

M.S. Economics (IX Semester)
PAPER-I : Indian Economy

Module-1 : Basic Structure of the Indian Economy

Basic features of the Indian Economy-Natural and Human Resources – Social and Physical Infrastructure – Need for Structural Change – Growth and Structural Changes in Indian Economy.

Module-2 : The Agricultural Sector:

Institutional Structure – Land Reforms in India : Technological Change in Agriculture-Pricing of Agricultural Inputs and Output; Terms of Trade between Agriculture and Industry; Agricultural Finance Policy; Agriculture Marketing and Warehousing; Issues in Food Security-Policies for sustainable agriculture;

Module-3 : The Industrial Sector:

Industrial Policy; Public Sector Enterprises and their Performance; Problems of Sick Units in India; Privatization and Disinvestment Debate; Growth and Pattern of Industrialization; Small-Scale sector; Productivity in Industrial Sector; Exit Policy-Issues in Labour Market Reforms; Approaches for Employment Generation.

Module-4 : Poverty and Five Year Plans in India :

Objectives and Strategy of Planning-Achievements and Failures of Plans-developing Grass – Root Organizations for Development – Panchayats, NGOs and Pressure Groups-the concepts of Poverty and Indicators of Measurement – poverty Alleviation Programmes undertaken during different Five Year Plans – Inclusive growth and Eleventh and Twelfth Five Year Plans.

Module-5 : Economic Reforms in India

Rationale of Internal and External Reforms; Globalization of Indian Economy; W.T.O. and its Impact on Different Sectors of the Economy; Need for and Issues in Good Governance; Issues in Competition and Safety nets in Indian Economy.

References :

1. Ahluwalia, I.J. and I.M.D. Little (Eds.) (1999), India's Economic Reforms and Development (Essays in honour of Manmohan Singh), Oxford University Press, New Delhi.
2. Bardhan, P.K. (9th Edition) (1999), The Political Economy of Development in India. Oxford University Press, New Delhi. Bawa, R.S. and P.S. Raikhy (Ed.) (1997), Structural Changes in Indian Economy, Guru Nanak Dev University Press, Amritsar.
3. Brahmananda, PR. And V.R. Panchmukhi (Eds.) (2001), Development Experience in the Indian Economy : Inter-State Perspectives. Bookwell, Delhi.
4. Chakravarly, S. (1987), Development Planning : The Indian Experience. Oxford University Press, New Delhi.
5. Dantwala, M.L. (1996), Dilemmas of Growth : The Indian Experiences, Sage Publications, New Delhi.
6. Datt, R. (Ed.) (2001), Second Generation Economic Reforms in India. Deep & Deep Publications, New Delhi.
7. Eashwar C. Dhingra _ "Indian Economy".
8. Devraj Ray _ Development Economics "Oxford Press" (Latest Edn.)

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PAPER-II : Emerging Issues in Global Economy

1. Issues relating to Trade and Development : Different perceptions – The importance of Trade to Development – The terms of Trade and Economic Development – Export instability and Economic Development – Import substitution versus export promotion – Current problems facing by developing countries.
2. The process of Globalization and its impact : Meaning of Globalization-Dependency and Inter-dependency - Advantages and Disadvantages – Trends in the process of Globalization – Impact of Globalization on Less Developed Countries with reference to the Indian Economy.
3. World Trade Organization and it's Agreements : A critical review of the working of WTO – Singapore Issues and Doha Declaration – Hong Kong Ministerial Conference – Developments relating to post Hong Kong Ministerial Conference – Impact of AOA on the agricultural trade of developing countries.
4. Global Financial Flows and their consequences: Global Financial Crisis – Nature, Causes and Consequences of Global Financial crisis – it's impact on Industrial Countries and on Less Developed Countries with reference to the Indian Economy – Emerging Euro Zone Debt crisis.
5. Issues relating to Emerging Economies: Specific Features of the BRICS economies– Opportunities and challenges for them in the Global Economy – Comparative analysis of India and China – Measures required to Indian Economy to emerge as Super Power in near future.

References:

1. Pramita Dasgupta (ed :WTO at the Crossroads, Concept Publishing House, New Delhi, 2009
2. D.K. Gargi :European Union and India, Concept Publishing House, New Delhi, 2001
3. Domnice Silvatore : International Economics, 7th Edition John Willey and sons, 2001
4. Misra & Puri : Indian Economy 30th Edition, Himalaya Publishing House, 2012.
5. M. Todaro : Economic Development, 7th Edition John Willey

- and sons, 2000.
6. J.N. Bhagwati : Dependence and Inter-dependence, Cambridge University Press, 1985.
 7. I.B. Kravis : Trade as a Handmaiden of Growth, Oxford University Press, 1970.
 8. World Trade Organisation : Symposium on Trade and Development, Geneva, March 1999.
 9. Domnice Silvatore : Capital Flows, Current Account Deficits and Financial Crisis in Emerging Market Economies, International Trade Journal, 1988.
 10. UNCTAD : Trade and Development Report, UN Yearly, Geneva, 2010.
 11. World Bank : World Development Report, World Bank Yearly, 2010.
 12. Deepak Nayyar : Globalisation – What does it mean for development ? New Delhi, 1988.
 13. Kaviljit Singh : Tamang Global Financial Flows, New Delhi, 2010.
 14. Alok Roy : External Sector – Liberalisation in India, EPW, October 2nd 1993.
 15. Baldev Raj Nayar : Globalisation and Nationalism, New Delhi 2001.
 16. Biplav Dasgupta : Globalisation – India’s Adjustment Experience, New Delhi, 2005.
 17. Martin Khor : WTO’s Hong Kong Conference – Imbalanced Outcome, EPW, December 24, 2005.
 18. Government of India : Economic Survey, 2011-12, New Delhi, 2012.
 19. Bibek Debroy : Beyond the Uruguay Round – The Indian Perspective on GATT, New Delhi, 1996.
 20. Datt & Sundaram : Indian Economy, 63rd Revised Edition, S.Chand Publishers, New Delhi. 2011.

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Paper-III : **ECONOMIC FORECASTING**

Module 1 : Time Series Analysis : Introduction – Stationary Stochastic Process – Non-Stationary Stochastic process and unit Roots – Test for Unit Roots in Economic Data – The Dicky – Fuller Test – Cointegration – Testing for Cointegration - VAR, ARCH and GARCH models.

Module 2 : Linear Time Series Models : Univariate Time Series Models – Moving Average Models – Auto Regressive Moving Average Methods – ARIMA Models.

Module 3 : Quantitative and Limited Dependent variables Models : Binary Choice Models – Linear probability Model, Probit Model and Logit Models – Censored and Truncated Regression Models.

Module 4 : Forecasting : Nature and Uses of Forecasts – Forecasting with a Single Equation Linear Regression Model – Forecasting with a Multi Equation Econometric Model – Testing the difference between single prediction and Realization – Evaluation of the Forecasting Power of a Model – Unconditional Forecasting – Forecasting with Serially correlated Errors – Conditional Forecasting.

Module 5 : Forecasting by Exponential Smoothing : Single and Double Exponential Smoothing – Host Winters Model – Box-Jen Kins Model.

Text Books :

1. Koutsoyiannis, A : Theory of Econometrics, The Mac Millan Press Ltd.
2. Maddala, G.S : Econometrics, Mc Graw Hill Book Company.
3. Robert S. Pindy CK & Daniel L. Rubinfeld : Econometric Models and Economic Forecasts, Mc Graw Hill Book Company.
4. Francis Diabold: Elements of Forecasting, South Western College Publishing.
5. Harnilton, J.D. : Time Series Analysis, Princeton, N.J, Princeton University Press.
6. Maddala, G.S : Limited Dependent and Qualitative Variables in Econometrics, Cambridge University Press.
7. Gujarathi, D.N : Basic Econometrics, Tata Mc Graw Hill.
8. William H. Gree: Econometric Analysis, Pearson's Education.
9. Newbold and Bos : Introductory Business and Economic Forecasting, South Western College Publishers.

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PAPER-IV : Techniques of Demographic Analysis

Module 1: Nature and Scope of Demography : Coverage, Content and Errors in Demographic Data; Population Composition; Dependency

Ratio; Adjustment of Age data – Use of Whipple, Myer and UN Indices; Chandrasekhar – Deming Formula to Check completeness of Registration data – India population census; Demographic Surveys in India (NFHS).

Module 2: Measures of Fertility; Stochastic model of reproduction (Dandekar's Modified Binomial and Poission Distribution, William Brass Model), Distribution of time to first birth, Inter-life birth intervals and number of births; Social and Economic Theories of Fertility

Module 3: Measures of Mortality : Construction of Abridged Life Tables, Relation between Functions of Life Tables; Distribution of Life Table Function; Uses of Life Tables, Factors Affecting Mortality; Methods of Population Projections.

Module 4: Stable and Quasi – Stable Populations; Intrinsic Growth rate; Models for population growth and their fitting to population data; Linear, Exponential, Logarithmic, Modified logarithmic, Gompertz and Logistic curves.

Module 5: Population Theories (Malthus, Optimum, Demographic Transition) Migration and Urbanisation; India's Population Trends and Policy; Demographic dividend in India.

References:

1. Asha Bhinde and Tara Kanitkar (2001); Principles of Population Studies, Himalaya Publishing House.
2. Bartholomew, D.J.(1982); Stochastic Models for Social Process, John Wiley.
3. Benjamin, P (1969); Demographic Analysis, George Allen and Unwin.
4. Bogue, D.J. (1971), Principles of Demography, John Wiley, New York.
5. Chain, C.L. (1968); Introduction to Stochastic Process in Bio-statistics, John Wiley.
6. Cox, P.R. (1970); Demography, Cambridge University Press.
7. Keyfitz, N (1977); Applied Mathematical Demography, Spinger Verlag.
8. Pathak, K.B and Ram, F (1998); Techniques of Demographic Analysis, Himalaya Publishing House.
9. Ramachandrudu, G. (1991); Demographic Methods, Andhra University Press, Visakhapatnam.
10. Ramakumar, P (1986); Technical Demography, Wiley Eastern Ltd.
11. Sudhendu Biswas (1995); Applied Stochastic Processes, New Age International Publishers Ltd.
12. Spiegelman, M (1969); Introduction to Demographic Analysis, Harvard University Press.

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PAPER-V: Statistical Package for Social Sciences (SPSS)

Unit-I:

Introduction to SPSS

Preparation of Data Files - Types of Data, Merging of files - Measurement of Attributes - Classification and Tabulation - One, two and three way tables, Frequency Distribution - Discrete, Grouped, Continuous and Bivariate Frequency Distribution - Graphical and Diagrammatic Representation of Data - Various Bar Charts and Pie-Chart - Frequency Curve - Ogive - Box Plot - Histogram - Descriptive Statistics - Measures of Central Tendency, Measures of Dispersion, Skewness, Kurtosis, Percentiles, Co-efficient of Variation, Distributions - Binomial, Poisson, Negative Binomial, Normal, Exponential, Uniform.

Unit-II:

Statistical Inference

Point estimation- sampling distribution, Confidence intervals, Testing of Hypothesis - Z-test, t-test, F-test, X^2 -test - Non-parametric tests.

Unit-III:

Design of Experiments

ANOVA - One way analysis, two way analysis, CRD, RBD, LSD, Multiple comparison- Fractional Factorial designs, Response surface Methodology.

Unit-IV:

Multivariate Analysis

Correlation Analysis, Regression Analysis, Linear Models, Log Linear Models, Non-Linear Models, Generalized Linear Models, Logistic Regression, Clustering and Classification, Principle Component Analysis, Factor Analysis, Canonical Correlation

Unit-V:

Simulation

Random Number Generation - Uniform Random Numbers - Generating the Random Numbers from Binomial, Poisson, Negative Binomial, Normal, Exponential distributions, Report generation.

Reference :

SPSS Instruction manual version-16.0

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Unit-I

Introduction to SAS:

Data Management Facility, Structure of SAS program, Data Analysis and reporting utilities.

Creating permanent libraries, using temporary and permanent data set within the libraries, Methods of importing data into SAS and saving datasets in SAS libraries.

Data Manipulation / Transformation:

Creating new variables, operating logical expressions, recoding, variable and value labeling, sorting. (Procedures statement like Print, etc)

Advanced Data manipulation techniques:

Renaming and retaining variables, Do Blocks & Do Loops, sub-setting datasets (select), working with arrays, generating multiple datasets, merging files, reshaping dataset.

Unit-II

Descriptive Statistics:

Measures of Central Tendency, Measures of Dispersion, Skewness, Kurtosis, Percentiles, Co-efficient of Variation- fitting of Distribution

Unit-III

Testing Hypothesis:

Parametric tests: – Z-test, t-test, F-test, X^2 -test

Non – parametric tests: - Mann Whitney U test (independent observations), Wilcoxon signed rank test (paired observations) and calculating the correlation coefficient.

Unit-IV

Advanced statistical techniques

Regression Analysis, Linear Models, Log Linear Models, Non-Linear Models, Logistic Regression, Clustering and Classification, Principle Component Analysis, Factor Analysis, Canonical Correlation

Unit-V

Simulation and report generation

References:

1. The Little sas book a primer third edition