

Syllabus

PATNA UNIVERSITY, PATNA

M.A. (ECONOMICS)

SEMESTER- I

CODE : ECO-M 101

MICRO ECONOMIC ANALYSIS

Marks – 70

1. Demand Theory :
 - (a.) Revealed Preference Theory
 - (b.) Revision of Demand Theory
 - (c.) Consumer's Surplus – Hicksian Approach
 - (d.) The Pragmatic Approach to Demand Theory : The Constant Elasticity of Demand Function, The Dynamic Demand Functions, The Empirical Demand Function.
 - (e.) The Linear Expenditure System.
 - (f.) Consumer's choice under Risk and uncertainty : Von Neumann-Morgenstern utility function.
2. Production :
 - (a.) Cobb- Douglas Production Function
 - (b.) CES Production Function
 - (c.) Cost Curves – Traditional and Modern.
3. Price and Output Determination :
 - (a.) Monopolistic Competition: Equilibrium of Firm, Group Equilibrium.
 - (b.) Oligopoly: Kinked Demand curve Analysis, Price Leadership, Cournot's Model of Duopoly.
4.
 - (a.) Bain's Theory of Limit Pricing
 - (b.) Baumol's Theory of Sales Revenue Maximisation
 - (c.) Williamson's Model of Managerial Discretion
 - (d.) Behavioural Model of Cyert and March
5. Theories of Distribution:
 - (a.) Marginal Productivity Theory of Distribution: Recent Development
 - (b.) Modern Theory of Rent
 - (c.) Wage Determination under Collective Bargaining.
 - (d.) Interest: Keynesian Theory and Hicks- Hansen Theory of Interest
 - (e.) Profit : Theories of Profit – Schumpeter, Potential Surprise Theory – Shackle.
6. General Equilibrium Theory : Problems of Existence, Stability and Uniqueness of General Equilibrium, The Walrasian General Equilibrium Model (2x2x2 Graphical General Equilibrium Model)

Books Recommended:

1. Baumol, W.J., Economic Theory and Operations Analysis, Prentice Hall.
2. Chamberlin, E.H., The Theory of Monopolistic Competition.
3. Henderson and Quandt, Micro Economic Theory, A Mathematical Approach.
4. Hicks, J.R., Revision of Demand Theory.
5. Hicks, J.R., Value and Capital.
6. Koutsoyiannis, A., Modern Microeconomics, Macmillan Press, London.
7. Marshall, A., Principles of Economics
8. Robbins, L., The Nature and Significance of Economic Science
9. Robinson, Joan., The Economics of Imperfect Competition.
10. Samuelson, P.A., Foundations of Economic Analysis.
11. Stigler, G.J., The Theory of Price.
12. Williamson, O.E., The Economics of Discretionary Behaviour (Prentice- hall, 1964)
13. Cyert, R.M., and J.G March, A Behavioural Theory of the Firm (Prentice –hall, 1963) .
14. Hal R. Varian : Intermediate Microeconomics (W.W. Norton & Company).
15. Pindyck, Rubinfeld, Mehta : Microeconomics (Pearson, Prentice Hall).

Syllabus

PATNA UNIVERSITY, PATNA

M.A. (ECONOMICS)

SEMESTER- I

CODE : ECO-M 102

MACRO ECONOMIC ANALYSIS

Marks – 70

1. Theories of Employment and Output determination- Keynesian and Post Keynesian.
2. Theories of Income-Consumption Relationship:-
 - (a.) Relative Income Hypothesis
 - (b.) Permanent Income Hypothesis
 - (c.) Life –Cycle Hypothesis
3. Investment Function-Recent Developments
4. Simple Investment Multiplier, Dynamic Multiplier, Accelerator and Super multiplier.
5. Restatement of the Quantity Theory of Money (Milton Friedman)
6. Post- Keynesian Theory of Demand for Money : Don Patinkin, Baumol and Tobin.
7. Keynesian and Monetarist Approaches to Inflation; Structural Theory of Inflation. Inflation and Unemployment : Phillip Curve Analysis, (Long run).
8. Introduction to New classical economics.
9. Introduction to New Keynesian Economics.

Books Recommended:

1. Allen, R.G.D., Macro Economic Theory
2. Hansen, A.H., A Guide to Keynes
3. Hansen, A.H., Monetary Theory and Fiscal Policy
4. Johnson, H., Essays in Monetary Economics
5. Johnson, H., Further Essays in Monetary Economics
6. Keynes, J.M., The General Theory of Employment, Interest and Money
7. Klein L., Keynesian Revolution
8. Kurihara, K., Introduction to Keynesian Dynamics
9. Kurihara, K., Monetary Theory and Public Policy
10. Patinkin, Don., Money, Interest and Prices
11. CMIE Report: various Issues
12. Dornbusch, Fisher & Starta- Macroeconomics (TMH)
13. Shapiro E., Macroeconomic Analysis (Galgotia Publications).

Syllabus

PATNA UNIVERSITY, PATNA

M.A. (ECONOMICS)

SEMESTER- I

CODE : ECO-M 103

PUBLIC ECONOMICS

Marks – 70

1. Classical, Keynesian and Modern approaches to Public Finance – Functional Finance.
2. Principle of Maximum Social Advantage.
3. Theory of Social Goods – Samuelson- Private and Merit Goods.
4. Public Expenditure- Wagner’s Law of Increasing State Activities, Peacock- Wiseman Hypothesis.
5. Public Revenue- Taxation, Incidence of taxation, Taxable Capacity.
6. Value Added Tax (VAT), CENVAT, GST
Recommendation of Chelliah Committee
Recommendation of Kelkar Committee
7. Public Debt- Burden of Public Debt, Repayment of Public Debt
8. Budget : Budgetary Process, Balanced and Unbalanced Budget, Zero-Base Budgeting, Performance Budgeting
9. Fiscal Federalism, Sarkaria Commission Report, Current Finance Commission
10. Financial Administration and Financial Control in India

Books recommended:-

1. Dalton, H., Public Finance
2. Jha, R., Modern Public Economics, Routledge, London, 1998
3. Hicks, U., Public Finance
4. Musgrave, R.A and Musgrave , P.B., Public Finance in Theory and Practice
5. Musgrave, R.A., The Theory of Public Finance
6. Pigou, A.C., Public Finance
7. Taylor, P.E., The Economics of Public Finance
8. Report of the Chelliah Committee
9. Report of the Kelkar Committee
10. Finance Commission Reports.
11. CMIE Reports

Syllabus

PATNA UNIVERSITY, PATNA

M.A. (ECONOMICS)

SEMESTER- I

CODE : ECO-M 104

MATHEMATICAL METHODS

Marks – 70

1. Rules of Differentiation, Partial Differentiation, Maxima and Minima (one variable and two variables cases), Applications of Simple and Partial Derivatives in economics. Concept of MC, MR, MU etc. elasticity of demand; Equilibrium of firm under perfect competition, monopoly and price discrimination.
2. Integration - Basic Rules of Integration; Definite Integration, Applications of Integration in Economics - Derivation of total functions from marginal functions, consumer's surplus, producer's surplus, capital formation.
3. Matrices and Determinants : Determinants, Properties of Determinants, Solution of Simultaneous Equation through Cramer's Rule; Concept of Matrix, types, Operations on Matrices, Inverse of a Matrix, Rank of a Matrix, Solution of simultaneous equations through Matrix Inversion Method and Gauss Elimination Method.
4. Input - Output Analysis : Meaning, Basic Concepts, The open and closed Models, The Static and Dynamic Models.
5. Linear Programming : Basic concepts, Formation of a linear Programming problem - its structure and variables, Nature of Feasible and Optimal Solution, Solution of Linear Programming Problem through Graphical Method.
6. Game Theory - Zero sum and non zero sum game.

Books recommended:-

1. Allen, R.G.D., Mathematical Analysis for Economics (1938).
2. Yamane, Taro., Mathematical for Economics, Prentice Hall.
3. Chiang, A.C., Fundamental Methods of Mathematical Economics.
4. Madnani & Mehta : Mathematics for Economists
5. Allen, R.G.D., Mathematical Economics.
6. Monga, G.S., Mathematical and Statistics for Economics.
7. Koutsoyiannis, A., Modern Microeconomics.
8. Archibald, G.C. & R.G. Lipsey : An Introduction to A Mathematical Treatment of Economics.

Syllabus

PATNA UNIVERSITY, PATNA

M.A. (ECONOMICS)

SEMESTER- II

CODE : ECO-M 201

DEVELOPMENT ECONOMICS

Marks – 70

1. Poverty- Measurement & Identification Issue, Poverty & Under Nutrition, Functional Effects.
2. Inequality- Conceptual Issues & Measurement, Kuznet's Inverted U Hypothesis, Inequality as constraint to growth (Kalecki, Galore-Zeira).
3. Unemployment- Measurement, Types, Alternative Theories, linkages between Unemployment & Poverty.
4. Informal Sector- Determination of its size, Linkage with rest of the economy.
5. Organisation & Rural-Urban Migration : Theories & Empirical Evidences, Rural Urban Linkages.
6. Elementary Idea of Political Economy : The role of state.
7. Development Theories & Approaches :- Rostow's stages of economic growth, Lewisian Model, Theory of Big Push Theory of Balanced Growth. Schumpeterian & Marxian theory.

Books recommended:-

1. Debraj Ray- Development Economics, Oxford University Press.
2. S. Ghatak- Introduction to Development Economics, Routledge.
3. Meir & Rauch - Leading issues in Economic Development, OUP.
4. Todaro & Smith- Economic Development, Pearson.
5. A.P. Thirdwall- Growth & Development.

Syllabus

PATNA UNIVERSITY, PATNA

M.A. (ECONOMICS)

SEMESTER- II

CODE : ECO-M 202

ECONOMIC PLANNING

Marks – 70

1. Economic Planning: Meaning and Relevance, Planning Commission of India, NITI Aayog.
2. Methods of Economic Planning: Planning by Inducement and Planning by Direction, Democratic Planning; Regional and District Planning, Planning under Neo-Liberalism.
3. Choice of Techniques
4. Investment Criteria
5. Input – Output Analysis
6. Project Appraisal and Cost- Benefit Analysis
7. Public Sector Vs. Private Sector
8. Price Policy of Public Enterprises
9. Privatisation of Public Enterprises and issues of Disinvestment.
10. Inclusive Growth in the context of Planning in India

Books Recommended:-

1. Bettelheim, Studies in the Theory of Planning
2. Dobb, M., An Essay on Economic Growth and Planning
3. Harris, Economic Planning
4. Hansen, A.H., Public Enterprises and Economic Development
5. Jhingan, M.L., Economics of Development and Planning
6. Lange, O., Essays on Economic Planning
7. Lewis, W.A Development Planning
8. Lewis , W.A., Principals of Economic Planning
9. M.I.T., Investment Criteria
10. Robson, W., Nationalised Industry and Public Ownership
11. Sen, A.K., Choice of Technique
12. Turvey, R., Public Enterprises, Penguin
13. Roy, L.M., Arthik Vikas Ke Sidhant Evam Niyojan (Hindi)

PATNA UNIVERSITY, PATNA

M.A. ECONOMICS

SEMESTER- II

CODE : ECO-M 203

HISTORY OF ECONOMIC THOUGHT

Marks – 70

1. Mercantilism, main policies / principles related to precious metals, role of state, balance of trade & role of export.
2. Physiocracy - Natural order, produit net, circulation of wealth etc.
3. Adam Smith
4. David Ricardo
5. Scientific Socialism- Karl Marx
6. Kautilya
7. Dada Bhai Naoroji
8. M.K. Gandhi
9. M G Ranade
10. G K Gokhale
11. B.R. Ambedkar
12. Jawahar Lal Nehru
13. Jai Prakash Narayan

Book Recommended:-

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. Marx, K., Capital Vol. III

10. Schumpeter, A History of Economics Analysis Ten Great Economists
11. Roy, L.M., Arthk Vicharon Ka itihās (Hindi)
12. **Ganguli, B.N.** Indian Economic Thought Nineteenth Century Perspective, Tata McGraw Hill Publishing Co., New Delhi.
13. **Srivastava, S.K.**, History of Economics Thought, S. Chand & Co. Ltd.
14. **Shama Shastri, R.**, Kautliya's Arthashastra (Translated), Mysore Printing & Publishing House, 1995.
15. **Rangrajan, L.N.**, Kautliya's Arthashastra, Penguin Classics, 1992.
16. **Nehru, Jawaharlal**, Glimpses of World History, Oxford University Press, 1984.
17. **Nehru, Jawaharlal**, An Autobiography, Allied Publishers Pvt. Ltd., 1962.
18. **Lohia, Ram Manohar**, The Caste System
19. **Lohia, Ram Manohar**, Marx, Gandhi and Socialism.
20. **Lohia, Ram Manohar**, Economics After Marx (Hindi)
21. **Singh, Ram Binod**, India's Economics Development and Lohia's Thought.
22. **Kapur, Mastram**, Ram Manohar Lohia, Publications Division, New Delhi
23. **Ranjan, Sudhanshu**, Jayaprakash Narayan, National Book Trust.
24. **Ambedkar, B.R.**, The Evolution of Provisional Finance in British India. 1916
25. **Ambedkar, B.R.**, Small Holdings in India.

Syllabus
PATNA UNIVERSITY, PATNA
M.A. (ECONOMICS)
SEMESTER- II
CODE : ECO-M 204
STATISTICAL METHODS

Marks – 70

1. Review of Method: Measures of Central Tendency and Dispersion, Skewness & Kurtosis.
2. Theory of Probability: Definitions of Probability, Addition and Multiplication, Theorems of Probability, Baye's Theorem.
3. Mathematical Expectation – Addition and Multiplication Theorems of Mathematical Expectation.
4. Binomial, Poisson and Normal Distribution - their Mean and Variance, Area properties of Normal Distribution.
5. (a) Correlation : Pearson's Correlation Co-efficient, Rank Correlation, Correlation in Time Series, Partial and Multiple Correlation (up to two independent variables).
(b) Regression Analysis - Methods of Least Squares, Regression Lines, Interpretation of Correlation and Regression Co-efficient.
6. Sampling and Methods of Sampling.
7. Formulation of Null and Alternative Hypothesis, Type I and Type II Errors. Use of Z, t, Chi-square and F-distributions in Hypothesis Testing.
8. Measurement of Inequality and Poverty – Lorenz Curve and Gini co-efficient, Head – Count Ratio, Poverty – Gap Ratio, Sen's Index.

Note : Use of Electronic Calculator will be permitted.

Books recommended:-

1. Gupta, S.C., Fundamentals of Statistics.
2. Jhunjhunwala, Bharat : Business Statistics.
3. Singh, S.P., Statistics : Theory and Practice (Hindi).
4. Enhance, D.N. and Veena Enhance : Fundamentals of Statistics.
5. Monga, G.S., Mathematics and Statistics for Economics.
6. Agarwal, D.R., Quantitative Methods.
7. Spiegel, M.R., Theory and Practice of Statistics, Schaum Series.
8. Croxton, E.F. and Cowden, D.I. Applied General Statistics, Prentice Hall.

Syllabus

PATNA UNIVERSITY, PATNA

M.A. (ECONOMICS)

SEMESTER- III

CODE : ECO-M 301

Marks - 70

INDIAN ECONOMY

1. Structural Transformation of Indian Economy.
2. Population Growth trend, control and Policy.
3. Agriculture :
 - a. New Agricultural Strategy, Need for 2nd Green Revolution
 - b. WTO and Indian Agriculture.
4. Land Reforms – Agrarian Unrest & Crisis (with Special Reference to Bihar)
5. Rural Credit – Commercial Banks and NABARD.
6. Industrial Development: Trend and Problems, Industrial Policy of 1956 & 1991.
7. Development of Infrastructure – Road, Railways and Power
8. Problems of Poverty & Unemployment. (with Special Reference to Bihar)
9. Appraisal of Planning in India , 12th Five year Plan.
10. NITI Aayog (Policy Commission) : Introduction & Functions.
11. Contemporary Issues –
 - a. Economic Reforms
 - b. Energy Crisis
 - c. Micro Financing

Suggested Readings

1. **Kapila, Uma (Ed.)**, Indian Economy Since Independence. Academic Foundation, New Delhi.
2. **Rangrajan, C.**, Select Essays on Indian Economy, vol. I & vol. II, Academic Foundation, New Delhi
3. **Datt, Ruddar and Sundharam, K.P.M.**, Indian Economy, Latest Edition, S.Chand, 2012.
4. **C.M.I.E.** Reports on the Indian Economy.
5. Publications of Central Statistical Organization.
6. Publications of National Sample Survey Organization.
7. Five-Year Plans 11th to 12th Planning Commission, Govt. of India, New Delhi.
8. **Jalan, Bimal (Ed.)**, Indian Economy: Problems and Prospects, Penguin.
9. **Bhalla, G.S.**, Indian Agriculture.
10. **Kapila, Uma, (Ed.)**, Indian economy Since Independence, Academic Foundation, New Delhi, 2010.
11. Publication Division, India (Annual).
12. Yojana (Monthly Journal)
13. Kurukshetra (Monthly Journal)
14. Indian Journal of Agricultural Economics.

Syllabus

PATNA UNIVERSITY, PATNA

M.A. (ECONOMICS)

SEMESTER- III

CODE : ECO-M 302

Marks - 70

ECONOMIC GROWTH

1. Introduction :

- c. : Meaning and Characteristics of Economic Growth.
 - d. Factors affecting Economic Growth: Capital, Labour and Technology.
 - e. Problems of Existence, Stability and Uniqueness of Economic Growth.
2. General features of Classical Theory of Economic Growth.
 3. Neo-classical Growth Models: Meade, Solow-Swan and Phelps, Solow Residuals.
 4. Neo-Keynesian Models : Kaldor, Pasinetti & Joan Robinson.
 5. Technology and Economic Growth: Embodied and Disembodied technical Changes, Neutrality of Technical Change, Hicks,-Harrod Model & Solow Model.
 6. Ramsey Model of Economic Growth.
 7. Endogenous Growth Model : AK Model, Romer and Lucas Model, Classical, The model of convergence.

Books recommended:-

6. Bagchi, A.K., The Political Economy of underdevelopment, CUP
7. Baran, Paul A., The Political Economy of Growth, Penguin Books
8. Chakravarti, S., Alternative Approaches to the Theory of Economic growth
9. Chew, S.c and Denmark, R.A (Eds.), The Underdevelopment of Development, Sage Publication, New Delhi, 1996
10. Higgins, Benjamin, Economic Development, Central Book Depot, Allahabad
11. Meier and Baldwin, Economic Development
12. Meler, G.M., Leading issues in Economic Development 1999, OUP
13. Sen, A.K (Ed.), growth Economics, Selected Reading, Penguin
14. Todro, M.P., Economic Development, 2000, Addison, Wesley, Longman
15. Thirlwall, A.P., Growth and Development.
16. Roy D., Development Economics (OUP).

Syllabus

PATNA UNIVERSITY, PATNA
M.A. (ECONOMICS)
Semester - III
Code : Eco - M 303

Marks -70

ECONOMICS OF WELFARE, SOCIAL SECTOR AND ENVIRONMENT

1. Economic Welfare- concept, measurement and determinants.
2. Pigovian Welfare Economics- allocation of resources and the concepts of 'optimum' and 'the optimum'.
3. Pigovian Welfare Economics - Divergences between marginal social net product and marginal private net product.
4. The Pareto Criterion.
5. The Kaldor and Hicks' Criteria.
6. The Scitovsky Double Criterion.
7. The Bergson Criterion.
8. Arrow's Theorem on Democratic Group Decisions.
9. Amartya Sen's Theory of Entitlement.
10. Role of education in economic development and human development.
11. Role of health in economic development and human development.
12. Environment and Sustainable Development.
13. Environmental of planning and development in India.

Suggested Readings

1. Pigou, A.C., The Economics of Welfare, Fourth Edition, The ELBS & Macmillan & Co. Ltd. London, 1961.
2. Little I.M.D, A Critique of Welfare Economics, Second Edition, Oxford University Press, 1957.
3. Winch, D.M., Analytical Welfare Economics, Penguin, 1973.
4. Baumol, W.J., Economic Theory and Operations Analysis, Third Edition, Prentice/ Hall International, Inc., 1979.
5. Arrow, Kenneth, J., Social Choice and Individual Values, Cowles Commission Monograph No. 12, John Wiley and Sons Inc., New York, 1951.
6. Sen, Amartya, Poverty and Famines, Oxford University Press.
7. Haque, Mahbub UI, Reflections on Human Development, Expanded Edition, Oxford University Press, 2000.
8. Blang, M. (Ed.), Economics of Education, The ELBS, 1971.
9. Sachs, J.D., Macro Economics and Health, World Health Organization, Geneva, 2001.
10. Hanley, Nick, Shorgren, J.F. & White, Ben, Environmental Economics in Theory & Practice, Macmillan, 1977.
11. Eugene, T., Environmental Economics, Vrinda Publications (P) Ltd., 2004.
12. Kolstad, Charles D., Environmental Economics, Oxford University Press, 2004.

Syllabus
PATNA UNIVERSITY, PATNA
M.A. (ECONOMICS)
SEMESTER - III
Elective I, Group - A, CODE : ECO-M 304

Marks -70

AGRICULTURAL ECONOMICS

1. Definition & scope of Agricultural Economics : Agricultural and Rural Economics; Peculiarities of Agriculture ; Specialization and Diversification.
2. Role of Agriculture in economic development; Interdependence of Agriculture and Industry, Sustainable Development.
3. Farm organization - subsistence farming and commercial farming, collective farming, co-operative farming.
4. Economics of agricultural production - diminishing returns.
5. Land ownership and tenure system.
6. Farm management - concept and tools of farm management of agricultural products.
7. Price determination of agricultural products.
8. Agricultural marketing - problems, types and structure of agricultural marketing;
9. Determination of agricultural wages, marketable and marketed surplus.
10. Instability of agriculture - types of risks and fluctuations, stabilization measures, crop insurance.
11. Agricultural planning - agricultural planning and development in the former USSR, recent changes in China's agricultural planning and development.
12. Co-operation and development; Principles of co-operation;

Suggested Regarding

1. Cohen, R.L., The Economics of Agriculture, Cambridge Economics Handbook.
2. Taylor, H.C., Outlines of Agricultural Economics, Macmillan
3. Schultz, Theodore W., Economic Organization of Agriculture, McGraw Hill company.
4. Milton M. & Wallace, L.T., Agriculture Economics and Resources Management, Tata McGraw Hill Company.
5. Sadhu, A.N. & Singh, A., Fundamentals of Agricultural Economics, Himalaya Publishing House.
6. Snodgrass, Milton M. & Wallace, L.T., Agriculture, Economics and Resource Management, Prentice Hall of India.
7. Lekhi, R.K. & Singh, Yoginder, Agriculture Economics, Kalyani Publishers.
8. Roy, L.M. Krishi Arthashastra, Nav Vikas Pakashan, Patna.
9. Agarwal, Krishi Athashastra, Rajasthan Hindi Granth Academy.
10. Aziz, Sartaj, Rural Development Learning From China, Macmillan & Company.
11. Mehta, Vonod, Soviet Economic Development Since 1917, Routhedge & Paul
12. Dobb, M., Soviet Economic Development Since 1917, Routhedge & Paul
13. Sharda, V., The Theory of Co-operation, Himalaya Publishing House.
14. Mishra, Jayaprakash, Krishi Arthashastra, Sahitya Bhawan, Agra, 2009.

Syllabus
PATNA UNIVERSITY, PATNA
M.A. (ECONOMICS)
SEMESTER - III
Elective I, Group - B, CODE : ECO-M 304

Marks -70

MONETARY ECONOMICS

1. Money - Price link - Tract to General Theory.
2. Monetarism vs. Keynesianism
3. Role of Monetary policy in economic development.
 - (a). Targets :
 - i. Inflation and Growth
 - ii. Money Supply and Growth
 - (b) Effectiveness of monetary policy / monetary fiscal mix.
 - (c) Crowding out effect and Availability Doctrine
4. Problems of Macro-Economic policy - Rational Expectation hypothesis.
5. Trade Cycle theories of Keynes, Hicks, Friedman Schumpeter and Kaldor.
6. Anti cyclical Measures.

Suggested Regarding

1. Keynes, J.M., The General Theory of Employment, Interest & Money.
2. Keynes, J.M., Treatise on Money, Vols.- I & II.
3. Kurihara, K.K., Introduction to Keynesian Dynamics.
4. Kurihara, K.K., Keynesian Theory of Economic Development.
5. Hansen, A.H., A Guide to Keynes.
6. Hicks, J.R., A Contribution to Theory of Trade Cycle.
7. Harris, S.E., New Economics.
8. Bauer, Stanley, The Economics of Cycle & Growth.
9. Gupta, R.D., Post Keynesian Economics.
10. Hicks, J.R., Critical Essays in Monetary Theory.
11. Frisch, H., Theories of Inflation, Cambridge University, Press.
12. Dornbusch, Fisher & Startz : Macroeconomics, Tata McGraw Hill.
13. Blanchard, Olivier, Macroeconomics, Pearson Education.
14. Haberler, Prosperity and Depression.

Syllabus

PATNA UNIVERSITY, PATNA
M.A. (ECONOMICS)
Semester - III
Elective I, Group - C, Code : Eco - M 304

Marks -70

BASIC ECONOMETRICS

1. Testing of significance : Large & small sample tests.
2. Theoretical Frequency Distributions : Binomial, Poisson and Normal Distributions; their means and variances, use of normal curve table.
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).
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 Multicollinearity.
(c) 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.
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.
6. Analysis of Variance – One-way and Two-way.
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.

Books Recommended : (Valid for Elective I & II of Group-C)

1. Gujarati, Damodar : Basic Econometrics.
2. Kaustsoyiannis, 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 Pub. House).

Syllabus

PATNA UNIVERSITY, PATNA
M.A. (ECONOMICS)
Semester - III
Elective I, Group D, Code : Eco-M 304

Marks -70

FUNDAMENTAL OF ENVIRONMENTAL ECONOMICS

1. Introduction to Environmental Economics: Historical perspective (classical, neo-classical and modern).
2. Interface between Economy, Environment and Development; Environment versus development Controversy.
3. Economics of environmental degradation: Pollution as market failure, Pigovian solutions; Buchanan's theory, Coase Theorem; Detrimental externality and non-convexities in production; Property rights, collective action.
4. Economic Incentives for environmental protection; pollution taxes, subsidies, government spending, tradable permits, refundable deposits, recycling.
5. 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.
6. Theory of Sustainable Development: Rules of sustainable development and Indicators: The Hartwick-Solow approach, Non-declining natural capital stock approaches, The SMS approach, Daly's operational principles, The Common-Perrings model of SD, 'Distance to goal's approach.

Suggested Recommended : (Valid for Elective I & II of Group-D)

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*, Longmann, 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.

Syllabus

PATNA UNIVERSITY, PATNA
M.A. (ECONOMICS)
Semester - III
Elective I, Group E, Code : Eco-M 304

Marks -70

ECONOMICS OF LABOUR

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.
2. Theories of Wage determination- Classical, Neo-Classical, Marginal Productivity and modern theories, Collective bargaining and wage determination- Basic Postulates, Nature of bargaining process, Strategies and tactics, Model of Zeuthen, Dunlop, Ross, Pen and Hicks; 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.
3. Concept of Decent Work : Concept, Measurement and Policy Response, Conditions of Work.
4. Introduction to Labour Statistics, Labour Commission in India : Recommendations of NCEUS.

Suggested Recommended :

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 on 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.

Syllabus

PATNA UNIVERSITY, PATNA

M.A. (ECONOMICS)

SEMESTER- IV

CODE : ECO-M 401

INTERNATIONAL ECONOMICS

Marks – 70

1. Trade and Economic growth : Secular Stagnation Theory or Prebisch - Singer hypothesis
2. Modification and Refinements of Hecksher- Ohlin Theory – Price Equalisation Theorem, Factor Reversal Theorem.
 - a. Intra – Industry Trade - Grubel & Lloyd
 - b. Theory of trade of market imperfections, Krugman & Lancaster
 - c. Linder's Theory, Posner's Technological Gap Theory.
 - d. Kravis Theory of Availability
3. International technology transfer & foreign trade, International Factor Mobility, Wage convergence.
4. Hybrid Exchange Rate Policy, Managed Flexibility of Exchange rate policy and exchange rate policy in practice
5. Adjustment Mechanism of Balance of payment
 - a. Elasticity Approach
 - b. Absorption Approach
 - c. Monetary Approach
6. Foreign Trade Multiplier – Limitations
7. Changing Global scenario and trade barriers, WTO- Recent Developments/ Policies
8. International Liquidity
9. Economic Integration & Regional Groupings - SAARC, Optimum Currency Area.

Books Recommended:

1. Bhagwati, J (Ed.), International Trade, Selected Readings, Cambridge University Press (CUP)
2. Bhagwati, J., Protectionism, Cambridge University Press (CUP)
3. Bhandari, S., World Trade Organisation (WTO) and Developing Countries, 1998
4. Ellsworth, P.T., and Leith, J.C., The International Economy , Macmillan, London
5. Greenway, D., International trade Policy, Macmillan, London
6. Haberler, The Theory of International Trade
7. Kindleberger, C.P., International Economics
8. Ohlin, Inter – Regional and International trade
9. Scammell, International Monetary Policy
10. Soderstern, BO., International Economics , Macmillan , London.

Syllabus

PATNA UNIVERSITY, PATNA

M.A. (ECONOMICS)

SEMESTER- IV

CODE : ECO-M 402

RESEARCH METHODOLOGY & COMPUTER APPLICATIONS

Marks – 70

1. Nature of Economic Reality, Meaning of Scientific Research
2. Methodology of Economic Research, Descriptive, Analytical, Fundamental, Quantitative & Qualitative approaches; Historical Experimental & Ex-Post Facto Research, steps involved in Scientific Research.
3. Formulation of a Research Problem-Steps involved, Aims, Objectives & Hypothesis, Formulation & Types of Hypothesis, Value Neutrality & Power of Hypothesis, Hypothesis Testing.
4. Data, Nature of data, collection of primary & secondary data, preparation of questionnaire-Reliability & Validity.
5. Sampling- Types of Sampling, Determination of Sample size, Sampling procedure.
6. Analysis & Discussion, Report Writing
7. Computer & Its Applications- MS-Word, MS-Excel, SPSS.

Books Recommended:-

1. Kothari R.C., Research Methodology, Methods and Technique.
2. Cooper D. and Schindler P., Business Research Methods (TMH).
3. John W. Best and James V. Kahn : Research in Education.
4. Goode and Heart, Research Method.
5. Jerry W. Willis, Foundations of Qualitative Research : Interpretive and Critical Approaches. (Sage).
6. Emory, C. William, Business Research Methods.
7. Fisher, R.A., Statistical Methods for Research Workers.
8. Ghosh, B.N., Scientific Methods and Social Research.
9. Tandon, B.C., Research Methodology in Social Sciences.
10. Subramanian, N., Introduction to computers.
11. Young, P.V., Scientific Social Surveys and Research (Prentice-Hall).

Syllabus

PATNA UNIVERSITY, PATNA
M.A. (ECONOMICS)
Semester - IV
Code : Eco - M 403

Marks -70

DEMOGRAPHY

- 1. Introduction:** Meaning, scope and importance of Demography; Sources of demographic data; Population and Economic Development.
- 2. Theories of population** — Malthus, Optimum theory of population; Theory of demographic transition; Views of Meadows and Enke on Population.
- 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; Levels and trends in more and less developed countries; Sex and age pattern of mortality; Factors for decline in mortality in recent past.Life table — Construction and uses; Concepts of stationary and stable population
Human Development Index
- 4. Methods of population projection.**
- 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.
- 6. Demographic Data Base in India:** Study of census in India— Methodology and characteristics of census; Nature of information collected in 2011 Census in India; National Family Health Survey and Rapid Household Survey; Changing characteristics of population in India; Population growth rates, trends and regional variations in sex ratio; Age structure of population, foetal, infant and child mortality rates; Maternal mortality rates; Life expectancy; Appraisal of Kerala model; Pattern of Migration and Urbanization in India.
- 7. Population and Development with reference to India:** Population, Economy and Environment linkages —Population and human development issues, Human Development Index.
- 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.

Books Recommended:

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
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.

Syllabus

PATNA UNIVERSITY, PATNA
M.A. (ECONOMICS)
SEMESTER - IV
Elective II, Group - A, CODE : ECO-M 404

Marks -70

INDIAN RURAL DEVELOPMENT

1. Importance of agriculture in the Indian economy :
2. Indian agricultural policy in the Plans.
3. Changes in land utilization pattern ; Cropping pattern - determinants and future of cropping pattern.
4. Pattern of soil conversation in India; Forest, Social forestry. Environment.
5. Food problem in India and food security.
6. Irrigation and flood control in India.
7. Agricultural marketing systems and structure in India- regulated and co-operative marketing.
8. New agricultural strategy - Green Revolution its impact.
9. Land reforms in India - objectives, implementation.
10. Agricultural price fluctuations - agricultural price policy.
11. Agricultural Labour - problems and remedial measures, recommendation of the National Commission on Rural Labour.
12. Rurla credit in India - need and sources, co-operative credit societies, commercial banks, regional rural banks, NABARD.
13. Strategies of rural development - C.D. programme - objectives and evaluation; Democratic Decentralisation- Panchayati Raj System in India.
14. IRDP / SGSY - MNREGS - objectives, implementation and problems.
15. Rural industries - importance and problems.

Suggested Regarding

1. Nanvati, M.B. & Anjaria, J.J., The Indian Rural Prbolem, Indian Society of Agricultural Economics.
2. Tyagi, B.P., Agricultural Economics and Rural Development, J. Nath & Company.
3. Govt. of India, Report of the National Commission on Agriculture, 1976.
4. Govt. of India, Five - Year Plan Documents.
5. Desai, S.S.N., Rural Banking in India, Himalaya Publication House.
6. Kahlon A.S. & Tyagi D.S., Agricultural Price Policy in India.
7. Dutt, Ruddar & Sudharam, L.P.M., India Economy, S. Chand & Company.
8. Govt. of India, Economic Survey (Annual).
9. Govt. of India, Economic Survey (Annual).
10. Bhalla, G.S., Indian Agriculture.
11. Kapila, Uma, (Ed.), Indian economy Since Independence, Academic Foundation, New Delhi, 2003.8
12. Publication Division, India (Annual).
13. Yojna.
14. Kurukshetra. 15. Indian Journal of Agricultural Economic

Syllabus
PATNA UNIVERSITY, PATNA
M.A. (ECONOMICS)
SEMESTER - IV
Elective II, Group - B, CODE : ECO-M 404

Marks -70

INDIAN BANKING AND FINANCIAL INSTITUTIONS

1. Concept, working and role of financial market :
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.
3. Financial Intermediaries :
 - (a) Process of intermediation
 - (b) Commercial Banks : Role, BASEL I, II, III (Brief analysis)
 - (c) Non Banking Financial Intermediaries. : Working & functions.
4. Recent development in banking system in India. :
 - (a) Social Banking
 - (b) Innovative Banking
 - (c) Merchant Banking
 - (d) Venture Capital
5. Development Banking in India.
 - (a) Concept and role of development banks in India
 - (b) IDBI, SIDBI, NABARD
6. Monetary and Credit Policy of R.B.I.
 - (a) Promotional role of R.B.I.
 - (b) Regulatory role of R.B.I
7. Recent banking and financial reforms in India :
 - (a) Main recommendations of Sukhomayy Chakarvati Committee Report
 - (b) Main recommendations of Narsimham Committee Report.

Books recommended :-

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. Report 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).

Syllabus

PATNA UNIVERSITY, PATNA
M.A. (ECONOMICS)
Semester - IV
Elective II Group - C, Code : Eco - M 404

Marks -70

TIME SERIES ECONOMETRICS

1. Time-Series Analysis : Components of Time Series, Measurement of Trend (Linear and non-Linear). Estimation of Exponential Modified exponential, Gompertz Curve Relations and Logistic Curve Relations, Seasonal variations, variate difference method.
2. Time Series Regression & Serial Correlation (Autocorrelation in a Time Series).
3. Time Series Econometrics : Key Concepts, Stationary Stochastic Process, Non-Stationary Stochastic Process, Unit Root Stochastic Process.
4. Spurious Regression, Properties of AR, MA & ARMA Processes.
5. Unit Root Test - Dickey-Fuller (DF) Test, Augmented Dickey-Fuller (ADF) Test, The Phillips-Perron (PP) Unit Root Tests, Unit Root Test Procedure.
6. Transforming Non-Stationery Time Series : Difference Stationary and Trend Stationary Processes.
7. Cointegration - Testing for cointegration (Engle-Granger Test, Durbin-Watson Test), Cointegration and Error Correction Mechanism (ECM).
8. Methods of Forecasting - ARIMA Model (Box-Jenkins Methodology), Vector Autoregression (VAR).

Syllabus

PATNA UNIVERSITY, PATNA
M.A. (ECONOMICS)
Semester - IV
Elective II, Group D, Code : Eco-M 404

Marks -70

ENVIRONMENTAL PROBLEMS AND POLICY ISSUES

1. From problem to Crisis : Trans boundary pollution problem, Global Warming and Climate change, Environmental externalities and international Trade, Trade-related environmental effects, The Developing world perspective, WTO regime and environment.
2. International Environmental Policy and Global Politics : Conventions and treaties, UN Efforts to protect the Environment- Stockholm, Rio, Johannesburg, Agenda-21, OECD Environmental Committee Report, Convention on Biodiversity, Climatic Conventions, Kyoto and after.
3. Environmental Policy in India : Evolution of Environmental Policy, Constitutional provisions, Institutions and Legislations, Market based Instruments, Enforcement and Implementation Issues, Environment Governance, Environmental Impact Assessment. State pollution control boards and local agencies.
4. NGO's and Environment Protection, Role of Civil Society. Macro Economic Policy and Environment : Natural Resources Accounting, Green GDP, Need for Environmental Accounting, from SNA to IEEA.

Syllabus

PATNA UNIVERSITY, PATNA
M.A. (ECONOMICS)
Semester - IV
Elective II, Group E, Code : Eco-M 404

Marks -70

INDIAN LABOUR PROBLEMS

1. Population growth and labour supply- Its impact on socio-economic development, Globalisation and Labour Market.
2. Problems of unemployment in India-types, causes and remedies.
3. Work participation rate in India-Factors determining work participation rate.
4. Characteristics of Indian labour-employment and wages in rural India.
5. Problems of Agricultural labour-remedial measures and Govt. policies, Problems of child labour-dimensions, causes and solutions, women labour-gender and discrimination, casualisation of labour in India.
6. Economic Reforms and its impact on labour in India.
7. Industrial Disputes : Prevention mechanism, Methods of resolving industrial disputes, strikes- causes and impact.
8. Growth of Labour Movement : Growth Pattern and Structure of Labour Unions in India, Achievements and failures of Labour unions.
9. Social Security- Concept, Govt. measures.
10. Labour Laws : Minimum Wages Act, Factories Act, Employees State Insurance Act 1948, Provident Fund and Miscellaneous Provision Act 1952.
11. National Commission on Labour.

Suggested Recommended :

1. G.P. Sinha and P.R.N. Sinha- Industrial Relations and Labour Legislations.
2. R.K. Das- Principles and Problems of Labour Legislation
3. B.K. Bhar- Handbook of Labour Laws.
4. Govt. of India- Reoprt of the National Commission on Labour, Report of the National Commission on Rural Labour.
5. Charles A. Myers- Industrial Relations in India.
6. E.M. Burns- Social Security.
7. ILO- Problems of Social Security.
8. Relevant Acts.
9. Indian Journal of Labour Economics.
10. V.B. Karnik- Indian Trade Union Movement.

M.A. Economics
Department of Economics
Patna University, Patna

SEMESTER-I

1	2	3	4	5	6	7
Code	Course Component	Name of the Course	Credit	Internal Assessment	End Semester Exam	Total Marks
				Marks		
Eco-M 101	Core	Micro Economic Analysis	5	30	70	100
Eco-M 102	Core	Macro Economic Analysis	5	30	70	100
Eco-M 103	Core	Public Economics	5	30	70	100
Eco-M 104	Core	Mathematical Methods	5	30	70	100

SEMESTER-II

1	2	3	4	5	6	7
Code	Course Component	Name of the Course	Credit	Internal Assessment	End Semester Exam	Total Marks
				Marks		
Eco-M 201	Core	Development Economics	5	30	70	100
Eco-M 202	Core	Economic Planning	5	30	70	100
Eco-M 203	Core	History of Economic Thought	5	30	70	100
Eco-M 204	Core	Statistical Methods	5	30	70	100

SEMESTER-III

1	2	3	4	5	6	7
Code	Course Component	Name of the Course	Credit	Internal Assessment	End Semester Exam	Total Marks
				Marks		
Eco-M 301	Core	Indian Economy	5	30	70	100
Eco-M 302	Core	Economic Growth	5	30	70	100
Eco-M 303	Core	Economics of Welfare, Social Sector and Environment	5	30	70	100
Eco-M 304	Elective I	Group A, B, C, D and E	5	30	70	100

SEMESTER-IV

1	2	3	4	5	6	7
Code	Course Component	Name of the Course	Credit	Internal Assessment	End Semester Exam	Total Marks
				Marks		
Eco-M 401	Core	International Economics	5	30	70	100
Eco-M 402	Core	Research Methodology and Computer Applications	5	30	70	100
Eco-M 403	Core	Demography	5	30	70	100
Eco-M 404	Elective II	Group A, B, C, D and E	5	30	70	100

Elective I and Elective II

Group A : Agricultural Economics & Rural Development

Group B : Monetary Economics & Financial Institutions

Group C : Econometrics

Group D : Environmental Economics

Group E : Labour Economics