

# UNIVERSITY OF PUNE

## REVISED SYLLABUS FOR M.A. ECONOMICS SEMESTER COURSE (Course to be started from June 2008)

**The students will have *THREE* Core courses and will have to select *ONE* Non-Core course in each of the two semesters, in M.A. Part I. There will be *Four* courses in each of the two semesters for M.A.**

**(Part I. All the courses will have *FOUR* credits. only for University Department)**

M.A. Part I Semester I		M.A. Part I Semester II	
Core Courses		Core Courses	
EC-101	Micro Economic Analysis I	EC-201	Micro Economic Analysis II
EC-102	Public Finance	EC-202	Indian Public Finance
EC-103	Agricultural Economics	EC-203	Indian Agriculture Problems & Policies

Non- Core Courses (Any one course to be selected)		Non- Core Courses (Any one course to be selected)	
EC-104	Indian Economic Policy	EC-204	Industrial Economics.
EC-105	Labour Economics	EC-205	Rural Development
EC-106	Co-operation : Theory & Practice	EC-206	Computer Application in Economic Analysis.
EC-107	Mathematical Economics	EC- 207	Statistical Techniques
EC-108	Demography.	EC- 208	Community Development and Planning

**UNIVERSITY OF PUNE**  
**M.A. ECONOMICS (PART – I)**  
**Semester Pattern**  
**Revised Syllabus (From June 2008)**  
**Core Course –Semester – I**  
**EC- 101 – Micro Economic Analysis – I**

---

**Topic 1. Introduction:-**

- 1.1 Micro Economics: - Nature, Scope, Importance & Limitations.
- 1.2 Methodology of Economics: - Deductive V/s Inductive.
- 1.3 Economics - Statics & Dynamics
- 1.4 Basic Economic Problems :- Scarcity & Choice
- 1.5 Price Mechanism: - Functions & Limitations.

**Topic 2. Demand Analysis –**

- 2.1 Cardinal Utility Approach - Law of Diminishing Marginal Utility ,  
Consumer's equilibrium, Derivation of Demand Curve, Law of Demand.
- 2.2 Ordinal Utility Approach:- Indifference curve, Properties Consumer's  
equilibrium, Price, income & substitution effects, Derivation of Demand  
Curve.
- 2.3 Revealed Preference Theory of Demand.
- 2.4 Recent Development in Demand Theory :- Hicksian Revised Theory –  
Neumann – Morgenstern Statistical Utility Theory, Armstrong's Marginal  
Preference Theory .

**Topic 3. Consumer Surplus and Elasticity of Demand:-**

- 3.1 Consumer Surplus: - Meaning, Marshall's Measurement of Consumer  
Surplus, Measurement of Consumer Surplus through indifference Curve  
analysis, Critical Evaluation.
- 3.2 Elasticity of Demand :- Meaning, Price Elasticity of Demand,  
Measurement of Price elasticity, Income Elasticity of Demand, Cross  
Elasticity of Demand, Numerical Problems .

**Topic 4. Theory of Production:**

4.1 Supply Analysis: Economies of Scale: - Internal Economies and Diseconomies, External Economies and Diseconomies.

4.2 Production Possibility Curve.

4.3 Production Function :- Law of Variable Proportions

4.4 Returns to Scale.

4.5 Isoquants:- Properties , Producer's equilibrium

4.6 Linear Homogenous Production Function

4.7 Cobb - Douglas Production Function.

### **Topic 5. Cost and Revenue**

5.1 Cost Concepts: - Accounting and Economic Cost, Private Cost and Social Cost, Opportunity Cost, Fixed and Variable Cost, Average, Marginal and Total Cost, Numerical Problems.

5.2 Short Run and Long Run Cost Curves

5.3 Revenue Concepts: - Average, Marginal and Total Revenue, Numerical Problems.

### **Basic Reading List:**

- Stigler G. (1996) Theory of Price, 4<sup>th</sup> Edition, Prentice Hall of India, New Delhi.
- Sen A. (1999) Microeconomics: Theory and Application, Oxford University Press, New Delhi.
- Kreps David M. (1990), A Course in Microeconomic Theory, Princeton University Press, Princeton.
- Samuelson, P.A. and W.O. Nordhaus (1998), Economics, 16<sup>th</sup> Edition, Tata McGraw Hill, New Delhi.
- Verian H. (2000) Microeconomic Analysis, W.W Norton New York.
- Michale Perkin (1996) Economics, 3<sup>rd</sup> Edition, Addison Westey Publishing company, Inc. U.S.A.
- Koutsoyiannis, A. (1979), Modern Microeconomics, 2<sup>nd</sup> edition Macmillan Press, London.
- Layard, P.R.G. and A.W. Walters (1978) Microeconomic Theory, McGraw Hill, New York.
- Ahuja H.L. (2003) Advanced Economic theory : Microeconomic Analysis, 13<sup>th</sup> Edition, S.Chand and Co. Ltd. New Delhi.

- Sen, A/ (1999) Microeconomics: theory and Applications, Oxford University Press, New Delhi.
- Chaturvedi, Gupta and Pal (2002) Business Economics: Text and Cases Galgotia Publishing Company, New Delhi.

### Additional Reading List:

#### **Topic 1:**

- Baumol W.J.(1982) Economic Theory and operations Analysis, Prentice Hall of India, New Delhi.

#### **Topic 2:**

- Baumol W.J.(1982) Economic Theory and operations Analysis, Prentice Hall of India, New Delhi.
- Green H.A.G.(1971) Consumer theory, Penguni Harmonds Worth.
- Henderson, A.M. and R.E. Quandt (1980) Microeconomic Theory. A Mathematical Approach, McGraw Hill, New Delhi.
- Hirshleifer J. and A.Glazer (1997) Price Theory and Applications, Prentice Hall of India, New Delhi.

#### **Topic 3:**

- Da Costa, Go Co (1980) Production Prices and Distribution, Tata MacGraw Hill New Delhi.
- Healthfields and Wibe (1987) An Introduction to cost and Production's Functions, Macmillan, London.
- Hirshleifer J. and A.Glazer (1997) Price Theory and Applications, Prentice Hall of India, New Delhi.

#### **Topics 4 & 5:**

- Da Costa, Go Co (1980) Production Prices and Distribution, Tata MacGraw Hill New Delhi.
- Hirshleifer J. and A.Glazer (1997) Price Theory and Applications, Prentice Hall of India, New Delhi.

\*\*\*\*\*

**UNIVERSITY OF PUNE**  
**M.A. ECONOMICS (PART – I)**  
**Semester Pattern**  
**Revised Syllabus (From June 2008)**  
**Core Course –Semester – I**  
**EC- 102 – Public Finance**

---

**Topic 1. Introduction -**

- 1.1 The Role of the Government in a Changing Perspective
- 1.2 Fiscal Functions of the Government.
- 1.3 Co-ordination among these Functions.
- 1.4 Provision of Private Goods, Public Goods, Social Goods, Merit Goods and Mixed Goods.

**Topic 2. Principles of Taxation –**

- 2.1 Principle of Fiscal Neutrality, Excess Burden, Doctrine Principle of Equity, Benefit Principle, Bowen and Lindhal Models, Ability to pay Principle Administrative Efficiency .
- 2.2 Application of Taxation Principles in Developing Countries.
- 2.3 Meaning, Types and Measurement of Taxable Capacity.

**Topic 3. Impact and Incidence of Taxes**

- 3.1 Meaning of Impact and Incidence
- 3.2 Distinction Between Impact and Incidence
- 3.3 Types of Incidence
- 3.4 Theories of Shifting Incidence
- 3.5 Shifting of Tax Incidence under Different Market Conditions.

**Topic 4. Public Expenditure**

- 4.1 Wagner's Law
- 4.2 Wiseman – Peacock Hypothesis
- 4.3 Pure Theory of Public Expenditure
- 4.4 Social Cost- Benefit Analysis

**Topic 5. Public Debt.**

- 5.1 Classical, Keynesian and Post – Keynesian Approaches of Public Debt.
- 5.2 Classification of Public Debt.
- 5.3 Burden of Public Debt.
- 5.4 Public Debt Management
- 5.5 Repayment of Public Debt.

## Basic Reading List: - Public Finance

1. Richard A. Musgrave (1989), *Public Finance in Theory and Practice* McGraw Hill Book Company, New York.
2. Buchaman J.M. (1970), *The Public Finances*, Richard D. Irwin, Homewood.
3. Jha H. (1998), *Modern Public Economics*, Routledge, London.
4. Singh S.K. (1986) *Public Finance in Developed and Developing Countries*, S.Chand and Company Ltd, New Delhi.
5. Chelliah R.J. (1971), *Fiscal Policy in Underdeveloped Countries*.
6. Hemlata Rao (2006) *Fiscal Federalism –Issues and Policies*, New Country Publications, New Delhi.
7. Atkinson A.B. and J.E. Siglitz (1980). *Lectures on Public Economics*, Tata MacGraw Hill, New Delhi.

## Additional Reading List :

### Topic: 1

- Comes R. and T.Sandler (1986) *The theory of Externalities, Public Goods and Club Goods*, Cambridge University Press, Cambridge.
- Duff L. (1997), *Government and Market*, Orient Longman, New Delhi.
- Friedman A. (1986), *Welfare Economics and Social Choice Theory*, Martins Nighoff, Boston.

### Topic: 2 & 3

- Bird R. And O.Aidman (1967) *Reading on Taxation in Developing Countries*, The John Hopkins University.
- Musgrave R.A. and C. Shoup (ed) (1970), *Reading in the Economics of Taxation*, George Alien and Unwin, London.

### Topic: 4.

- Mishan E.J. (1982), *Cost-Benefit Analysis; An Informal Introduction*, George Alien and Unwin, London.
- Premchand A. (1966), *Control of Public Expenditure in India*, Allied Publishers, New Delhi.

### Topic: 5

- Barman K. (1986) *Public Debt Management in India*, Uppal Publishing house, New Delhi.
- Sreakantaradhya B.s. (1972) *Public Debt and Economic Development in India*, New Delhi.

\*\*\*\*\*

**UNIVERSITY OF PUNE**  
**M.A. ECONOMICS (PART – I)**  
**Semester Pattern**  
**Revised Syllabus (From June 2008)**  
**Core Course – Semester – I**  
**EC-103 Agricultural Economics**

---

**Topic 1. Introduction**

- 1.1 Place of Agriculture in Maharashtra and Indian Economy.
- 1.2 Agricultural Productivity.
- 1.3 Farming as a business or Way of Life.
- 1.4 Agricultural development under five year plans.
- 1.5 Development theory and role of Agriculture.

**Topic 2. Sustainable Agriculture and Food Security.**

- 2.1 Biotechnology- Meaning & scope.
- 2.2 Green Revolution- History & recent development
- 2.3 Recycling – Meaning & Problems.
- 2.4 Organic farming – Present status & Future scope.
- 2.5 Hybrid Seeds- history & scope.
- 2.6 Food security.
- 2.7 Agricultural issues experiences and challenges.
- 2.8 Efficiency of irrigation.
- 2.9 Issues of live stock.

**Topic 3. Agricultural Credit.**

- 3.1 Cooperative credit system, NABARD and Vaidynathan committee
- 3.2 Role of Commercial Banks, Non Agricultural Rural credit institutions.
- 3.3 Self-Help Group – Meaning and Impact.
- 3.4 Agricultural credit – Challenges, opportunities, Strategies.
- 3.5 Unorganized credit system, Role, Problems & Report of Radhakrishna Committee

**Topic 4. Agricultural Marketing.**

- 4.1 Pricing of Agricultural goods in comparison with industrial goods.
- 4.2 Agricultural marketing and price system in India.
- 4.3 Problems of marketing in India.

**Topic 5. Agricultural Management**

- 5.1 Concept, Scope and Principle
- 5.2 Recent trends in Agricultural Management
- 5.3 Problems of Agricultural Management

**Basic Reading List:**

1. C.S. Prasad - Sixty years of Indian Agriculture –New Delhi 2006.
2. Hansra Parumal and Chandrakarn - Modernization of Indian Agriculture in 21<sup>st</sup> century challenges, opportunity and strategies, Concept Publication Co. New Delhi.
3. Hamiltan and Vryant - Profitable firm Management –Preinstall Publication.
4. Norten and Allwinding - The Introduction to Economic and Agricultural Development MacGraw Hill Co. Publication. New Delhi.
5. Wakatash - Development Agricultural Technology, Rawat Publications.
6. Bacan - Water Use Efficiencies in Plant Biology (2004) Blackwell Publications House. London.
7. Datt R. & K.P.M. Sundharm (2007) Indian Economy, S. Chand & Co. Ltd. New Delhi.
8. Misra S.K. & V.K.Puri (2007) Indian Economy – Himalaya Publication house Mumbai.
9. Agrawal A.N. Indian Economy Problems of Development and Planning. 2006.

\*\*\*\*\*

**UNIVERSITY OF PUNE**  
**M.A. ECONOMICS (PART – I)**  
**Semester Pattern**  
**Revised Syllabus (From June 2008)**  
**Non-Core Course –Semester – I**  
**EC- 104 Indian Economic Policy**

---

**Topic 1. Framework of Indian Economy**

- 1.1 Economic policy: An Introduction, Meaning, importance
- 1.2 National income: Trends and Structure of National Income
- 1.3 Demographic features and indicators of Economic Development & Growth, Rural-Urban migration, Indian population policy.
- 1.4 Poverty and inequality, Nature, policy & implications.
- 1.5 Employment and unemployment – Nature, Central and State Government's policies, Policies implications.

**Topic 2. Development Strategies In India**

- 2.1 Agricultural Pricing, marketing & finance policies.
- 2.2 Economic Reforms – Rationale of Economic Reforms, Liberalization, Privatization and Globalisation of the economy.
- 2.3 Role of Public Sector – Redefining the role of public sector, Government policy towards Public sector, problems associated with privatization.
- 2.4 Assessment of Economic Reforms.

**Topic3. The Economic Policy And Infrastructure Development**

- 3.1 Energy and Transport
- 3.2 Social Infrastructure - Education and Health .
- 3.3 Issues and policies in financing infrastructure Development .
- 3.4 Indian Financial System – Money Market and Monetary Policy – financial Sector Reforms – Review of Monetary Policy of R.B.I., Capital Market in India

**Topic 4. The Economic Policy And Industrial Sector**

- 4.1 Industrial Sector in Pre–reforms Period, Growth and Pattern of Industrialization.
- 4.2 Industrial Sector in Post – reform Period – Growth, Pattern and Small Scale Industries.
- 4.3 Labour Market - Issues in Labour Market, Reforms & Approaches to Employment Generation.

**BASIC READING LIST**

1. Ahluwalia.I.J. and I.M.D. Little 1999. India's Economic Reforms and Development.
2. (Essays in Honour of Manmohan Sing), Oxford University Press, New Delhi.
3. Bardhan PK.( 9<sup>th</sup> Edition)(1999) The Political Economy of Development in India. Oxford University Press, New Delhi.

4. Bawa R.S. and P.S. Raikhey (Ed) (1977). Structural Changes in Indian Economy. Guru Nanak Dev University Press, Amritsar.
5. Brahmananda PR and V.A. Panchmukhi (Eds)(2001),Development Experience in Indian Economy, Inter-State Perspectives, Bookwell, Delhi.
6. Chakravariti, S.(1987). Development Planning ; The Indian Experience , Oxford University Press New Delhi .
7. Gupta, S.P.(1989),Planning and Development in India ; A Critique, Allied Publishers Private Limited, New Delhi .
8. Krishnamachari, V.T. (1962); Fundamental of Planning in India, Orient Longmans, Bombay.
9. Bhagwati, Jagdish(2004); In Defense of Globalization, Oxford University Press U.K.
10. ILO(2004);A Fair Globalization, Creating Opportunities for All Report of the World Commission on the Social Dimension of Globalization.
11. Tidsell, Clem and Sen, Raj Kumar (Ed) (2004) Economic Globalization .
12. Government of India, Economic Survey(2004-05)
13. Bhattacharya, Aditya and Marzit, Sugata(Eds)(2004),Globalization and Developing Economies; Theory and Evidence, Manohar, New Delhi.
14. Jha Raghendra (Ed)(2003); Indian Economic Reforms, Hampshire, U.K.
15. Bajpai, Nirupam and Jeffrey, D.Sachs(2000; Fiscal Policy in Indias Economic Reforms (included in India in the Era of Economic Reforms, Edited by Sachs, Varshney and Baijpai) Oxford University Press, New Delhi.
16. Chug, Ram L. and Uppal, J.S.(1985) Black Income in India. Tata McGraw Hill N Sage Publication, New Delhi.
17. Gupta Suraj B.(1992) Black Income in India Sage Publication, New Delhi.
18. Kabra Kamal Nayan and Jagannathan,N.S.(1985), Black Money, India International Centre, New Delhi.
19. Goel, S.L.(2002) Advanced Public Administration, Deep and Deep Publication, New Delhi.
20. Meenakshi,S.(1994) Decentralisation in Developing Countries.
21. Noorjahan, Bava ; People's Participation in Development Administration in India.
22. Dhingra Ishwar C (2006) ; Indian Economy, Sultan Chand & Sons, New Delhi.
23. Datt, Ruddar and Sundaram, K.P.M.(2004); Indian Economy, S.Chand & Co. New Delhi.

**UNIVERSITY OF PUNE**  
**M.A. ECONOMICS (PART – I)**  
**Semester Pattern**  
**Revised Syllabus (From June 2008)**  
**Non-Core Course –Semester – I**  
**EC- 105 – LABOUR ECONOMICS**

---

**Topic 1. Introduction -**

- 1.1 Meaning , Concept , Significance & Peculiarities of Labour.
- 1.2 Nature, Scope & Importance of Labour Economics.
- 1.3 Characteristics of the Indian Labour Market

**Topic 2. Wage Determination -**

- 2.1 Marginal Productivity Theory, Theory of Collective Bargaining, Modern Theory of Wages.
- 2.2 Concept of Minimum Wage and Fair Wage.
- 2.3 Wage Determination in Various Sectors- Rural, Urban, Organized, Unorganized and Informal Sector.
- 2.4 Wages in Relation to Cost and Productivity
- 2.5 Wage Policy in India

**Topic 3. Migration & Absenteeism**

- 3.1 Approaches to Labour Migration , Effects of Migration.
- 3.2 Absenteeism of Industrial Labour in India , Causes , Effects and Remedies of Absenteeism.
- 3.3 Labour Turnover – Causes of Low Labour Turnover in India, Remedies to Improve the Labour Turnover

**Topic 4. Industrial Relations:-**

- 4.1 Growth , Pattern , Structure & Achievements of Labour Unions in India
- 4.2 Causes of Industrial Disputes, their Settlement & Prevention Mechanism.
- 4.3 Role of Tripartism, Current Trends in Collective Bargaining.

**Topic 5. Labour Market Reforms:-**

- 5.1 Measures, Imparting and Flexibility in Labour Markets
- 5.2 Exit Policy

### 5.3 Need of Safety Nets

### 5.4 Second National Commission on Labour, Globalization and Labour Market.

#### **Basic Reading List :-**

- Datt, G. (1966) , Bargaining Power , Wages and Employment : An Analysis of Agricultural , Labour : Markets in India ; Sage Publishers , New Delhi .
- Hajela, P.D. (1998) , Labour Restructuring in India : A Critique of the New Economic Policies , Commonwealth Publishers, New Delhi.
- Jhabvala, R. and R.K. Subrahmanya (Eds.) (2000), The Unorganised Sector : Work Security and Social Protection ; Sage Publications, New Delhi
- Lester, R.A. (1964) , Economics of Labour (2nd Edition), Macmillan, New York.
- McConnell, C.R. And S.L. Brue (1986) , Contemporary Labour Economics , McGraw –Hill , New York.
- Papola , T.S.P.P. Ghosh and A.N. Sharma (Eds.) (1993), Labour , Employment and Industrial Relations in India , B.R. Publishing Corporation , New Delhi.
- Rosenberg M.R. (1988) , Labour Markets in Low Income Countries in Chenery , H.B. and
- T.N. Srinivasan (Eds.) The Handbook of Development Economics North-Holland, New York.
- Venkata Ratnam, C.S. (2001) , Globalization and Labour – Management Relations : Dynamics of Changes , Sage Publications/Response Books , New Delhi.

\*\*\*\*\*

**UNIVERSITY OF PUNE**  
**M.A. ECONOMICS (PART – I)**  
**Semester Pattern**  
**Revised Syllabus (From June 2008)**  
**Non-Core Course –Semester – I**  
**EC- 106 – CO-OPERATION - THEORY & PRACTICE**

---

**Topic 1. Introduction -**

- 1.1 Different definitions of Co-operation.
- 1.2 Nature and Characteristics of Co-operation.
- 1.3 Importance and Benefits of Co-operation.
- 1.4 Principles of Co-operation.

**Topic 2. Co-operative Legislation and Training –**

- 2.1 Co-operative Act of 1904 and 1912
- 2.2 Maharashtra Co-operative Act of 1960
- 2.3 Recent Changes in Co-operative Legislations
- 2.4 Co-operative Training – Need, Objectives and Problems

**Topic 3. Co-operative Audit and Training –**

- 3.1 Definition and Objectives of Co-operative Audit
- 3.2 Types of Co-operative Audit.
- 3.3 Functions of Co-operative Auditor
- 3.4 Co-operative Audit System - Weaknesses and Suggestions.
- 3.5 Co-operative Supervision – Need and Suggestions

**Topic 4. Co-operative Movement –**

- 4.1 History and Growth of Co-operative Movement in India, it's Weakness and Suggestions.
- 4.2 Co-operative Sugar industry in Maharashtra- Growth, Problems, Suggestions.
- 4.3 Rural Co-operative Credit Structure , Primary Agricultural Credit Co- operative Societies , District Central Co-operative Banks, State Co-operative Bank, Their Working , Structure , Problems and Suggestions
- 4.4 Role of NABARD and Regional Rural Banks in Rural Credit.
- 4.5 Vaidyanathan Committee Report –
- 4.6 Urban Co-operative Banks Present Position, Progress, Problems in Maharashtra and Suggestions.

## Topic 5. Co-operative Movement in Selected Countries –

5.1 History and Growth of Co-operative Movement in Germany, Japan, Great Britain, Sweden

5.2 International Co-operative Alliance

### Basic Reading List :-

- Krishna Swamy D.R - Fundamental of Co-operation
- Mathur B.S. - Co-operation in India
- Bannerji B.J. - Co-operative Movement in India Navjivan Printing Works, Kolkatta.
- Hajela , T.N. – Principles , Problems and Practice of Co-operation in India.
- Jalal R.S. – Rural Co-operatives in India, Anmol Publications Pvt Ltd., New Delhi.
- Shakuntala Devi- Rural Credit and Agricultural Development, Sarup & And Sons, New Delhi - 1996.
- Memoria C.B; Saxsena R.D. Cooperation in India, Kitab Mahal, Alhabad, Delhi.
- Haguh E.M. – Cooperative Movement in India. Oxford University Press, Bombay - 1959.
- Bedi R.D. – Theory, History and Practice of Cooperation International Publishing House, Merut.1983.
- Kulkarni K.R. Theory and Practice of Cooperation in India and Abroad. Cooperative book depot, Bombay-1958.
- Misra Baidhynath – Cooperative Movement in India A.P.H. publishing Cooperation, New Delhi 1997.
- Tripathi S.N. – Cooperatives growth and New Dimensions, Discovery Publishing House, New Delhi 2000.

\*\*\*\*\*

**UNIVERSITY OF PUNE**  
**M.A. ECONOMICS (PART – I)**  
**Semester Pattern**  
**Revised Syllabus (From June 2008)**  
**Non-Core Course –Semester – I**  
**EC- 107 – Mathematical Economics**

---

**Topic I: Review of concepts**

- 1.1 The concept of Sets, the Real number system.
- 1.2 Use of Graphs; Identities, Equations and Inequalities.
- 1.3 Power of number; Logarithms and their Properties.
- 1.4 Binomial Theorem; Sequences and their formulas.

**Topic II: Functions of a single dependent variable:**

- 2.1 Algebraic, Exponential and Logarithmic.
- 2.2 Explicit, Implicit, and inverse Functions.
- 2.3 Polynomial functional Diagrammatic representation of higher order function of a single variable.
- 2.4 Market demand, supply curves, total revenue, cost functions.

**Topic III: Extensions to function of more than two independent variables**

- 3.1 Indifference curves, general production function, isoquants.
- 3.2 Production possibility frontiers and its use in economics.

**Topics IV: Matrix algebra**

- 4.1 Elementary operations of addition, multiplication etc.
- 4.2 Transpose and inverse of matrices. Rank of a matrix.
- 4.3 Solution of Simultaneous equation using matrices.

**Topic V: Differential Calculus**

- 5.1 Limits of functions, Continuity at a point and over an interval,
- 5.2 Rules of Differentiation including product, quotient, and chain rule.
- 5.3 Derivatives of implicit functions, Partial derivatives, constrained optimization.
- 5.4 Profit maximization in the different types of markets.
- 5.5 Price discrimination by monopolist to maximize profits.

**Topic VI: Integration**

- 6.1 Indefinite integral of algebraic, exponential and logarithmic functions.
- 6.2 Define integrals.
- 6.3 The relation between average and marginal concepts.
- 6.4 Capital values under continuous interest.

**Topic VII: The concept of the differential**

- 7.1 Homogenous functions and theorem.
- 7.2 Cobb-Douglas production function.

7.3 Differential and Difference Equations,

7.4 Linear differential equations of the first order, Applications to demand and supply functions, consumer choice etc.

7.5 Second order differential equations.

### **Topic VIII: Growth models**

8.1 Harrod-Domar, Samuelson's model of multiplier and acceleration, interaction etc.

### **Books**

Allen R.G.D.: Mathematical Analysis for Economics

Chaing A: Fundamental Methods of Mathematical Economics

\*\*\*\*\*

**UNIVERSITY OF PUNE**  
**M.A. ECONOMICS (PART – I)**  
**Semester Pattern**  
**Revised Syllabus (From June 2008)**  
**Non-Core Course –Semester – I**  
**EC- 108 – DEMOGRAPHY**

---

**Topic 1. Demography -**

- 1.1 Demography - Meaning, Nature, Scope and Importance.
- 1.2 Malthus Theory of Population
- 1.3 Optimum Theory of Population.
- 1.4 Theory of Demographic Transition
- 1.5 Components of Population Growth and their Interdependence, Population and Economic Development.

**Topic 2. Measures and Quality of Population -**

- 2.1 The Concept of Quality of Population
- 2.2 Factors affecting Quality of Population
- 2.3 Measures of Crude Birth Rate, General Fertility Rate, Total Fertility Rate, Reproduction Rate, Gross Reproduction Rate and Net Reproduction Rate
- 2.4 Crude Death Rate – Infant Mortality, Life expectancy

**Topic 3. Population in India -**

- 3.1 Population Trends in Recent Years in India.
- 3.2 Evolution of Population Policy
- 3.3 Woman Empowerment, Family Planning Programmes and its Consequences
- 3.4 Policies related to Health, Nutrition, Education, Training.

**Topic 4. Trends in World Population**

- 4.1 Population Trends in Recent Years.
- 4.2. Population Explosion
- 4.3 Growth of World Population - Developed and Developing Nations.
- 4.4 Pattern of age and Sex Structure in Developed and Developing Nations.
- 4.5 Determinants of Age and Sex Structure – Age Pyramids and Projections.
- 4.6 Human Development Index, Gender Equality.

**Basic Reading List :-**

- Agarwal S.N. (1972) , India's Population Problem , Tata McGraw- Hill, Co., Bombay
- Bose, A (1996) India's Basic Demographic Statistics, B.A. Publishing Corporation , New Delhi.
- Bogue, D.J. (1971) , Principles of Demography, John Wiley , New York.
- Chenery H. and T.N. Srinivasan (Eds.) (1989), Hand Book of Development Economics , Vol. 1 & 2 Elsevier, Amsterdam , et.
- Choubey,P.K. (2000), Population Policy in India, Kanishka Publications , New Delhi.
- Coale A. J. and L.M. Hoover (1958) , Population Growth and Economic Development in Low Income Countries : A Case Study of India's Prospects, Princeton University Press, Princeton.
- Gulati , S.C. (1988), Fertility in India ; An Econometric Study of a Metropolis, Sage, New Delhi.
- Simon , J.L. (1992) Population and Development in Poor Countries, Princeton University Press.
- Srinivasan, K. (1998), Basic Demographic Techniques and Applications Sage, New Delhi.
- Srinivasan K and A. Shariff (1998), India : Towards Population and Demographic Goals , Oxford University Press, New Delhi.
- Sryrock , H.et. al (1973), The Methods and Materials of Demography, US Department of Commerce, Washington D.C.

.....

# Semester – II

UNIVERSITY OF PUNE  
M.A. ECONOMICS (PART – I)  
Semester Pattern

Revised Syllabus (From June 2008)

Core Course – Semester – II  
EC- 201 – MICRO ECONOMIC ANALYSIS – II

---

## Topic 1. Price & output Determination (I) -

- 1.1 Perfect Competition - Features, Price Determination, Equilibrium of the Firm and Industry.
- 1.2. Monopoly: - Price and Output Determination.
- 1.3 Comparison between Monopoly equilibrium in and perfect Competition Equilibrium
- 1.4 Discriminating Monopoly – Price Discrimination, Equilibrium under Discriminating Monopoly.
- 1.5 Regulation of Monopoly – Through Taxation, and Price Regulation

## Topic 2. Price & output Determination (II) -

- 2.1 Monopolistic Competition – Price and Output Determination.
- 2.2 Critique of Chamberlin's Theory of Monopolistic Competition
- 2.3 Excess Capacity under Monopolistic Competition
- 2.4 Selling Cost.
- 2.5 Oligopoly – Price and Output Determination.
- 2.6 Cournot's Model and Chamberlin's Model of Oligopoly.
- 2.7 Kinked Demand Curve in Oligopoly.
- 2.8 Game Theory of Oligopoly.
- 2.9 Duopoly – Price and Output Determination.

## Topic 3. Alternative Theories of the Firm –

- 3.1 Baumol's Model of Sales Revenue Maximization.
- 3.2 Marris's Managerial Model of the Firm.

### 3.3 Williamson's Managerial Model of the Firm.

#### **Topic 4. Factor Pricing –**

- 4.1 Marginal Productivity Theory.
- 4.2 Euler's Theorem and Product Exhaustion Problem or Adding up Problem.
- 4.3 Modern Theory of Rent.
- 4.4 Wage Determination under Collective Bargaining.
- 4.5 Fixation of Minimum Wage.
- 4.6 Modern Theory of Interest, IS-LM Curve Model.
- 4.7 Dynamic Theory of Profit, Innovation Theory, Risk and Uncertainty Theory.

#### **Topic 5. Welfare Economics.**

- 5.1 Pigou's Theory of Welfare Economics
- 5.2 Conditions of Pareto Optimality.
- 5.3 Bergson – Samuelson's Social Welfare Function.
- 5.4 Arrow's Impossibility Theorem.

#### **Basic Reading List :-**

- Michael Perkin (1996) Economics 3<sup>rd</sup> Edition, Addison Westey Publishing Company, Inc. U.S.A.
- Stigler G. (1996) Theory of Price, 4<sup>th</sup> Edition, Prentice Hall of India, New Delhi.
- Samuelson P.A. and W.O. Nordhaus (1998) Economics 16<sup>th</sup> Edition Tata Mc Gram Hill, New Delhi
- Dewett K.K. Modern Economic Theory, S. Chand & Company Ltd., Revised Edition 2005.
- Ahuja H.L. Modern Economics 13<sup>th</sup> Edition, 2008, S.Chand and Company Ltd., New Delhi.
- Layard P.R.G. and A.W. Walters (1978) Micro – Economic Theory, Mc Gram Hill, New Yark.
- Kreps David M.(1990) A Course in Micro Economic Theory Princeton University Press, Prencetion.

- Sen A. (1999) Micro Economics Theory and Application , Oxford University Press , New Delhi
- Broadway R.W.and Bruse (1984) Welfare Economics, Busil Blackwell, London.

### **Topic 1**

- Archibald G.C. (1971) Theory of the firm, Penguin, Harmondsworth.
- Bain J. (1958) Barriers to New Competition, Harrard University Press, Harvard.

### **Topic 2**

- Hirshleifer J. and A.Glazer (1997) Price Theory and Applications, Prentice Hall of India,New Delhi.

### **Topic 3**

- Broadway R.W. and Bruce (1984) Welfare Economics, Busil Blackwell, London.
- Graff J. De V. (1957) Theoretical Welfare Economics, Cambridge University Press, Cambridge.
- Henderson, A.M. and R.E. Quandt (1980) Microeconomic Theory. A Mathematical Approach, McGraw Hill, New Delhi.

### **Topic 4& 5**

- Mishan E.J. (1969) Welfare Economics: an Assessment, North Holland, Amsterdam.
- Ahuja H.L. (2003) Advanced Economic theory: Microeconomic Analysis, 13<sup>th</sup> Edition, S.Chand and Co. Ltd. New Delhi.

\*\*\*\*\*

**UNIVERSITY OF PUNE**  
**M.A. ECONOMICS (PART – I)**  
**Semester Pattern**  
**Revised Syllabus (From June 2008)**  
**Core Course –Semester – II**  
**EC- 202 – Indian Public Finance**

---

**Topic 1. Government Budgeting -**

- 1.1 Budget – Meaning and Components.
- 1.2 Preparation, Presentation and Execution of Budget.
- 1.3 Economic Classification of Budget
- 1.4 Budget Deficits and Their Implications.

**Topic 2. Revenue, Expenditure and Public Debt.-**

- 2.1 Trends in Revenues of Union , State and Local Bodies since 1991.
- 2.2 Trends in Expenditure of Union , State and Local Bodies since 1991.
- 2.3 Burden of Public Debt on Indian Economy
- 2.4 Public Debt Policy Since 1991.
- 2.5 Reforms in Direct and Indirect Taxes

**Topic 3. Deficit Financing -**

- 3.1 Meaning and Objectives of Deficit Financing.
- 3.2 Trends in Different Types of Deficits Since 1991.
- 3.3 Deficit Financing in India.
- 3.4 Effects of Deficit Financing on Indian Economy.
- 3.5 Assessment of the Recent Central Government Budget.

**Topic 4. Fiscal Policy –**

- 4.1 Meaning and Objectives.
- 4.2 Interdependence of Monetary and Fiscal Policies.
- 4.3 Automatic Vs Discretionary Stabilizers.
- 4.4 Balanced Budget, Multiplier & Crowding Out Effects.
- 4.5 Indian Fiscal Policy since 1991.
- 4.6 Indian Fiscal Imbalance - Indicators, Causes, Effects & Remedial Measures.

**Topic 5. Federal Finance.**

- 5.1 Principles of Federal Finance.
- 5.2 Assignment of Functions & Devolution of Resources and Grants.
- 5.3 Vertical and Horizontal Imbalance.
- 5.4 Transfer of Resources from Union to States.
- 5.5 Recommendations of Eleventh and Twelfth Finance Commissions.
- 5.6 Centre – States conflicts on Finances

### Basic Reading List :- India Public Finance

- 1.Tripathy R.N. Public Finance in Underdeveloped Countries.
- 2.Dr. Joshi P.L. Zero Base Budgeting Technology in Government, Dhruv and Deep Books, Bombay.
- 3.Dr.Tyagi B.P., Public Finance, Jai Prakash Nath Pub.Meerat (UP).
- 4.Mithani D.M. Principles of Public Finance and Fiscal Policy Himalaya Publishing House, New Delhi.
- 5.Ruddar Datt and K.P.M. Sundharam (2006), Indian Economy, S.C.Chand and Company Ltd, New Delhi.
- 6.Ashutosh Raravikar, Fiscal Deficit and Inflation in India, Macmillan India Ltd. New Delhi.

#### Topic 1

- Sheth C.S. Theory and Practice of Public Finance, Himalaya Publishing House, New Delhi.
- Nanjundappa D.M. Studies in Public Finance, Asia Publishing House New Delhi.

#### Topic 2

- Bhargave R.N. (1967), The Theory and Working of Union Finance in India, Chaitanya Publishing House, Allahabad.

#### Topic 3.

- American Economic Association (1955) Readings in Fiscal Policy, George Alien and unio, London.

#### Topic 4. & 5

- Bhargave R.N. (1969), Indian Public Finance, B.D. Shargava and Sons, Chandausi.
- Bhargave P.K. (1976), Taxation of Agriculture in India, Vora and Co. Bombay.
- Bhargave P.K. (1991), Indian's Fiscal Crisis, Ashish Publishing House, New Delhi.
- Gandhi V.P. (1970), Some Aspects of India's Tax Structure, Vora and company, Bombay.

\*\*\*\*\*

**UNIVERSITY OF PUNE**  
**M.A. ECONOMICS (PART – I)**  
**Semester Pattern**  
**Revised Syllabus (From June 2008)**  
**Core Course –Semester – II**  
**EC-203 Indian Agricultural Problems and Policies**

---

**Topic 1 Agricultural policy and impact.**

- 1.1 State Policies & Central Policies.
- 1.2 Central policies comparison with world.
- 1.3 Recent Indian Agricultural Labour Policy & its comparison with World.
- 1.4 Ceiling on land holding policy. Past and Present
- 1.5 SEZ policy.

**Topic 2 Agricultural Export- Import Polices – history and recent changes**

- 2.1 Vegetables
- 2.2 Fruits
- 2.3 Spices
- 2.4 Flowers
- 2.5 Medicine, ornamental plants, Grain crops, Milk, Silk, Meat.
- 2.6 EXIM Policy- 2004-09

**Topic 3 Agricultural labour.**

- 3.1 Problems of Agricultural labour.
- 3.2 Efficiency of Agriculture labour.
- 3.3 Impact of mechanization on Agricultural labour.
- 3.4 Unemployment Problem.
- 3.5 Employment Guarantee Scheme.

**Topic 4 WTO and Agriculture.**

- 4.1 Agreement on Agriculture under WTO.
- 4.2 Issues of Agricultural Subsidies.
- 4.3 Impact of WTO on Agriculture.
- 4.4 Efficiency of service Sector in relation to Agriculture.

**Topic 5 Indian Agricultural Problems.**

- 5.1 Recent Agricultural Problems in India
- 5.2 Agricultural Problems in Maharashtra State.
- 5.3 Problems of Agricultural exports – imports

### Reference Books

1. Datt R. & K.P.M. Sundharm (2007) Indian Economy, S. Chand & Co. Ltd. New Delhi.
2. Misra S.K. & V.K.Puri (2007) Indian Economy – Himalaya Publication house Mumbai.
३. डॉ. मुकुंद गायकवाड ' भारतीय कृषी अर्थव्यवस्था ' कॅन्टीन्टेल प्रकाशन . २००८
4. Agrawal A.N. Indian Economy Problem of Development and Planning. 06.
5. Johnson P.A. Development Issues of Indian Economy (2003) Manan Prakashan.
6. Kapila Uma (ed) Indian Economy Since Independence. Academic Foundation (2003)
7. Dewett Kewal : Indian Economy C.Chand & Co. Ltd. New Delhi 2005.
8. B.N.P. singh. : Indian Economy Today Changing Contours. Deep and Deep Pub. 05.
9. Mamoria C.B. Agricultural Problems of India Kitab Mahal Pub. 2005.
10. M.P. Singh - Indian Economy Today – Problems Planning and Development. (2004) Deep and Deep Publication.
11. Singh Acharya, Sagar - Sustainable Agricultural Poverty and Food Securities. (2002) Rawat Publication Jaypur Vol- I & II
12. Ajit Singh and Tabatabai - Economic crisis and Third world Agriculture, Combries University Press.
13. Gulati & Kelley - Trade Liberalization of Indian Agriculture, (1999), Oxerpert University Press.
14. Gazzate of Government of India.

\*\*\*\*\*

**UNIVERSITY OF PUNE**  
**M.A. ECONOMICS (PART – I)**  
**Semester Pattern**  
**Revised Syllabus (From June 2008)**  
**Non-Core Course –Semester – II**  
**EC- 204– INDUSTRIAL ECONOMICS**

---

**Topic 1. Introduction -**

- 1.1 Meaning, Scope, Need & Significance of the Study of Industrial Economics.
- 1.2 Industrial Profile - Private Sector, Large, Medium & Small Scale Industries, Village Industries, Public Sector, Role and Problems of Public Sector Industries, Disinvestment Policy.
- 1.3 Integration, Industrial Combinations - Causes, Mergers & Amalgamations, Effects of Industrial Monopoly.

**Topic 2 .Theories of Industrial Location**

- 2.1 Factors Influencing Location of Industries.
- 2.2 Theories of Industrial Location, Weber, Sargent Florence
- 2.3 Industrial Imbalance, Causes and Measures.
- 2.4 Need for Balanced Regional Development of Industries.

**Topic 3. Industrial Productivity & Efficiency**

- 3.1 Productivity - Norms and Measurement
- 3.2 Factors affecting Productivity and Capacity Utilization
- 3.3 Importance of Productivity in the Competitive Environment.
- 3.4 Measures required for Improving Productivity and Efficiency.

**Topic 4. Industrial Finance:-**

- 4.1 Meaning , Scope, Importance of Industrial Finance
- 4.2 Sources of Industrial Finance : Private, Public and Co-operative Sector - Shares, Debentures, Bonds, Deposits, Loan etc.
- 4.3 Foreign capital : Need for Foreign Capital, Governments Policy towards Foreign Capital. Direct Investment , Foreign Institutional Investment, Euro Issues, GDR, ADR, External Commercial Borrowings.

**Topic 5. Indian Industrial Growth.**

4.4 Brief Outline of Industrial Policies of 1948, 1956, 1977.

4.5 Industrial Policy – 1991; Trends in Industrial Growth after 1991.

4.6 Performance & Problems of Small Scale & Cottage Industries in India.

4.7 Role of MNC's in India.

### **Basic Reading List**

- Alhuwalia I.J. (1985) , Industrial Growth in India, Oxford University Press New Delhi .
- Barthwal R.R. (1985) , Industrial Economics , Wiley Eastern Ltd., New Delhi.
- Cherunilam, F. (1994) , Industrial Economics : Indian Perspective (3<sup>rd</sup> Edition), Himalaya Publishing House, Mumbai.
- Desai, B. (1999), Industrial Economics in India (3<sup>rd</sup> Edition), Hamalya Publishing House, Mumbai.
- Divine , P.J. and R.M. Jones et. al.(1976), An Introduction to Industrial Economics, George, Allen and Unwin Ltd., London.
- Government of India , Economic Survey (Annual).
- Hay D. and D.J. Morris (1979) , Industrial Economics Theory and Evidence. Oxford University Press, New Delhi.
- Kuchhal S.C. (1980) , Industrial Economy of India (5<sup>th</sup> Edition) , Chaitanya Publishing Houses, Allahabad.
- Reserve Bank of India , Report on Currency and Finance ( Annual)
- Singh, A and A.N. Sandhu (1988) , Industrial Economics, Himalaya Publishing House,Bombay.

\*\*\*\*\*

**UNIVERSITY OF PUNE**  
**M.A. ECONOMICS (PART – I)**  
**Semester Pattern Revised Syllabus (From June 2008)**  
**Non-Core Course –Semester – II**  
**EC- 205 – RURAL DEVELOPMENT**

---

**Topic 1. Introduction -**

- 1.1 Nature of Rural Economy
- 1.2 Structure of Rural Economy
- 1.3 Concept of Rural Development.
- 1.4 Scope and Importance of Rural Development
- 1.5 V.M. Dandekar's Approach to Rural Development

**Topic 2. Dimensions of Rural Development -**

- 2.1 Agricultural Growth in India
- 2.2 Irrigation
- 2.3 Green Revolution
- 2.4 Agrarian Reforms
- 2.5 Rural Electrification
- 2.6 Rural Transport

**Topic 3. Poverty and Unemployment**

- 3.1 Rural Poverty – Nature, Causes and Remedies
- 3.2 Rural Unemployment - Nature, Causes and Remedies
- 3.3 Rural Indebtedness – Magnitude, Causes
- 3.4 Relief Measures Role of SHGs and Micro Finance in this context.
- 3.5 Rural Industrialization.
- 3.6 Employment in unorganized sector

**Topic 4. Programmes of Rural Development - Objectives and Assessment of Programmes / Schemes**

- 4.1 Food for Works Programme
- 4.2 Employment Guarantee Scheme
- 4.3 Small Farmers Development Agency
- 4.4 Marginal Farmer and Agricultural Labour
- 4.5 National Rural Employment Guarantee Programme

4.6 TRYSEM (Training Rural Youth for Self Employment)

4.7 Special Component Plan for SCs

4.8 Tribal Development Programme

4.9 Employment Assurance Scheme

4.10 Swarn Jayanti Gram Swarozgar Yojana

**Basic Reading List :-**

- 1) Dandekar V.M. and Rath . N. – Poverty in India
- 2) Sharma Anju – Dynamics of Cropping Pattern
- 3) Government of India – Evolution of Community Development Programme in India
- 4) Desai, Vasant - Study of Rural Economics, Himalaya Publishing Company , New Delhi.
- 5) Krishnamurthy V.T. – Community Development in India
- 6) Krishanaswamy D.R.. – Fundamentals of Co-operation
- 7) Mathur B.S. - Co-operation in India
- 8) Parthasarathy – Green Revolution in India
- 9) Jain P.C. – Agricultural Reforms in India
- 10) Jain S.P. – Indian Rural Economics Vikas, New Delhi
- 11)Wadhawa C.D. – Regional Rural Banks
- 12)R.B.I. Report on SFDA - R.B.I. Mumbai
- 13)R.B.I. Report on MFDL - R.B.I. Mumbai
- 14)Maheshwari S. – Rural Development in India
- 15)Shakuntala Devi – Rural Credit and Agricultural Development, Scrap & Sons, New Delhi 1996.
- 16)Patodiya Mohan S. - Rural Economics for C.A.I.I.B Part – I
- 17)Mishra Puri – Indian Economy, Himayala Publishing House, Mumbai.
- 18)Datt , Sundaram - Indian Economy , S.Chand and Company, New Delhi.
- 19) Statistics on Indian Economy - Various Issue – R.B.I. (Mumbai)
- 20) Government of India, Ministry of Finance, Economic Division Economic Survey- Various Issues.
- 21) Government Maharashtra , Economic Survey and Maharashtra Various Issues .
- 22) Aftab Uddin Ahmed and Kanakkanti Bagchi – Adoption of New Technology and Agricultural Development (Abhijeet Publications , New Delhi)

- 23) Kanak Kanti Bagchi – Employment and Poverty Alleviation Programmes in India – An Appraisal (2 vols) (Abhijeet Publications, New Delhi)
- 24) Sanatan Nayak – Irrigation and Economic Development (Abhijeet Publications, New Delhi)
- 25) Gagam Kumar Singh - Administration for Rural Development Programme in India , (Abhijeet Publications, New Delhi)

\*\*\*\*\*

**UNIVERSITY OF PUNE**  
**M.A. ECONOMICS (PART – I)**  
**Semester Pattern**  
**Revised Syllabus (From June 2008)**  
**Non-Core Course –Semester – II**  
**EC- 206 - COMPUTER APPLICATIONS IN ECONOMIC ANALYSIS**

---

**Topic 1. Introduction to Computers and Peripherals**

- 1.1 Basic components of computer – CPU, Input-output devices, keyboard, mouse & Scanner, video display, printers and plotters, data storage and retrieval, hard disk, Floppy disk and CD ROM;
- 1.2 Types of computers and their applications,
- 1.3 Hardware, software and firmware.
- 1.4 Concept of data, Information.

**Topic 2. Introduction to Operating System**

- 2.1 Introduction to Operating system, Types of operating System (Windows XP),
- 2.2 Components of the Windows Operating System (Desktop, Different type of menu, Taskbar, Control Panel, accessories),
- 2.3 Introduction to Spreadsheet (MS Excel) Basic, Function, MS-Chart , Sorting and Filtering of Data.

**Topic 3. Introduction to Networking and Internet.**

- 3.1 Computer networking and resource sharing,
- 3.2 Application of Network, Goals of Network, Types of Network, Network topology,
- 3.3 Introduction to Internet. Application of Internet (WWW, E-mail).
- 3.4 Use of Internet in Research.

**Topic 4. Application in Finance & Economics**

- 4.1 On line Banking: ATM's Electronic stock exchange, Electronic trading, Data sharing and decimation
- 4.2 Electronic transaction ; Document delivery ; Authentication and validation transaction processing.

**Topic 5. Application in Commerce**

- 5.1 Electronic trading and marketing on line shopping and malls, B2B, B2C, C2B and G2B models and their applications.
- 5.2 Document and transaction security and digital signature.

**Evaluation System of the Paper**

- 1) Term End – 60 Marks : Converted into 20 marks.
- 2) Practical – 20 marks Minimum 6 Practical to be completed. Practical panel Will be given by University of Pune
- 3) Annual Theory paper will be – 60 marks for 2.30 Hours. Total – 100 Marks

**Basic Reading List :-**

- 1) Rajaraman , V. (1996) , Fundamentals of Computers , Prentice Hall of India , New Delhi .
- 2) Sanders D.H. (1988), Computers Today, McGram Hill (3<sup>rd</sup> Edition) Intrilligator, M.D.(1978), Economic Models.
- 3) Techniques and Applications , Prentice Hall , Englewood Cliffs, NJ.
- 4) Wood, M.B. (1983), Introduction Computer Security, Broadman Associates, Delhi..

\*\*\*\*\*

**UNIVERSITY OF PUNE**  
**M.A. ECONOMICS (PART – I)**  
**Semester Pattern**  
**Revised Syllabus (From June 2008)**  
**Non-Core Course –Semester – II**  
**EC- 207 – Statistical Techniques**

---

**Topics I: Descriptive Statistics**

- 1.1 Collection, Organization and Presentation of Data.
- 1.2 Measures of central tendency and dispersion- mean, median, mode, standard deviation, variance, covariance and correlation coefficients.
- 1.3 Correlation and regression analysis.
- 1.4 Measures of skewness and peaked ness.

**Topic II: Sampling and sampling methods**

- 2.1 Sample and Population, Parameters and Statistics.
- 2.2 Variables and Attributes; sampling and non-sampling errors;
- 2.3 Types of sampling

**Topics III: Theory of Probability**

- 3.1 Probability, distribution, Events spaces.
- 3.2 Joint, Marginal and Conditional Probability under conditions of certainty and uncertainty. 3.3 Random variable: Expectation and Distribution.
- 3.4 Addition and Multiplication Theorems.
- 3.5 Probability Distribution, discrete and continuous and Expected values.

**Topic IV: Probability Distribution Function**

- 4.1 Binomial, Poisson,
- 4.2 Normal t-test, chi-square, t-test.

**Topic V: Statistical Estimation and Testing of Hypothesis**

- 5.1 Types of estimators and their properties.
- 5.2 Sampling distribution for sample mean and Proportion.
- 5.3 Point and Interval estimation.
- 5.4 Null and Alternate Hypothesis.
- 5.5 Level of significance and Level of confidence, Confidence limits and Critical Region;
- 5.6 Tests of significance- Type I and II errors.

**Topics VI: Time series**

- 6.1 Nature and decomposition of a time series-trend.
- 6.2 Cyclical, seasonal and random components.
- 6.3 Fitting trend curves.

**Topic VII: Index numbers**

## 7.1 Laspeyer's, Paasche's and Fisher's Indices

**Books**

Croxton and Dudley: Applied General Statistics

Gupta S. P.: Applied Statistics

\*\*\*\*\*

**UNIVERSITY OF PUNE**  
**M.A. ECONOMICS (PART – I)**  
**Semester Pattern**  
**Revised Syllabus (From June 2008)**  
**Non-Core Course –Semester – II**  
**EC- 208 – Community Development and Planning**

---

**Topic 1 Social Development Theory and Policy I: Modernization and Dependency Theories**

- 1.1 Introduction to the Sociology of Development
- 1.2 Social Investment and Economic Growth
- 1.3 Theories of Underdevelopment
- 1.4 Theories of Development

**Topic 2 Social Development Theory and Policy II: Marxism, Post-Marxism and Post-Development**

**Topic 3 Social Development Theory and Policy III: Basic Human Needs**

- 3.1 Post-modernization approaches to guided development during 1970s and 80s and their implications for state intervention and social policy.
- 3.2 Redistribution with growth and basic human needs.

**Topic 4 Social Capital and Social Policy**

- 4.1 What is Social Capital.
- 4.2 Asset Vulnerability Framework.
- 4.3 Foundations of Social Theory

**Topic 5 Community Development**

- 5.1 Community Development practices
- 5.2 Case Studies : Indian context
- 5.3 Overseas Development Assistance and Social Planning
- 5.4 Planning and aid

**Topic 6 Social Development and the Environment**

**Topic 7 Population and Social Policy in an International and Indian context**

**Basic References:**

- M Hardiman & J Midgley , The Social Dimensions of Development, Gower,1989
- A Webster, Introduction to the Sociology of Development, Macmillan,1983
- P Streeten, First Things First: Meeting Basic Human Needs in Developing Countries,1981
- R Putnam, Making Democracy work, Princeton University Press, NEW Jersey,1993
- D Lal, The Poverty of Development Economics,1983
- PW Preston, Development Theory : An Introduction, Blackwells,1996
- R Chambers, ‘Poverty and Livelihoods: Whose Reality Counts?’ in Environment and Urbanization, Vol. 7,No. 1, April 1995,pp 173-204

\*\*\*\*\*