinations
7.	HIS-M-203	Society and Economy in Indian History	Provides a broad narrative of social and economic aspect of Indian history of high academic value, research and employment.
8.	HIS-M-204	Project work on Heritage and Tourism etc.	<b>Applications and Employability-</b> Enhances job prospect and sensitivity towards environment.

## Semester - III

Sl. No.	Paper/Course	Title	Course Outcome
9.	HIS-M-301	Indian Historians	The paper has academic and research value. Contribution of Indian Historian of ancient, medieval & modern indian is discussed.
10.	HIS-M-302	South Asia 1950 onwards	<b>Academic, Research and Employability-</b> Extends the study of history to include other South Asian countries and Comparative teaching of developments in India, Nepal, Sri Lanka, Bangladesh. It is helpful for students who wish to take up study in international relations
11.	HIS-M-303	United States of America 1860-1990	Academic, Research, Employability- Very important for all students of Social Sciences
12.	HIS-M-304	National Movement in India	<b>Academic, Research and Employability-</b> Detailed understanding of the National Movement in India are very helpful for all kind of competitive examinations.

## Semester - IV

Sl. No.	Paper/Course	Title	Course Outcome
13.	HIS-M-401	Choice based Group ABCDE A- Ancient India – 600 BC-600 AD B- Medieval India – 1200 AD-1700 AD C- Modern India D- International History E- South India	Academic, Research, Application, Employability Detailed knowledge of the subject of choice is provided, prepares students for future research, scientific & rationale thought is encouraged, helps in civil services & other examination.
14.	HIS-M-402	Choice based Group ABCDE A- Ancient India – 600 BC-600	Academic, Research, Application, Employability Detailed knowledge of the subject of choice is provided, prepares students for future research,

		AD B- Medieval India – 1200 AD-1700 AD C- Modern India D- International History E- South India	scientific & rationale thought is encouraged, helps in civil services & other examination.
15.	HIS-M-403	Choice based Group ABCDE A- Ancient India – 600 BC-600 AD B- Medieval India – 1200 AD-1700 AD C- Modern India D- International History E- South India	Academic, Research, Application, Employability Detailed knowledge of the subject of choice is provided, prepares students for future research, scientific & rationale thought is encouraged, helps in civil services & other examination.
16.	HIS-M-404	Choice based Group- Disertation and Viva-Voce ABCDE A- Ancient India – 600 BC-600 AD B- Medieval India – 1200 AD-1700 AD C- Modern India D- International History E- South India	Academic, Research, Application, Employability Detailed knowledge of the subject of choice is provided, prepares students for future research, scientific & rationale thought is encouraged, helps in civil services & other examination. Project work encourages students to do research on their own under the guidance of a teacher. In the viva-voce they are asked to present their findings to a set of invited experts.

### 1.3.1 Institution Integrates cross cutting issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics Into the Curriculum

#### Gender -

- The department runs the womens study center which focusing on gender development, participations creation of a protective environment etc.
- On March 8<sup>th</sup> every year the International Womens Day is celebrated.

#### Environmental Sustainability

The old fans have been replaced by the new models which require less electricity.

The normal bulbs and tube lights have been replaced by LED bulbs.

Instructions have been given to students to switch off the lights and the fans after classes.

Instructions have been given to students and employees regarding the wastage of paper which leads to the degradation of environment.

- Lecture are held on environment and environmental sustainability experts are invited to take classes in M.A., Sem. – I CIA exam AEC – I in a paper on sustainability environment.
- Students are request to maintain small garden in the department.
- Students have contributed flower, Pots, plants to keep the campus green and healthy.
- In the M.A. 1st year syllabus there is also a chapter on environment.
- History Dept. has signed and MOU with TISS on the subject rivers, cities and migration.

#### Institutional Distinctiveness

- The Department has a Green Section in the main corridor where plants donated by teachers and the students architate. The department of History, Patna University is recognised as an excellent centre of teaching that makes it the most popular subject of social science. The mode of teaching is interactive; the emphasis is on enhancing the spirit of enquiry among students. Classes are as far as possible not dropped despite teacher shortage.
- The Department has a well stocked library to cater to the needs of P.G. students. Although poorly staffed, the library is well maintained. Books are frequently donated by retired teachers and other scholars, subscription of important journals related to Social Science has increased the strength of the library although lack of funds is causing some problems in purchase of new books and journals.
- Seminars and presentations are regularly organized. Students are taken on historical tours.

**2.2.1 The Institution assess the learning levels of the students, after admission and organizes special Programmes for advanced learners and slow learners.**

- ✓ A small test is conducted soon after admission usually objectives in nature, gauge to gauge the learning level of the students.

**2.3.1 Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences.**

- ✓ Students are encouraged to share their experiences of for org. visit to Museum, historical site etc.

**2.5.4 Positive impact of reforms on the examination procedures and processes including IT integration and continuous internal assessment on the examination management system.**

- ✓ The CIA exam have made the students alert and confident. They are now better prepared for the ESE.

**3.6.1 Extension activities in the neighbourhood community in terms of impact and sensitising students to social issues and holistic development during the last five years.**

- ✓ The HOD is directly involves Women's College in the protection and care of children, as a Director of Child line, she involves the schools in these activities.
- ✓ Prof. Maya Shankar Chairperson Spic Macay of Bihar organises cultural programmes in colleges as well as in schools.

**4.1.1 The Institution has adequate facilities for teaching-learning viz., classrooms, laboratories, computing equipment, etc.**

- ✓ The PG Deptt. of History has a very rich library which includes text book, reference books and journals.
- ✓ There IT facility have been provided for the students.

Activity	Level	Participants
Spic Macay	National Level	All students of MA History
Alumni Meet	National Level	Old Students of PG History
Fresher's Day	Department Level	All Students of MA History
Quiz	Department Level	All Students of MA History
Poster Presentation	Department Level	All Students of MA History

**4.1.2 The institution has adequate facilities for sports, games (indoor, outdoor), gymnasium, yoga centre etc., and cultural activities.**

Year-	Name of the award/ medal	National/ International	Sports	Cultural	Student ID number	Name of the student
13-14 May 2018	3 <sup>rd</sup> International Wado RYQ Karate Championship	International	Judo Karate	NA	NA	Rajiv Kumar Khatri 70 kg Weight Category
2018	Bihar State Karate Championship	National	Judo Karate	Karate Association of India	0021 Certificate No.	84 Kg. Weight Category
2018	IMSTAR fighter Institute of Martial Art	National	Judo Karate	State Karate Association of India	-	84 Kg. Weight Category
07-09 Sept. 2018	2 <sup>nd</sup> SKAJ Open Karate Championship 2018	National	Judo Karate	Sports Karate Association of Jharkhand	-	75 kg. Weight Category

**4.2.2 Collection of rare books, manuscripts, special reports or any other knowledge resource for library enrichment.**

Name of the book/manuscript	Name of the publisher	Name of the author	Number of copies	Year of publishing
<b>Register Maintain</b>				

**4.3.1 Institution frequently updates its IT facilities including WI-Fi.**

- ✓ ICT facilities are available - Desktop, Laptop, LCD Projector, Screen.
- ✓ Swayam channel has been installed.
- ✓ So far it has not been digitalised but process will start very soon.

**5.3.2 Presence of an active Student Council & representation of students on academic & administrative bodies/committees of the institution.**

- ✓ The Departmental Council has two representatives from two semesters. Student Counsellor are elected for PUSU Patna University Student Union.

**5.4.1 The Alumni Association/Chapters (registered and functional) contributes significantly to the development of the institution through financial and non-financial means during the last five years.**

**ALUMNI PROFILE**

- ❖ Dr. Surendra Gopal – 1958, The Dust Storm and the Hanging Mist Patna in the 18<sup>th</sup> Century.
- ❖ Dr. I.C. Kumar – IAS
- ❖ D.N. Jha – 1959, Ancient India; Introductory
- ❖ Dr. S.K. Jha – IPS

- ❖ Dr. Ramchandra Khan – IPS
- ❖ Dr. R.L. Shukla – (i) India in the Persian gulf  
(ii) Modern India
- ❖ Dr. Y.D. Prasad – 1963, Indian Muslim and the First World War.
- ❖ Dr. Srinath Mishra – IPS
- ❖ Dr. Shivanandan Prasad – ITO
- ❖ Dr. Pratyush Sinha – IAS
- ❖ Dr. A.K. Singh – IAS
- ❖ Dr. B.P. Sinha – Chief Justice of India
- ❖ Dr. Ashok Das – NABARD
- ❖ Dr. Kamlesh – State Services

**6.1.2 The Institution practices decentralization and participative management.**

- ✓ Decentralization is basic core value of the History Department. All the activities are planned, designed and performed by the students.
- ✓ They are Involved in Department Council meeting and in the editorial team.

**6.2.4 Effectiveness of various bodies/cells/committees is evident through minutes of meetings and implementation of their resolutions.**

- ✓ All the decisions taken have been well implemented. The decisions to organised Spic Macay Programmes was taken in the counselling and some of the best Rajasthani singers of India came at our request.
- ✓ These programmes are meant to enhance the cultural understanding of the students and teachers alike.

**6.4.3 Institutional strategies for mobilization of funds and the optimal utilization of resources.**

- ✓ Funds are sought to be mobilised from organisation like TISS and from the MPs Donation fund.

**6.5.2 The Institutional reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through IQAC set up as per norms.**

- ✓ The IQAC cell has been constituted of two teachers and two Retd. teachers. The same cell looks into the complaints put in the grievance box.

**7.2.1 Describe at least two Institutional best practices (as per NAAC format given in next page).**

Completely new infrastructure with class-rooms allotted and the Department, where paper cutting, wall newspaper, charts etc be displayed permanently. Air conditioned seminar hall. Heritage park and Museum, rooms for display of paintings, jewellery, cultural history etc. Linkages with Indian and foreign Universities, agencies like TISS, CSDS, UNO etc. Sufficient number of Teachers not only on the basis of PTR but also on the basis specialised teaching.

  
 Head of the Department of History  
 Patna University

**Prof. (Dr.) Anju Srivastava**  
Head, Department of Home Science  
Patna University, Patna



To,  
The NAAC Coordinator  
Patna University, Patna

13.07.2019

**Subject: Submission of:**

- 1) Program Outcome, Program Specific Outcome and Course Outcome**
  - ii) Students' Feedback Sem - IV (2017- 2019) and Sem - II (2018 - 2020)**
- In Home Science**

Sir,

In response to letter no NAAC/1463, dated: 06.07.2019, we hereby submit the required information.

Thanking you,

Yours sincerely,

  
(Anju Srivastava)



## Home Science

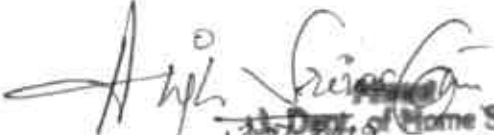
Program Outcome (PO), Program Specific Outcome (PSO), Course Outcome (CO)

### Program Outcome (PO)

- PO1: Understand and appreciate the role of interdisciplinary sciences in the development and well-being of individuals, families and communities.
- PO2: Understand the science and technologies that enhances the quality of life of people.
- PO3: Acquire professional and entrepreneurial skills for economic empowerment of self in particular and community in general.
- PO4: Develop professional skills in food, nutrition, textiles, housing, product making, communication technologies and human development.
- PO5: Take science from the laboratory to people.

### Program Specific Outcome (PSO)

- PSO1: Appreciate nuances of value based quality life skill oriented learning.
- PSO2: Blend relevant instructions with real time applications in career.
- PSO3: Apply lateral thinking with techno fervor.
- PSO4: Buttress technological linkages for professional development.
- PSO5: Apply analytical principles of food and nutrients in diet formulation.
- PSO6: Devise research strategies for empowering and promoting healthy living in the community
- PSO7: Professional competence to take up careers in academic, health care and service industry.
- PSO8: Enable to pursue higher education and research.
- PSO9: Hand-hold students for a smooth transition from education to self-employment to entrepreneurship to business.
- PSO10: Translate the gained knowledge, skills and training to their given personal interest and immediate benefits- launching of entrepreneurial ventures under the support of Central Government's Schemes like Make in India and Startup India.

  
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Dept. of Home Science  
Patna University, Patna

## Course Outcome (CO)

Name of the Course	Course Outcome
CC-1 Advanced Nutrition	To provide advanced knowledge in nutritional sciences, food microbiology, food cost and quality control.
CC-2 Child Development: Prenatal to Preadolescence	To describe how individuals develop and change from womb up to preadolescence and relate the principles of human development with self, family and society.
CC-3 Concept of Home Management	To exhibit efficient use of resources at home and work and develop the ability to evaluate the managerial efficiency in family and other organizations.
CC-4 Research Methodology and Statistics	To develop scientific approach and competence for selecting methods and tools appropriate for research and understand the concepts of statistics related to social research.
AEEC-1 Environmental Sustainability & Swachha Bharat Abhiyan Activities	To develop concept of sustainable development that leads to the protection of environment, work capability with recreation activities.
CC-5 Therapeutic Nutrition	To describe health and disease issues related to nutrition including food safety, corrective dietary modification and influence of specific nutrients on disease.
CC-6 Maternal and Infant Nutrition	Enable the students to understand physiological changes during pregnancy and lactation and also to acquaint with inter-relationship between nutrition, growth and development during a life cycle.
CC-7 Management of Textile Crafts and Apparel Industry	To acquaint students with the development of different textiles, and understand the history of textile art, industry and for future trends and development.
CC-8 Communication Technology	To accumulate a rich basket of value added, co-curricular course soft skills and communication skills instilling self-confidence and moral values and develop professionalism with ICT facilities.
CC-9 Women's Studies	To acquire wide knowledge about cross-cutting women's and gender-based advantages and disadvantages present in society and learn about societal institution and power structures which impact the material realities of women's lives.
AEC-1 Solid Waste Management	Community managed sanitation systems focusing on scientific solid & liquid waste management systems for overall cleanliness in the premises as well as community as a whole.
CC-10 Food Processing	To analyze and assess new trends and technologies in food processing and enrich the knowledge of students in food preservation.
CC-11 Food Science and Experimental Food	To learn how to apply wide range of scientific knowledge to maintain high quality and study the physical, biological and chemical makeup of food, causes of food deterioration and concept underlying food processing.
CC-12 Institutional Food Management	To understand scientific principles and techniques of food service management and to acquire skills in organization and management of food service.
CC-13 Community Nutrition	To adequate lifestyles related to food consumption patterns in order to improve the quality of life and contribute to health promotion of the population in the community where programs and services are delivered.
CC-14 Practical	Use of different methods of food processing, running & managing food service and cafeteria, development of low cost recipes for different segments of community.
EC-1 Practical Approach to Writing Research Activities	To provide opportunity to apply classroom knowledge in practical situations and enhancing the student's academic and career goals.
EC-2 Internship/Dissertation/Project/Seminar	To enable students in enhancing a wide range of skills, including project planning, project management, analysis, time management, and possibly skills to communicate with the world through surveys and data collection.
GE-1	

  
 13.07.2024  
 Head  
 Dept. of Home Science  
 Patna University, Patna

# University P G Department Of Music

Programme Name : M.A. Music

Programme Code : MAMUS

## Programme Specific Outcomes (PSO) :

PSO1 : Prepares Students for academics

PSO2 : Prepares Students for archival collection

PSO3 : Prepare students for Artistic productions

PSO4 : Introduces students to systematic investigation into the sources and materials to arrive at new conclusions in Musicology and Classical Music

# Course Outcome

## Subject – Music

### Semester – I

Sl. No.	Paper Code	Paper Name	Course Outcome
1.	CC01	History of Music	Provides knowledge of historical aspects of music
2.	CC02	Principle of Music	Provides knowledge of musical terms like Swar, Shruti, Naad and different types of Gharana, etc.
3.	CC03	Applied Theory	Provides Knowledge of different Ragas.
4.	CC04	Practical	Performance improvement and enhance practical skill.

## Subject – Music

### Semester – II

Sl. No.	Paper Code	Paper Name	Course Outcome
1.	CC05	History of Music	Provides knowledge of historical aspects of music
2.	CC06	Principle of Music	Provides knowledge of musical terms like Gram, Swar-Samvad, Murchana and types of Gharana in Bihar, etc.
3.	CC07	Applied Theory	Provides Knowledge of different Ragas.
4.	CC08	Practical	Performance improvement and enhance practical skill.
5.	CC09	Stage Presentation	Improvement in Stage Presentation.

## Subject – Music

### Semester – III

Sl. No.	Paper Code	Paper Name	Course Outcome
1.	CC10	Aesthetics & Folk Music	Develops knowledge of aesthetics and also of the manner in which music provides aesthetic entertainment, satisfaction to the audience. It also develop the knowledge of folk songs, folk instruments and folk poets.
2.	CC11	Western Music	It provides knowledge of Western Music.
3.	CC12	Applied Theory	Provides Knowledge of different Ragas.
4.	CC13	Practical	Performance improvement and enhance practical skill.
5.	CC014	Practical	Performance improvement and enhance practical skill.

## Subject – Music

### Semester – IV

Sl. No.	Paper Code	Paper Name	Course Outcome
1.	EC01	Stage Demonstration	Improvement in Stage Presentation.
2.	EC02	Project & Viva	Enhance analytical, evaluation and research skill.
3.	DSE01	History of Music	Provides knowledge of historical aspects of music .

*N. C.*  
Signature of Head



Signature of Departmental Committee

- ① *Neera C.*
- ② *Abhishek*
- ③ *Saikat Patel*
- ④
- ⑤ *Ruma Chakraborty*

## Specific Outcome

### Subject Music

- ✓ **Academic** – Degree Provides excellence in higher education and proficiency in Musical aspects.
- ✓ **Research** – Provide knowledge of Indian, Historical and Cultural Music.
- ✓ **Employability** – Create Professional Artists and Provide a Degree for employment in Indian School, Colleges and Universities.

*N. Chandra*  
15.7.19

Signature of Head

Signature of Departmental Committee

- ① *N. Chandra*
- ② *Arjun*
- ③
- ④ *Sanku Patel.*
- ⑤ *Ruma Chakraborty.*





INSTITUTE OF PSYCHOLOGICAL RESEARCH AND SERVICE

**Programme name: Post Graduate Diploma In Clinical Psychology (PGDCP)**

**Programme Code : PGDCP**

**Programme Outcome:** The course is designed to provide theoretical inputs as well as practical experience through training in psychological assessment & intervention to provide service to the community in core clinical area.

**Programme Specific Outcome (PSO):** The programme is designed to train students with acceptable level of competency to offer the basic mental health services to the community such as diagnosing and intervening of mental health problems.

**Course outcome (CO) of courses**

**Course Code: CC-1**

**Course: Foundation of clinical psychology**

**CO-1** Development of understanding of the historical events of clinical Psychology and application of psychological principles to personal, social and clinical issues.

**CO-2** At the end of the course, the students will be able to gain knowledge and experience to work as clinical psychologist, will leave with a scientific and evidence based approach to clinical psychology, will ensure with depth knowledge to clinical psychology, understand training, education and professional issues in clinical psychology, can apply the knowledge in personality development, mental health, behavioural medicine and clinical neuropsychology.

**Course Code: CC-2**

**Course: Personality Psychology**

**CO-1** Students will be able to understand the various models of personality theory. They will also be able to compare various theories of personality, critically evaluate different theories in the background of the empirical research.

**CO-2:** Understand the application of personality assessment in clinical practice.

*Man*  
11-7-19

*Prakash*  
10-7-19  
Institute of Psychological Research  
& Service, Patna University

**Course Code: CC-3**

**Course: Psychopathology**

**CO-1:** Develop understanding of the various manifestation of psychopathology.

**CO-2:** At the end of the course students will be able to develop understanding of the various manifestation of psychopathology. Develop understanding of skills required to diagnose various disorder, apply knowledge in aetiology and treatment of psychopathology.

**Course Code: CC-4**

**Course: Clinical Psychological Testing**

**CO-1:** Develop psychological assessment skill.

**CO-2:** At the end of this course students will be able to administer psychological test. Interpret the scores obtained, prepare a report and make assessment of cases.

**Course Code: CC-5**

**Course: Life Span**

**CO-1:** Develop understanding of the life span developmental process.

**CO-2:** At the end of the course, the students will be able to learn the fascinating process of human development, acquire knowledge of developmental principles that will serve them well in their roles as parents, teachers, and psychologists or in any other capacity. Students will be able to understand the specific issues pertaining to different stages of life.

**Course Code: CC-6**

**Course: Social and community Psychology**

**CO-1:** Develop learning skill related to psycho diagnosis to screen mental health of community.

**CO-2:** At the end of the course, the student obtains an advanced understanding of relevant concepts, issues and work methods in social and community psychology and apply the same in social and institutional frameworks

**Course Code: CC-7**

**Course: Clinical Assessment and Intervention**

**CO-1:** Develop skill related to clinical assessment and various intervention techniques.

**CO-2:** After completion of the course students will be able to understand theory and techniques of psycho-therapy develop understanding of assessment techniques, examine the relevance of therapies as a preferred treatment plan for clients with psychological dysfunctions.

*P. K. Srinivasan*  
10.7.19

Course Code: CC-8

**Course: Dissertation/Project**

- CO-1 Develop skill required to diagnose various mental disorders, clinical case formulation with treatment plan.
- CO-2: At the end of the course students will be able to conduct a clinical interview, make differential diagnosis of clinical conditions, develop a psycho-diagnostic formulation, write a clinical case history, develop treatment plan and initiate therapeutic goals with clients using a CBT approach.

P. K. Kulkarni  
10.7.19

Department of Psychological Research  
University of Mumbai

NAAC Criteria – II

**Name of Programme : M.A.IN RURAL STUDIES (RURAL MANAGEMENT AND DEVELOPMENT)**

Course Outcome

Kindly provide information in the 'Course Outcome' Column according to the following parameters :

- Academic
- Research
- Applications-Environmental, Social, Scientific
- Employability

**Subject : Rural Studies (Rural Management and Development)**

**Semester – I**

Sl. No.	Paper/Course	Title	Course Outcome
1	CC-1	Indian Rural Society & Rural Administration	The Indian Economy is based on agrarian economy. The New Millennium is at the threshold of new opportunities, threats and challenges for Indian Rural Societies. The new generation farmers/small entrepreneurs aspirants would have equip themselves with modern farming and cultivation system with new technological change. Hence the paper will provide the basic knowledge and understanding the Indian Rural Societies and its administrations with the new role of panchayat raj system. The subject and the content will explore academic, research and employability in the rural areas.
2	CC-2	Rural Economics	In the era of economic reform, the changing dynamic of rural economy creates a panic situation in the country. In the emergence of global economy, Rural Economics are gradually becoming more complicated and complex. To move towards faster and more inclusive growth , the new dimensions of rural economics is the demand of the new era. The paper is being designed to study Indian agriculture with their technological change and various labour legislations relating to the informal economy and rural society. With the change of specific and peculiar characteristics of agriculture economy in different economic system the paper focuses on various rural labour problems such as unemployment, poverty, migration etc. This paper will create a vast area of research, employment and its applications in Indian Rural Society. It is a major area for academia.
3	CC-3	Rural Marketing	Marketing is not only an indispensable tool in the hands of the rural business

- Academic
- Research
- Applications-Environmental, Social, Scientific
- Employability

**Subject : Rural Studies (Rural Management and Development)**  
**Semester – II**

Sl. No.	Paper/Course	Title	Course Outcome
1	CC-5	Project Management	The agricultural world and industrial world are two major segments of growth of Indian economy. Rural projects relating to agriculture and cottage industry plays important role in GDP and inclusive growth. The paper is designed to enhance the opportunity of employment and income in traditional economic activity and strengthening the rural infrastructure and agri production in the rural sector.
2	CC-6	Rural Development Programmes	Rural development involves all round development of the rural societies. To attain the goal of inclusive growth and rural development, the Govt. of India as well as state Govt. since independence, made several policies and programmes. The paper is designed to study the various rural development programmes runs by the centre and the state Govt. Another important aspects of the programme is to develop industry, business and services in the rural areas and create conducive living conditions in the rural areas. The paper explore a vast area of research and innovation and creates employability in the rural economy.
3	CC-7	Rural Welfare	The aim of this paper can only be a classless society with equal economic justice and opportunity for all, a society organised on a planned basis for the raising of mankind to higher maternal and cultural levels, to a cultivation of spiritual values, of cooperation, unselfishness and spirit of service, the desire to be right, goodwill and love and ultimately a world order. Social welfare is the organized system of social services and institutions

6	AEC-1	Life Skill & Skill Development	will explore a vast area of research.

Signature of Departmental Committee

Signature of Head

NAAC 2

**Name of Programme : M.A.IN RURAL STUDIES (RURAL MANAGEMENT AND DEVELOPMENT)**

**Course Outcome**

Kindly provide information in the 'Course Outcome' Column according to the following parameters :

- Academic
- Research
- Applications-Environmental, Social, Scientific
- Employability

**Subject : Rural Studies (Rural Management and Development)**

			<p>study the fundamentals of HRM with consequential changes in people management approaches of organisations and the responses of HR professionals. The behavioural change of the Human Resource is the core area of the organisation for successful handling of the organisation. The outcome of this subject is to equip the human being with professional skills and develop employ ability, and research in wide field of the organisations of both public &amp; private sectors.</p>
4	<b>CC-13</b>	<b>Computer System and Computer Applications</b>	<p>The third Industrial revolutions is Informational Technology. With the advent of IT and digitalisation of the country, Computer application is integral part of our curriculum. We cannot imagine life without computer and IT. To handle the global business skill and knowledge with proficiency, computer application is highly required. Computer &amp; IT has no end and will explore new area of research &amp; innovation. IT knowledge and application will generate employability in various field.</p>
5	<b>CC-14</b>	<b>Rural Entrepreneurship</b>	<p>Only purposeful human activity can bring about economic development. Man stands at the centre of the whole process of economic development. Schumpeter feels that economic development will be a reality if new combinations of the means of production are undertaken. This is the work of the entrepreneur, he located ideas and puts them into effect in the process of economic development. Thus, the entrepreneur occupies a crucial place in the process of economic development. Schumpeter further states that economic progress depends on the rate of applied technical progress of innovation. The rate of applied technical progress in turn depends on the supply of entrepreneurs in the society. Therefore, entrepreneurial activity or entrepreneurship is the agency which</p>

			develop confidence and ability to handle the situation and manage the organisations.
2	EC-2	Viva-voce (Based on dissertation and theoretical aspects of various papers	The purpose of this paper is to assess the quality of mind and knowledge, experiences of the students which he has acquired during the course periods. This will develop the confidence level of these students and build up their mind and personality.
3	DSE-1	Rural Immersion Programme	The rural immersion programme plays a vital role in integrating the various rural activities in the rural economy to attain the vision of the inclusive growth. The purpose of this paper is to develop the knowledge about the project and enhance the capacity of the resource. The theoretical and practical knowledge will create conducive living conditions in the rural society. The paper will generate employability and a vast area of research.
4	GE-1	Village assimilation & Rural Resilience	Village assimilation and Rural Resilience is the core area of the rural management, which creates reconstruction and reengineering of the rural society. Adaptability is emerging as a key issue not only in the climate change debate but in general area of sustainable development. In this context the paper is designed to create a link between house hold resilience and connectivity in the rural community. The basic infrastructural development such as transportation, rural health, sanitation, electrification, school infrastructure, rural marketing, etc. will generate employability in the rural society.

Signature of Departmental Committee

Signature of Head

NAAC 4



Governments have adopted a number of schemes such as the MNREGA, SCSSY, FAS, JGSY, NSAP, JEEVIKA, Indira Awas Yojana, Adult Education Programme, Rural Health and Nutrition Programme, Programme for the Welfare of the Scheduled Castes and Scheduled Tribes, Social Security Pension Scheme and schemes for the rehabilitation of bonded labour and child labour etc. In view of the complex environment in which rural institutions and organizations work today, there is a need for professional management in these organisations. In order to execute the programmes of rural development and welfare, there is an urgent need to create a breed of professional rural managers having sound understanding of the principles and practices underlying rural management and welfare administration.

**FORMATION OF THE DEPARTMENT & ITS OBJECTIVES :**

The Dept. of Rural studies (Rural Management & Development) owes its origin to the academic vision and foresight of Prof. Dr. G.P. Sinha founder Head of the Department and later on Vice-Chancellor, Patna University. It was his tireless effort and firm commitment of rural development which was manifested into commencement of this course as Diploma in Rural Management and Welfare Administration, Patna University. Later, it was the combined effort of Dr. S.M. Raza, the then Head of the Dept. LSW, F.V.C. of Veer Kuer Singh University Ara and Dr. S.N. Ahsan, the former V.C. of Patna University, which resulted in creation of fullfledged M.A. Course of Rural studies, P.U. in 2001. This has been duly recognised by the UGC and the State Govt. By the creation of this Post-Graduate Department of Rural Studies the status of this Course has been raised and more opportunities have been created to prepare a breed of professional rural managers who would be capable of undertaking the challenging responsibilities in rural sector. Through a well-structured course, the faculty intends to equip the students with necessary knowledge, skills, ability, insight and to foster them along sound lines with appropriate values and ethos

After completion of the course the students will be able :

- To understand Rural and Industrial Business, Agro based business, Economic, Social Political, legal and cultural framework of the Rural society.
- To address the challenges with suitable responses for the identified Rural, Industrial and business society.
- Engage in the management of organization (Public & private sectors) community organizations, government organization, skill development.
- To develop professional approach. Rural H.R. Practitioners, legal practitioners in labour law, social development personnel & social welfare field.
- To develop entrepreneurial abilities to linked with 'Make in India', 'Startup India', 'Digital India', 'Entrepreneur related to rural sectors' and 'Health Sector'.
- Different careers options in different field of organizations such as Industry, business, banking, insurance, Finance, NGO's, Micro-finance, marketing, business development, Agriculture, Social Development Sector as well as social welfare sectors and other commercial organization.

Signature of Departmental Committee

Signature of Head

**Note – For any query regarding the format provided the following persons may be contacted**

- 1. Prof. Dolly Sinha, Pro-Vice Chancellor, P.U.**
  - 2. Prof. B.G. Prasad, Head Department of Mathematics, P.U. Convenor, NAAC Cell for Criteria-II**
  - 3. Dr. Stuti Prasad, Department of English, P.U., NAAC Cell Member for Criteria-II**
- NAAC 6**

**NAAC Criteria – II**  
**Name of Programme : P.G. Diploma in Industrial Safety Management**

**Course Outcome**

Kindly provide information in the 'Course Outcome' Column according to the following parameters :

- Academic
- Research
- Applications-Environmental, Social, Scientific
- Employability

**Subject :PGDISM**

**Semester – I**

<u>Sl. No.</u>	<u>Paper/Course</u>	<u>Title</u>	<u>Course Outcome</u>
1	CC-1	<b>Fundamental of Safety Management</b>	Fundamentals of Safety management encompass. The philosophy of accident prevention and the preventive measures. The thrust should be on the welfare of all concerned including workers and technical personnel. Risk management is an arena one cannot ignore. Responsibilities of the management as well as the trade unions must be clearly ear-marked. Ergonomics is another aspect, one should pay heed to.
2	CC-2	<b>Industrial Toxicology, Environmental Pollution &amp; Occupational Health.</b>	A quantitative adverse outcome pathway (QAOP) in biologically based relationship which links molecular initiating events (MIE) to an adverse outcome. The primary source of environmental pollution is the toxic release from industries and is also due to pollution creating activities. Occupational health is a long term work disability. Occupational safety is important with all aspects of physical, mental and social health as well as safety in work place. It is the umbrella for company's efforts to prevent injuries and hazards in all work environments. Every industry presents various kind of safety hazards to its employees.
3	CC-3	<b>Industrial Hazards and Accidents</b>	A very important arena of safety management is the identification of industrial hazards including minimising accidents. An insight into chemical, mechanical, electrical, radiation and construction hazards is a must. Preliminary ideas of locating hazards will be of great benefit. Proper understanding of Bye-laws and codes can help a lot in minimising accidents. Use of personal protective equipments (PPE) can help in prevention of accidents.

**Name of Programme : P.G. Diploma In Industrial Safety Management**

**Course Outcome**

Kindly provide information in the 'Course Outcome' Column according to the following parameters :

- Academic
- Research
- Applications-Environmental, Social, Scientific
- Employability

**Subject : PGDISM  
Semester – II**

Sl. No.	<u>Paper/Course</u>	<u>Title</u>	<u>Course Outcome</u>
1	CC-6	Safety Statistics and Accident Inspection	The mentioned course is divided into five units. After the completion of all these units the student will be able to develop basic skills, basic concepts and problem solving techniques related to statistics. The course will also help the students to apply statistical tools in various applied fields of real life situation. The analytical abilities of the students are enhanced to a great extent which will help them in placement for a job as well in situation arising in the job.
2	CC-7	Safety Legislations, Codes and Compensation	This course is covered legal aspect of industrial safety and to regulate relations between employer and employees in industry. Safety legislation which bears the present industrial, economic and social objectives of the nation and deals with current labour problems. Safety legislations, codes and compensation are to be properly understood as there are important pillars of safety management. Safety legislations and codes if not followed may result into accidents, thereby attracting legal problems including compensation to victims and dependents. It also denotes a safety legislation which concerns the welfare of workers. The main purpose of this course is to know constitutional framework of safety legislations (Labour Laws) and its administration. This course will make employers and employees aware regarding the rights, safety, responsibilities, compensation and obligations. This will also create employability being a safety officers or manager and safety practitioners.
3	CC-8	Environment and Disaster Management	In the arena of safety, environment & disaster management play a very important role. Environmental laws are to be abided strictly, otherwise one has to face punishment.

## Name of Programme : P.G. Diploma in Industrial Safety Management

### Programme Outcome

#### Subject :

Kindly provide information in the 'Course Outcome' Column according to the following parameters :

- Academic
- Research
- Applications-Environmental, Social, Scientific
- Employability

The growing industrialisation of the country and increase in the magnitude, complexity and intensity of industrial hazards have made industrial safety a subject of potent concern. The human and material costs of industrial accidents and losses arising here from have been alarming during recent years. Managements are becoming more and more conscious of the preventive as well as curative aspects of industrial safety. Emphasis is increasingly being laid on the appointment of specially trained personnel to man the safety organisations in industrial establishments. The Factories Act, 1948 provides for the appointment of Safety Officers in specified categories of factories. The objective of the Post Graduate Diploma Course in Industrial Safety Management is to provide basic theoretical and practical training in various areas of industrial safety so that those trained may become capable of taking up assignments as Safety Officers in industries. The Course is designed to cover technical as well as non-technical aspects relating to safety in the context of the Indian conditions. Some of the core areas covered are : underlying principles of industrial safety; industrial toxicology; environmental pollution ; occupational health, industrial hazards and accidents; safety organisation and accident prevention; behavioural science with special reference to social and psychological factors. Besides, the students will also be acquainted with the statutory provisions relating to safety in factory establishments in order to ensure smooth and effective compliance of those provisions. Students are also exposed to Workshop training, Fire fighting training and First Aid training. They are also given training in Computer Application. Finally, field-work training in industrial establishments pertaining to industrial safety will make the Course of Industrial Safety Management a job oriented Course intended to develop students to take up assignments as Safety Officers who are in demand in many industrial establishments in the country. The Government of Bihar has recognised this Diploma for the appointment of Safety Officers under the Factories Act and other State Govts., also have been approached for the same.

After completion of the course the students will be able :

- To understand Industrial Business, Economic, Social, Political, legal and cultural framework of the Industrial society.
- To address the challenges with suitable responses for the identified Industrial and business society.
- Engage in the management of Industrial organization (Public & private sectors) community organizations, government organization, skill development.

**Programme Specific Outcome**

**Subject :**

Kindly provide information in the 'Course Outcome' Column according to the following parameters :

- Academic
- Research
- Applications-Environmental, Social, Scientific
- Employability

Signature of Departmental Committee

Signature of Head

**Note – For any query regarding the format provided the following persons may be contacted**

1. **Prof. Dolly Sinha, Pro-Vice Chancellor, P.U.**
2. **Prof. B.G. Prasad, Head Department of Mathematics, P.U. Convenor, NAAC Cell for Criteria-II**
3. **Dr. Stuti Prasad, Department of English, P.U., NAAC Cell Member for Criteria-II**

NAAC 6

NAAC Criteria – II

Name of Programme : **M.A.IN PMIR (PERSONNEL MANAGEMENT AND INDUSTRIAL RELATIONS).**

Course Outcome

Kindly provide information in the 'Course Outcome' Column according to the following parameters :

- Academic
- Research
- Applications-Environmental, Social, Scientific
- Employability

**Subject : PMIR**

**Semester – I**

Sl. No.	Paper/Course	Title	Course Outcome
1	CC-1	Fundamentals of Management	The New Millennium is at the threshold of new opportunities, threats and challenges for business world. The new generation entrepreneur and business aspirants would have equip themselves with modern fundamental principles and practices of management for gaining organisational goal. Hence the paper will provide the basic knowledge and understanding of the subject and will explore academic ,research and employability in new era.
2	CC-2	Labour Legislations and Labour Administration in India	Labour law seeks to regulate relations between an employer and employees. The purpose of this paper is to know the contextual and constitutional framework of labour laws and its administration. This paper will make employers and employees aware about rights ,responsibilities and obligations for smooth running of the industrial organisations and will create employability being a manager, practitioners and for H.R. Fraternity.
3	CC-3	Labour Economics and Environment	In the changing dynamic of global economy, Labour Economics are gradually becoming more complicated and complex. To move towards faster and more inclusive growth , the new dimensions of labour economics is the demand of the new era. The paper is being designed to study labour being is peculiar characteristics, in different economic system and different labour market segments both in organised and unorganised sector. This paper will create a vista area of research and its applications in

Course Outcome

Kindly provide information in the 'Course Outcome' Column according to the following parameters :

- Academic
- Research
- Applications-Environmental, Social, Scientific
- Employability

**Subject :PMIR**  
**Semester – II**

<u>Sl. No.</u>	<u>Paper/Course</u>	<u>Title</u>	<u>Course Outcome</u>
1	CC-5	Industrial Relations	Industrial Relations play a pivotal role in establishing and maintaining the industrial democracy. Globalization of business is having a significant impact on industrial relations practices to be followed by multi-national corporations. The role of actors of industrial relations has changed or forced to change in the present economic scenario. Protection of Labour rights in the present globalizing world in under severe threat. In this context, the paper deals with the emerging pattern of industrial relations in the globalised world and role of the actors of industrial relations and its various dynamics with futuristic way of handling. This paper will create employability in the industrial world, develop academic per suite and research.
2	CC-6	Human Resource Management	Human Resources are key elements of the organisation. After the advent of globalization and expansion of the international business, the HR Professionals of today are experiencing the effects of change. This necessitates that Human Resource Management functions takes new roles and different goals. The paper is designed to study the fundamentals of HRM with consequential changes in people management approaches of organisations and the responses of HR professionals. The outcome of this



			organisations are major parts of business. The study of industrial organisation will develop the basic understanding of business activities and its components. The paper is designed to develop the entrepreneurial ability with a wide vision of "make in India" and "Startup India" and will generate self employment in the country.
6	AEC-1	Life Skill & Skill Development	

Signature of Departmental Committee

Signature of Head

NAAC 2

**Name of Programme : M.A. IN PMIR (PERSONNEL MANAGEMENT AND INDUSTRIAL RELATIONS).**

**Course Outcome**

Kindly provide information in the 'Course Outcome' Column according to the following parameters :

- Academic
- Research

			<p>cultural diversity and make able to cope with the changes. The development of HRD in global business made the global business to design distinct human resource programmes to manage human resources of their concerns efficiently. The paper will develop wide field of research and employability is global business in changed dynamics.</p>
3	CC-12	Wage and Salary Management	<p>Compensation (Wages &amp; Salary) is the amount of remuneration paid to an employee by the employer in return the employee's services to the company. Compensation is extrinsic reward for an employee. Wage and salary management function is more critical and complex functions of management, as the salary and benefits levels vary from organisation to organisation and country to country. Cost of living varies widely among countries. Hence, this paper is designed to study the components of wages and salary, the intrinsic and extrinsic rewards with respect to national and international business organisations. The study of this subject will develop research applicability and employability is various persule.</p>
4	CC-13	Computer Application and Information System	<p>The third Industrial revolutions is Informational Technology. With the advent of IT and digitalisation of the country, Computer application is integral part of our curriculum. We cannot imagine life without computer and IT. To handle the global business skill and knowledge with proficiency, computer application is highly required. Computer &amp; IT has no end and will explore new area of research &amp; innovation. IT knowledge and application will generate employability in various field.</p>
5	CC-14	Business Ethics and Values	<p>Business ethics now occupies a centre stage in management education.</p>

1	EC-1	Dissertation (Based on field work/Inplant Training)	The purpose of this paper is to develop practical experience and knowledge of organisations / Industry. The interactions with professionals, managers, practitioners employers, and entrepreneurs will develop confidence and ability to handle the situation and manage the organisations.
2	EC-2	Viva Voce (Based on dissertation and theoretical aspects of various papers)	The purpose of this paper is to assess the quality of mind and knowledge, experiences of the students which he has acquired during the course periods. This will develop the confidence level of these students and build up their mind and personality.
3	DSE-1	Finance & Marketing Management (With Case Study)	Finance is the life blood of the organisations. Finance management aims to assist the reader to develop a thorough understanding of the concepts and theories underlying financial management in a systematic way. To accomplish this purpose the recent thinking in the field of finance has been presented in this syllabus. Marketing is not only an indispensable tool in the hands of business executive but it has also become an essential technique in the hands of consumers. The paper is designed to make an attempt to provide fundamental knowledge and understanding of marketing. The designed course will develop the skill knowledge and understanding of finance and marketing which will create employability and research in business world.
4	GE-1	Labour Planning & Social Institutions (With Case Study)	Labour is one of the most sensitive and active factors of production, suffering a lot due to growing complexities. Labour problems and social problems are most critical issues of the present economy. To safeguard the interest, to make protection to provide social security and to lead a decent life and decent work. Labour planning & social institutions have to play a vital role. The Government policy and programme will be beneficial to handle the complexities. Hence the

trained in the Department get preference in employment for jobs connected with labour welfare, personnel management, industrial relations, human resource development, labour administration, social welfare etc. The course avoids, extreme specialization and yet provides the trainees special knowledge of the subjects connected with personnel management, industrial relations and labour and social welfare. The student of the Programme are may employed in various capacities in different industry, organizations and government departments in different parts of the country and many of them are holding top positions in the fields of personnel management, industrial relation, administration, and human resource development in both public and private sectors including multinationals.

After completion of the course the students will be able :

- To understand Industrial Business, Economic, Social Political, legal and cultural framework of the Industrial society.
- To address the challenges with suitable responses for the identified Industrial and business society.
- Engage in the management of Industrial organization (Public & private sectors) community organizations, government organization, skill development.
- To develop professional approach, H.R. Practitioners, legal practitioners in labour law & social welfare field.
- To develop entrepreneurial abilities to linked with 'Make in India', 'Startup India' and 'Digital India'
- Different careers options in different field of organizations such as Industry, business, banking, insurance, Finance, NGO's, Micro-finance, marketing, business development, Agriculture and other commercial organization.
- To make students, professionally equipped skilled knowledgeable and responsive towards business profession, organizations, society community and government.

Signature of Departmental Committee

Signature of Head

**Note – For any query regarding the format provided the following persons may be contacted**

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2. **Prof. B.G. Prasad, Head Department of Mathematics, P.U. Convenor, NAAC Cell for Criteria-II**
3. **Dr. Stuti Prasad, Department of English, P.U., NAAC Cell Member for Criteria-II**

NAAC 6

NAAC Criteria -II

Name of the Department: P.G. Department of Sociology Name of Programme: M.A. in Social Work

Course Outcome

Kindly provide information in the 'Course Outcome' Column according to the following parameters:

- Academic
- Research
- Applications- Environmental, Social, Scientific
- Employability

Subject: M.A. IN SOCIAL WORK

Semester- I

Sl. No	Paper/Course	Title	Course Outcome
1	CC-1 MA(SOW)	History & Philosophy of Social Work	This course appraises the students with the historic importance of the subject and the humanitarian, welfarist and philanthropic importance of the subject
2	CC-2 MA(SOW)	Sociology for Social Work	This course makes the students better in understanding and comprehending the nature of Group, Community and Society better where they are suppose to work practically.
3	CC-3 MA(SOW)	Research Methodology in Social Work	This paper makes the students sound in carrying out researches and innovation.
4	CC-4 MA(SOW)	Statistics and Computer Application	This course enables the students with skills to analyse the facts by applying various statistical tools and computers.

Signature of Departmental Committee



19/12/19

Signature of Head

19/12/19

P.G. Department of Sociology,  
Patna University Patna-5

Name of the Department: P.G. Department of Sociology Name of Programme: M.A. in Social Work

Course Outcome

Kindly provide information in the 'Course Outcome' Column according to the following parameters:

Academic

- Research
- Applications- Environmental, Social, Scientific
- Employability

Subject: M.A. IN SOCIAL WORK  
Semester- II

Sl. No	Paper/Course	Title	Course Outcome
5	CC-5 MA(SOW)	Social Case Work	This course is qualitative and intensive nature which enables the students to handle uniqueness of the subjects.
6	CC-6 MA(SOW)	Human and Social Development	This course gives a balanced understanding of concept of development and human development which in turn, adds value to the degree of social work on the basis of which students are preferred in different kinds of developmental projects.
7	CC-7 MA(SOW)	Social Work with Groups	This course has great academic value in clarifying the fundamentals of the entire subject. It is also helpful to understand Indian Society in holistic ways and demystifying the myths generated by western world.
8	CC-8 MA(SOW)	Social Work with Communities	This course has both academic value as well as application for understanding community problems and formulating proper policies. It is also employable in various kinds of government & Non-government programmes of communities development
9	CC-9 MA(SOW)	Human Resource Management	This course has both academic and application value in understanding the relationship between industry and society and sorting out problems related with the workers as well as entrepreneurs.

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19/11/19

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19/11/19

Name of the Department: P.G. Department of Sociology Name of Programme: M.A. in Social Work

Course Outcome

Kindly provide information in the 'Course Outcome' Column according to the following parameters:

- Academic
- Research
- Applications- Environmental, Social, Scientific
- Employability

Subject: M.A. IN SOCIAL WORK  
Semester- III

Sl. No	Paper/Course	Title	Course Outcome
10	CC-10 MA(SOW)	Social Policy and Planning	Understanding the problems of society which ultimately helps the policy makers to formulate productive and sustainable developmental policies and planning.
11	CC-11 MA(SOW)	Human Rights and Social Legislation	This course develops the understanding among the students about the universal human rights and the related legislation protecting their rights.
12	CC-12 MA(SOW)	Social Pathology and Population Studies	This course has great application values in understanding the pathological problems of our society and finding their solutions. It has also devotes its valuable role in the understanding of the problems related to population explosion and suggesting proper policies and programmes to check the rapid growth of Indian population.
13	CC-13 MA(SOW)	Rural Development	This course has both academic value as well as application for understanding rural problems and formulating proper policies. This is also employability in various kinds of programmes of rural development.
14	CC-14 MA(SOW)	Urban Development	This course has also academic and application values in understanding problems arising out of urbanisation and fighting out the related pathologies. It is also very relevant for urban planning so far as the job of town planning and cluster planning etc. are concerned.

Signature of Departmental Committee

Signature of Head

  
19/7/19

  
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19/7/19  
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Name of the Department: P.G. Department of Sociology Name of Programme: M.A.

Course Outcome

Kindly provide information in the 'Course Outcome' Column according to the following parameters:

- Academic
- Research
- Applications - Environmental, Social, Scientific
- Employability

Subject: M.A. IN SOCIAL WORK  
Semester- IV

Sl. No	Paper/Course	Title	Course Outcome
15	EC-1	Field Work based Dissertation	This has great research & application value where students apply their academic knowledge in studying particular problems.
16	EC-2	and Viva-Voce	This has also research value but more importantly helps in assessing the expressive potential of the students.
17	DSE-1	Social Work and Disaster Management	This course has huge application value in present scenario where continuous attack of natural calamities like earthquake, flood, storm & Tsunami occurs all around the world. It is also helpful to create awareness about the management of natural calamities to reduce minimum loss of property and human life.
	GE-1	I.T. Skill Development	This course makes students more aware and skilled in the field of information technology. Through practical training programme they become updated about the new softwares which are helpful to access the world of new knowledge.

  
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HNAAC. 4

OR GE-1	Understanding Families and Children	This paper is helpful to express the knowledge about the present crisis of family facing after industrial revolution. Presently problems related with the nursing of children as well as caring of elderly persons and other vulnerable groups are also being studied in this course.
OR GE-1	Industrial Relation	This course has both academic and application value in understanding the relationship between industry and society and sorting out industrial problems.

Signature of Departmental Committee



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*Signature*  
19/11/19

**Head**  
P.G. Department of Sociology  
Patna University, Patna-5

Name of the Department: P.G. Department of Sociology Name of Programme: M.A. in Social Work  
Programme Outcome

Subject: Social Work

Kindly provide information in the 'Programme Outcome' Column according to the following parameters:

- Academic
- Research
- Applications- Environmental, Social, Scientific
- Employability

Social Work has emerged world over as an important academic discipline to grasp and grapple with a variety of challenges unleashed by the forces of change like industrialization, urbanization and globalization etc. Naturally this entails continuous urgency of research to come in terms with a sound understanding of the arising socio-economic and culture problems. So far skill is concerned; this discipline has a great interface with the modern soft skill of establishing meaningful and effective communication and rapport as well as generating other skills like developing proper tools or scale to measure socio-psychological parameters. This subject has a wide range of employability — very high in demand from governmental, non-governmental and industries as professionals where social work students get priority over other disciplines.

Signature of Departmental Committee



Signature of Head



P.G. Department of Sociology  
Patna University, Patna-5

NAAC. 6

Name of the Department: P.G. Department of Sociology Name of Programme: M.A. in Social Work  
Programme Specific Outcome

Subject:- Social Work

Kindly provide information in the 'Programme Specific Outcome' Column according to the following parameters:

- Academic — Understanding and analysing the vast range of socio-cultural and economic world from the perspective of an applied discipline.
- Research — To plough through the arising challenges as well as existing problems of the society to generate valid facts and add to the existing body of knowledge.
- Applications- Environmental, Social, Scientific — A huge role of social activist & workers in assessing social cost any mega project and suggesting variable alternative.
- Employability — The student of social work are high in demand as professional from Governmental non-governmental, NGOs and industries in the field of policy making change and reform.

Signature of Departmental Committee

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2. Prof B. G. Prasad, Head Department of Mathematics, P.U, Convenor, NAAC Cell for Criteria-II
3. Dr. Stuti Prasad, Department of English, P.U, NAAC Cell Member for Criteria-II.



19/7/19

  
Signature of Head  
Head

P.G. Department of Sociology  
Patna University, Patna-5

## **Criterion 1**

### **Curricular Aspects**

**Name of the Programme - MA Political Science**

**Programme Outcome - To develop Thinking and the Capacity to reflect upon socio - political issues.**

**Specific Outcome - To enable them to comprehend the Indian & Contemporary global Politics.**

### **Course Outcome**

**1) MPOLCC1 Political Theory**

To develop critical understandings of theory and debates

**2) MPOLCC2 Western Thought**

To enable students to assess the scope of western philosophy

**3) MPOLCC3 Comparative Politics**

To enable students to analyze the various forms of government

**4) MPOLCC4 International Relations**

To make students comprehend power equation between the countries.

**5) MPOLCC5 Public Administration**

To make students comprehend power equation between the countries

**6) MPOLCC6 Foreign Policy of Major Powers**

To make students understand the basic ethos of foreign policy.

**7) MPOLCC7 Issues in International Relation**

To make students aware of contemporary issues and global concerns

**8) MPOLCC8 Indian Political Thought**

To enable students to understand the Indian school of thoughts

**9) MPOLCC9 Political Process and Governance in India**

To orient students towards input and the output of the political system

**10) MPOLCC8 Indian Political Thought**

To create awakened citizenry

**11) Research Methodology**

To develop skills to validate fact finding method

**12) State Politics**

To make students understand regional aspirations as a vital component of National politics.

**13) India's Foreign Policy**

To understand the National Interest

**14) Political and Social Movement**

To make students aware about the social and political development

**15) International Law**

To promote among students the importance of peace and fraternity

**16) Indian Administrative System**

To make students understand bureaucracy and relations with political masters



मनोविज्ञान विभाग, पटना विश्वविद्यालय  
पटना - 800 005

Ph. : 0612 - 2660053

UNIVERSITY DEPARTMENT OF PSYCHOLOGY  
PATNA UNIVERSITY, PATNA - 800 005

Ref. No.: .....

Date: 12-07-19

To,  
The Coordinator NAAC,  
Patna University, Patna.

Sub: Programme outcome of M.A. Psychology and PGDHRD.

Sir,

I am submitting herewith programme outcome of M.A. Psychology and Post Graduate Diploma in Human Resource Development ( PGDHRD ) for your kind consideration and necessary action.

Thanking You,

Sincerely Yours

*Hossain*  
12/07/19  
(Md. Iftekhar Hossain)

*12-7-19*

**DEPARTMENT OF PSYCHOLOGY**

**PATNA UNIVERSITY, PATNA**

***PROGRAMME OUTCOME***

***PROGRAMME SPECIFIC OUTCOME***

***COURSE OUTCOME***

***OF***

***M.A. Psychology***

*Hossain*  
11/07/19  
Head  
Deptt. of Psychology  
Patna University, Patna



**Name of the programme : M.A in PSYCHOLOGY**

**Programme code: M.A Psy**

**Programme specific outcome (PSO):**

**PSO1: It is a multi faceted discipline that includes the study of cognitive processes ,human development, clinical and social behavior. A better insight into the behaviour gives it an edge in dealing with problems like drug addition, suicide, depression, child abuse, teenage violence, aggression among youth etc.**

**PSO2: Develops an understanding of application of Behavior Modification techniques in promoting socially desirable behavior and eliminating all sorts of undesirable behavior, right from bad habits to criminal behaviour.**

**PSO3: Besides research and teaching, this course facilitates entry into various professions, such as counsellor, psychotherapist psychometrician, clinical psychologists, human resource management, consumer psychologists, health psychologists, rehabilitation psychologist etc.**

**Course outcome (CO) of selected courses (in semester system):**

**Course code: CC 1**

**Course: ADVANCED GENERAL PSYCHOLOGY**

**CO1: Develop different aspects and causes of behavior and other psychological processes.**

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Dept. of Psychology  
Panna University, Panna

**CO2:** At the end of the course, students will get to know about the human behavior and mental processes and allow themselves to better understand how others think act and feel.

**Course code: CC 2**

**Course: ADVANCED SOCIAL PSYCHOLOGY**

**CO1:** Develop learning skills for social interactions and behavior in social settings.

**CO2:** At the end of the course, students obtain an advanced understanding of relevant concepts, issues and methods in Social Psychology and apply the same in social and institutional frameworks.

**Course code: CC 3**

**Course: RESEARCH METHODOLOGY**

**CO1:** Develop the different aspects and techniques of research methodology

**CO2:** At the end of the course, students obtain the knowledge of research problem, hypothesis, research designs, sampling methods, scaling, test construction, reliability, validity, norms, data collection techniques and report writing.

**Course code: CC 4**

**Course: EXPERIMENTS IN PSYCHOLOGY**

**CO1:** Develop the skill of doing experiments

**CO2:** At the end of the course, students will be able to conduct experiments. Also they will have the knowledge of purpose, design, apparatus, arrangement of experiment, controlling variables and interpretation.

**Course code: CC 5**

**Course: COGNITIVE PSYCHOLOGY**

- CO1:** Develop skill of understanding how people diagnose, realize, perceive, evaluate and consider/think.
- CO2:** At the end of the course, student will gain an understanding of other people and their thought processes. Cognitive psychology covers areas such as language, learning and memory, speech, and the storage and recall of information. Behaviours occur as a result of how information is received and interpreted, and individual differences can vary greatly from one person to the other.

**Course code: CC 6**

**Course: NEUROPSYCHOLOGY**

- CO1:** Develop the knowledge about biological bases of behavior.
- CO2:** At the end of the course, students will be capable to know the effects of brain damage on behavior, and to be able to account for the influences of other factors such as genetic, developmental, emotional, and experiential contributions on cognitive functioning.

**Course code: CC 7**

**Course: PSYCHOPATHOLOGY**

- CO1:** Develop understanding of the various manifestation of psychopathology
- CO2:** At the end of the course, students will be able to develop understanding of the various manifestation of the Psychopathology.

Develop understanding of skills required to diagnose various disorder, apply knowledge in etiology and treatment of Psychopathology.

**Course code: CC 8**

**Course: STATISTICS FOR PSYCHOLOGY**

- CO1:** Develop skills of data analysis and interpretation of data.
- CO2:** At the end of the course, students will be able to administer statistical methods in experiments, testing and research in Psychology.

**Course code: CC 9**

**Course: PSYCHOLOGICAL ASSESSMENT**

- CO1:** Develop psychological assessment skills.
- CO2:** At the end of the course, students will be able to administer psychological tests. Interpret the scores obtained, develop a report and make assessment.

**Course code: CC 10**

**Course: HEALTH PSYCHOLOGY**

- CO1:** Develop the ability to examine how biological, social and psychological factors influence health and illness.
- CO2:** At the end of the course, students will be able to understand motivations in the pursuit of embrace health promotion and illness prevention. It concerns them with understanding how psychological, behavioral, and cultural factors contribute to physical health and illness.

**Course code: CC 11**

**Course: COUNSELLING PSYCHOLOGY**

- CO1:** Develop knowledge about importance and applications of counselling.
- CO2:** At the end of the course, students will learn the importance of counseling as it provides the tools and insights to manage mental health issues, such as anxiety and depression.

**Course code: CC 12**

**Course: EDUCATIONAL PSYCHOLOGY**

- CO1:** Develop the concept of Teaching, Learning and Evaluation
- CO2:** At the end of the course, students will learn the goal of teaching, learning and different factors affecting educational process. Also, it will help the students in understanding behavior in the educational setting.

**Course code: CC 13**

**Course: HUMAN RESOURCE MANAGEMENT**

- CO1:** Develops the knowledge of behaviour in an organizational setting.
- CO2:** At the end of the course, students will learn the issues related to compensation, performance management, organizational development, safety, wellness, benefits, employee motivation, training and others.

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Patna University, Patna

**Course code: CC 14**

**Course: GENERAL COUNSELLING SKILLS**

**CO1:** Develop skills about different counseling techniques.

**CO2:** At the end of the course, students will be ready to get the benefit of counseling. Also they will have the knowledge of different counseling techniques.

**Course code: EC 1**

**Course:** CLINICAL PSYCHOLOGY/ORGANISATIONAL BEHAVIOUR/POSITIVE PSYCHOLOGY/PSCOMETRICS/COMPUTER APPLICATION IN PSYCHOLOGY

**CLINICAL PSYCHOLOGY**

**CO1:** Develop the understanding of the historical events of clinical Psychology and application of psychological principles to personal, social and clinical issues.

**CO2:** At the end of the course, students will be able to gain knowledge and experience to work as clinical psychologist, will leave with a scientific and evidence based approach to clinical Psychology.

**ORGANISATIONAL BEHAVIOUR**

**CO1:** Develops understanding of human behavior in an organizational setting.

**CO2:** At the end of the course, students will be able to understand the individual's contribution to organisational behaviour and performance by recognising the importance of personality, perception, attitudes and learning.

## **POSITIVE PSYCHOLOGY**

- CO1:** Develop the skills of accepting, collecting, and using multiple measures of well-being.
- CO2:** At the end of the course, students will be able to enhance the level of well being, happiness and satisfaction.

## **PSCHOMETRICS**

- CO1:** Develop the skills of research methodology
- CO2:** At the end of the course, students will be able to learn the measurement and description of different aspects of Psychology. Also, they will get to learn about Reliability, validity, norms and standardization.

## **COMPUTER APPLICATION IN PSYCHOLOGY**

- CO1:** Develop the knowledge of use of computer skills in Psychology.
- CO2:** At the end of the course, students will be able to learn how to use the techniques of computer in storage and interpretation of data in the field of research and project writing.

**Course code: EC 2**

**Course: CLINICAL PSYCHOLOGY/ORGANISATIONAL BEHAVIOUR/POSITIVE PSYCHOLOGY/PSCHOMETRICS/COMPUTER APPLICATION IN PSYCHOLOGY**

**\*Course outcome of EC 2 is same as EC 1.**

Dept. of Psychology  
2019-2020

**DEPARTMENT OF PSYCHOLOGY**

**PATNA UNIVERSITY, PATNA**

***PROGRAMME OUTCOME***

***PROGRAMME SPECIFIC OUTCOME***

***COURSE OUTCOME***

***OF***

***HUMAN RESOURCE DEVELOPMENT***

***(HRD)***

Hossain  
11/07/19  
Recd  
Dept. of Psychology  
Patna University, Patna



# DEPARTMENT OF PSYCHOLOGY

## PATNA UNIVERSITY, PATNA

### PGD HRD Programme Outcome

PO – The programme will teach the students about the various aspects of human resource in organizations, their psychology, development and management, it will give them knowledge about the HR functions and the legal aspects of industrial relations.

PSO – 1. This programme will produce professionals equipped to take up HR positions in organization.

2. They will be empowered to handle all situations and problems in any organization.

### PGD HRD 101 –Principles

- CO
1. Students will learn the history and objectives of Human resource development.
  2. They will learn about the psychology of the human resource.
  3. They will learn the techniques of human resource planning, recruitment and selection training and appraisal.

### PGD HRD 102 Principles of management

- CO
1. This course will input knowledge about the general principles of management.
  2. It will teach the students techniques of decisions, making, planning, staffing and controlling.

### PGD HRD 103 Applied HRD & Organization Development

- CO
1. This course will provide knowledge about the nature.
  2. It will give students an idea about the importance and techniques of techniques of training, knowledge management and organizational restructuring.
  3. It will teach the students how to build and learning organization.

Hoscarib  
11/07/19  
Head  
Dept. of Psychology  
Patna University, Patna

### PGD HRD 104 Project work

- CO 1. Students will study about HR problems in organizations and prepare a report about any one problem of the organization. They will give a presentation on the solution of the problem.

### PGD HRD 201 Organizational Behaviours

- CO 1. This course gives an idea about the historical and theoretical perspectives of organizational behaviours.
2. It will teach about the psychology of human behaviour in organizations.

### PGD HRD 202 Research Methodology and Statistics

- CO 1. This course is designed to teach students the basics of empirical research.
2. It teaches them the techniques of data collection and statistical data analysis

### PGD HRD 203 Industrial Relations

- CO 1. This course gives the students an idea of the history and present status of Trade Unions in India.
2. It teaches students about the strategies to resolve the industrial conflicts and collective bargaining.
3. It provides knowledge about the various legal provisions pertaining to human resource in organizations.

### PGD HRD 204 Project work

- CO 1. This course will require students to conduct a study of any organization with respect to any one of the HR function and prepare a report based on the study.

*Ho-ssai*  
*11/07/19*

Head  
Dept. of Psychology  
Patna University, Patna

NAAC Criteria -II

Name of the Department P.G. DEPT. OF SOCIOLOGY Name of Programme: M.A.  
Course Outcome

Kindly provide information in the 'Course Outcome' Column according to the following parameters:

- Academic
- Research
- Applications- Environmental, Social, Scientific
- Employability

Subject: M.A. IN SOCIOLOGY  
 Semester- I

Sl. No	Paper/Course	Title	Course Outcome
1	CC-1 MA (SOC)	Principles of Sociology	This course has great academic value in clarifying the fundamentals of the entire subject.
2	CC-2 MA (SOC)	Classical Sociology	This course has huge academic value in enhancing student capability to comprehend the subject matter in multiple ways.
3	CC-3 MA (SOC)	Perspective in Indian Sociology	This course is academically helpful to understand Indian Society in holistic ways and demystifying the myths generated by western writers.
4	CC-4 MA (SOC)	Rural Sociology	This course has both academic value as well as application for understanding rural problems and formulating proper policies. This is also employability in various kinds of programmes of rural development.

Signature of Departmental Committee

  
  
 16/9/19

Head

  
 Signature of Head  
 16/9/19

P.G. Department of Sociology  
 Palna University, Palna-5

Name of the Department P.G. DEPT. OF SOCIOLOGY Name of Programme: M.A.

Course Outcome

Kindly provide information in the 'Course Outcome' Column according to the following parameters:

- Academic
- Research
- Applications- Environmental, Social, Scientific
- Employability

Subject: M.A. IN SOCIOLOGY  
Semester- II

Sl. No	Paper/Course	Title	Course Outcome
5	CC-5 MA (SOC)	Research Method in Sociology	This course has great research value which clarifies that what kind of tools or techniques or research design would be proper in what kind of situation.
6	CC-6 MA (SOC)	Sociology of Population Studies	This course has both academic as well as application values in understanding the problems related to population and suggesting proper policies and programmes.
7	CC-7 MA (SOC)	Gender & Society	This course has both academic and application values in understanding gender related problems and reaching at gender-justice.
8	CC-8 MA (SOC)	Urban Sociology	This course has also academic and application values in understanding problems arising out of urbanisation and fighting out the related pathologies. It is also very relevant for urban planning so far as the job of town planning and cluster planning etc. are concerned.
9	CC-9 MA (SOC)	Crime and Society	This course has also academic and application values in understanding nature and causes of crime and finding out solutions.

  
16/11/19

  
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16/11/19  
NAAC. 2  
Head

Name of the Department P.G. DEPT. OF SOCIOLOGY Name of Programme: M.A.

Course Outcome

Kindly provide information in the 'Course Outcome' Column according to the following parameters:

- Academic
- Research
- Applications- Environmental, Social, Scientific
- Employability

Subject: M.A. IN SOCIOLOGY

Semester- III

Sl. No	Paper/Course	Title	Course Outcome
10	CC-10 MA (SOC)	Theoretical Perspective in Sociology	This course has pure academic valuable in development of comprehensive capacity of the students of Sociology.
11	CC-11 MA (SOC)	Social Problems in India	This course has great application values in understanding the vital problems of any society and finding their solutions.
12	CC-12 MA (SOC)	Industrial Sociology	This course has both academic and application value in understanding the relationship between industry and society and sorting out industrial problems.
13	CC-13 MA (SOC)	Sociology of Change & Development	This course has academic, research and application values especially for a developing society like India.
14	CC-14 MA (SOC)	Sociology of Marginalized Community	This course has academic, research and application values in understanding the problems of the groups & communities at margins and suggesting the ways and means to bring them in the mainstream. It is specially valuable for society like India where Dalits and Women have for long remained at the margin.

Signature of Departmental Committee

Signature of Head

  
16/12/19

  
16/12/19

P.G. Department of Sociology  
Palna University, Patna-5  
Head (16/12/19) NAAC. 3

Name of the Department P.G. DEPT. OF SOCIOLOGY Name of Programme: M.A.

**Course Outcome**

Kindly provide information in the 'Course Outcome' Column according to the following parameters:

- Academic
- Research
- Applications- Environmental, Social, Scientific
- Employability

**Subject: M.A. IN SOCIOLOGY**  
**Semester- IV**

Sl. No	Paper/Course	Title	Course Outcome
13	EC-1	Dissertation	This has great research & application value where students apply their academic knowledge in studying particular problems.
14	EC-2	Dissertation/viva-voce	This has also research value but more importantly helps in assessing the expressive potential of the students.
15	DSE	Political Sociology	This course has academic value in understanding the relationship between polity and society.
16	IDSE	Recent Developments in Sociological Theory	It has academic value in appraising the students with recent development in Sociological Theory.
	DSE	Sociology of Education	This has academic as well as research values in understanding the relationship between social structure and academic system.

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P.G. Department of Sociology  
Palna University, Palna-5

DSE	Sociology of Science Technology & Society	This has great academic and application values which underlines appropriate technology for a particular society.
DSE	Sociology of Policy and Planning	This has application values in suggesting various kinds of policies formulation for solving specific problem facing a society at a particular point of time.
DSE	Sociology of Environment	This has huge application values in suggesting sustainable development and saving the extreme threatened environmental system globally.
DSE	Sociology of Human Rights	This has both academic and application values in understanding and safeguarding basic human rights of the citizens of every society.

Signature of Departmental Committee

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16/3/19

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16/3/19

Signature of Head

*[Handwritten Signature]*  
16/3/19

Head  
P.G. Department of Sociology  
Palna University, Palna-5

Name of the Department P.G. DEPT. OF SOCIOLOGY Name of Programme: M.A.

Programme Outcome

Subject: M.A. in Sociology

Kindly provide information in the 'Programme Outcome' Column according to the following parameters:

- Academic
- Research
- Applications- Environmental, Social, Scientific
- Employability

Sociology has emerged world over as an important academic discipline to grasp and grapple with a variety of challenges unleashed by the forces of change like industrialization, urbanization and globalization etc. Naturally this entails continuous urgency of research to come in terms with a sound understanding of the arising socio-economic and culture problems. So far skill is concerned; this discipline has a great interface with the modern soft skill of establishing meaningful and effective communication and rapport as well as generating other skills like developing proper tools or scale to measure socio-psychological parameters. This subject has a wide range of employability — a very popular subject for competitive examinations and teaching jobs at every level and most recently it has a vital role in assessing the social cost of any mega-project.

Signature of Departmental Committee



Niranjan K  
18/9/19  
Signature of Head

P.G. Department of Sociology  
Patna University, Patna-5NAAC. 6



Name of the Department P.G. DEPT. OF SOCIOLOGY Name of Programme: M.A.  
Programme Specific Outcome

Subject:- M.A. in Sociology

Kindly provide information in the 'Programme Specific Outcome' Column according to the following parameters:

- Academic — Understanding and analysing the vast range of socio-cultural and economic world
- Research — To plough through the arising challenges as well as existing problems of the society to generate valid facts and add to the existing body of knowledge.
- Applications- Environmental, Social, Scientific — A huge role of sociologists in assessing social cost of any mega project and suggesting variable alternative.
- Employability — Wide scope for competitive examinations; teaching jobs at every level and most recently it has a vital role in assessing the social cost of any mega-project. Besides, very crucial role non-state actor (NGOs, Civil Societies, Activism etc.) in the field of policy making change and reform

Signature of Departmental Committee


  
Signature of Head  
Head

P.G. Department of Sociology  
Patna University, Patna-5

Note: - For any query regarding the format provided the following persons may be contacted

1. Prof. Dolly Sinha, Pro Vice Chancellor, P.U
2. Prof B. G. Prasad, Head Department of Mathematics, P.U, Convenor, NAAC Cell for Criteria-II
3. Dr. Smiti Prasad, Department of English, P.U, NAAC Cell Member for Criteria-II.

NAAC.7

  
16/9/19

  
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