

Telangana University
B.A. (Economics) Syllabus
II Year (W.e.f., 2017-18)
Semester – III
Quantitative Methods for Economic Analysis

Unit – I: Mathematical Foundations of Economic Analysis:

Importance of Quantitative Methods in Economics – Meaning and Basic Concepts of Mathematics: Constants and Variables – Functions: Linear, Non-Linear Functions – Equations and Graphs of Linear, Quadratic and Cubic Functions – Concept of Derivative – Rules of Differentiation with respect to Cost, Revenue and Demand Functions – Application of Maxima and Minima in Economic Analysis

Unit – II: Introduction to Statistics:

Meaning and Basic Concepts of Statistics – Population and Sample, Frequency Distribution, Cumulative Frequency – Graphic and Diagrammatic Representation of Data – Types of Data: Primary and Secondary Data – Methods of Collecting Data: Census and Sampling Methods (Random, Non-random Sampling Methods)

Unit – III: Measures of Central Tendency and Dispersion:

Measures of Central Tendency : Mean, Median, Mode, Geometric Mean and Harmonic Mean – Properties of Good Average – Comparison of Different Averages – Measures of Dispersion – Absolute and Relative Measures of Dispersion: Range, Quartile Deviation, Mean Deviation, Standard Deviation, Coefficient of Variation and Variance

Unit – IV: Correlation and Regression:


Correlation: Meaning and Types – Karl Pearson's Correlation Co-efficient – Spearman's Rank Correlation – Regression: Meaning and Uses of Regression – Estimation and Interpretation of Regression Line

Unit – V: Index Numbers and Time Series Analysis:

Index Numbers: Meaning and Uses – Types of Index Numbers – Methods of Index Numbers: Laspeyres, Paasche and Fisher – Analysis of Time-Series: Meaning and Uses – Components of Time Series Analysis: Secular, Seasonal, Cyclical and Irregular Variations – Methods of Measurement of Secular Trends: Graphic, Semi-Averages, Moving Averages and Least Squares Methods.

Reference Books

- Allen, RGD : Mathematical Analysis for Economists, Macmillan Press, London.
Bhardwaj RS : Mathematics for Economics and Business, Excel Books, New Delhi
Bose : Mathematics for Economics, Himalaya Publishing, New Delhi
: Fundamental Methods of Mathematical Economics McGraw Hill, New
Chiang, AC Delhi
Nagar & Das : Basic Statistics
S.P. Gupta : Statistics


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Semester – IV
Public Finance and International Economics

Unit – I: Public Revenue:

Nature and Scope of Public Finance – Public Revenue: Sources and Classification – Direct and Indirect Taxes: Progressive, Proportional and Regressive Taxes – Canons of Taxation – Characteristics of a Good Tax System – Impact and Incidence of Taxation – Effects of Taxation

Unit – II: Public Expenditure and Public Debt:

Public Expenditure: Classification and Principles – Determinants of Public Expenditure – Effects of Public Expenditure – Public Debt: Nature, Sources, Classification, Effects and Redemption – Debt Trap

Unit – III: Indian Public Finance:

Indian Tax System: GST (Merits and Demerits), – Public Expenditure and Public Debt in India - Federal Finance – Centre-State Financial Relations – Functions of Finance Commission – Budget: Concepts & Types – Revenue Account – Capital Account – Types of Budget Deficits – Fiscal Responsibility and Budget Management (FRBM)

Unit – IV: International Trade:


Introduction to International Trade - Gains from Trade – Role of International Trade in Economic Development - Concept of Terms of Trade – Factors Affecting Terms of Trade – Tariffs – Quotas – Balance of Trade – Exports and Imports in India- Functions of WTO and its Impact on India.

Unit – V: Balance of Payments and Exchange Rates:

Concept – Components and Determinants of Balance of Payments – Equilibrium and Disequilibrium in Balance of Payments – Measures to Correct Disequilibrium in Balance of Payments – Recent Trends in India's Balance of Payments – Exchange Rates: Concept and Types- FEMA- Functions of IMF.

Reference Books

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| 1 | Houghton, J M (1970) | The Public Finance: Selected Readings, Penguin, Harmonds worth |
| 2 | Jha, R (1998) | Modern Public Economics, Routledge , London |
| 3 | Menutt, P (1996) | The Economics of Public Choice, Edward Elgar, U.K. |
| 4 | Musgrave, R A (1959) | The Theory of Public Finance , McGraw Hill, Kogakusha, Tokyo |
| 5 | RA Musgrave & PB Musgrave | Public Finance in Theory and Practice, McGraw Hill, Kogakus ha, Tokyo |
| 6 | S K Singh | Public Economics |
| 7 | Om Prakash | Public Economics |
| 8 | M L Jhingan | Public Economics |
| 9 | H L Bhatia | Public Economics |
| 10 | Sodersten Bo | International Economics, Macmillan Press Ltd., London |
| 11 | Vaish MC and Sudhama Singh | International Economics, Himalaya Publis hing, House, New Delhi |
| 12 | Salvatore, D L | International Economics, Prentice Hall |
| 13 | Mithani DM | International Economics, Himalaya, Mumbai |
| 14 | Mannar HG | International Economics, Vikas, Delhi |
| 15 | Desai | International Economics, Himalaya, New Delhi |


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