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)

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<td>EC-108 Demography.</td>
<td>EC-208 Community Development and Planning</td>
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</tbody>
</table>
Topic 1. Introduction:

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 –

2.2 Ordinal Utility Approach:- Indifference curve, Properties Consumer’s equilibrium, Price, income & substitution effects, Derivation of Demand Curve.
2.3 Revealed Preference Theory of Demand.

Topic 3. Consumer Surplus and Elasticity of Demand:-

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**

5.2 Short Run and Long Run Cost Curves
5.3 Revenue Concepts: - Average, Marginal and Total Revenue, Numerical Problems.

**Basic Reading List:**


**Additional Reading List:**

**Topic 1:**

**Topic 2:**

**Topic 3:**

**Topics 4 & 5:**

*******
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.

Topic 2. Principles of Taxation –
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

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


Additional Reading List:

Topic: 1

Topic: 2 & 3

Topic: 4.

Topic: 5

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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

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.


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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

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**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.

**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.

**Topic 3. 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.

**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**
2. (Essays in Honour of Manmohan Sing), Oxford University Press, New Delhi.
21. Noorjahan, Bava ; People’s Participation in Development Administration in India.
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 -
2.2 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 :-**


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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.
- 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.

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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 and 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

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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

1.2 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

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 :-

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 – Samulson’s Social Welfare Function.

5.4 Arrow’s Impossibility Theorem.

**Basic Reading List :-**


**Topic 1**

**Topic 2**

**Topic 3**

**Topic 4 & 5**

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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
2.5 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.

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.
6. Ashutosh Raravikar, Fiscal Deficit and Inflation in India, Macmillan India Ltd. New Delhi.

**Topic 1**

**Topic 2**

**Topic 3**

**Topic 4 & 5**
- Gandi V.P. (1970), Some Aspects of India’s Tax Structure, Vora and company, Bombay.

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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 Policies – 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


3. द्रो. मुकुंद गायकवाड ‘ भारतीय कृषि अर्थव्यवस्था ’ कंटीनेंटल प्रकाशन. 2008


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.


Topic 5. Indian Industrial Growth.
4.6 Performance & Problems of Small Scale & Cottage Industries in India.
4.7 Role of MNC’s in India.

Basic Reading List


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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
5) Krishanamurthy 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
14) Maheshwari S. – Rural Development in India

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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, primers 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  
5.2 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 :


*****************************************************
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
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:

- P Streeten, First Things First: Meeting Basic Human Needs in Developing Countries, 1981
- PW Preston, Development Theory: An Introduction, Blackwells, 1996

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