UNIVERSITY OF MUMBAI

No.UG/ 310 of 2005

CIRCULAR :

Attention of Principals of the affiliated colleges in Arts and Professor-cum-Director, Institute of Distance Education is hereby invited to the scheme of Papers relating to the Bachelor of Arts (B.A.)degree courses under the revised pattern vide Pamphlet No.150 and to this office Circular No.UG/229 of 2003 dated 4th June, 2003 and they are hereby informed that the recommendation made by the Board of Studies in Economics at its meeting held on 4th January, 2005 has been accepted by the Academic Council at its meeting held on 5th February, 2005 vide item No.4.13 and that in accordance therewith the syllabus in the subject of Economics Papers-VI, VII, VIII and IX(except Indian Financial System, Entrepreneurship and Small Industrial Management and Computer Application to Economic Analysis) at the T.Y.B.A. examination is revised as per Appendix and that the same has been brought into force with effect from the academic year 2005-2006.

Mumbai 400 032,
5th August, 2005.

for REGISTRAR.

A.C.4.13/05.02.2005

To,

Principals of the affiliated colleges in Arts and Professor-cum-Director, Institute of Distance Education

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No.UG/ 310-A of 2005 5th August, 2005.

Copy forwarded with Compliments for information to :-

1. The Dean, Faculty of Arts
2. The Chairman Board of Studies in Economics.

for REGISTRAR.

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P.T.O.

A.C. Item No. 4.13 dt. 5/2/2005

UNIVERSITY OF MUMBAI

Revised Syllabus
for
T.Y.B.A. (Economics)

(with effect from the academic year 2005-2006)

T.Y.B.A. (ECONOMICS) REVISED SYLLABUS TO BE INTRODUCED FROM ACADEMIC YEAR 2005-2006

Paper IV
Advanced Economic Theory (Already Revised)

Paper V
Development & Environmental Economics (Already Revised)

PAPER VI
Indian Financial System (Already Revised)

OR

Industrial Relations in India

OR

Co-operation: Principles and Practices

T.Y.B.A. (ECONOMICS) REVISED SYLLABUS TO BE INTRODUCED FROM ACADEMIC YEAR 2005-2006

INDUSTRIAL RELATIONS IN INDIA

PAPER : VI

TOPIC - 1

(LECTURES - 10)

Meaning and process of Industrialisation - Impact of Industrialisation on Industrial Relations in India - Oranised and Unorganised sector and contract labour-problems of child labour in India - Labour commitment.

TOPIC - 2

(LECTURES - 12)

Trade union - Aims and Objectives - salient features of trade unions in India - The origins, growth and development of trade unions in India - Impact of globalization on trade unions in India - Women's participation in trade union.

TOPIC - 3

(LECTURES - 12)

Theories of Industrial Relations - The systems model, the class conflict analysis - Marxian class conflict approach.

TOPIC - 4

(LECTURES - 10)

Industrial disputes - Labour unrest - strikes and lock outs - Industrial conflicts in India - causes and measures to solve the problems - role of labour officer in Industry.

TOPIC - 5

(LECTURES - 10)

Collective bargaining - Issues in collective bargaining - Wages Dearness allowances and Bonus Issues - (with reference to India)

TOPIC - 6

(LECTURES - 6)

Workers participation in management - meaning and types with special reference to India.

References:

1. Myers C.A. & Kannappan S. (1970), Industrial Relations In India, Asia Publishing House, India.
2. Singh, J. K. (1998), Labour Economics, Principles , Problems and Practices, Deep and Deep Publications Pvt. Ltd. New Delhi.
3. Jackson, M.P., Strikes
4. Karnik V. B. (1974), Indian Labour, Problems and Prospects, Minewal Associations.
5. Joshi C. K. (1967), Unionism in Developing Economy, Asia Publication House, Bombay.
6. Mamoria C.B. & Mamoria S, (1992), Dynamics of Industrial Relations in India, Himalaya Publishing House.
7. Ramanujam G. (1986), Indian Labour Movement, Sterling Publishers Private Ltd., New Delhi.
8. Ramaswamy, E.A. and Ramaswamy Uma (1988), Industry and Labour : An Introduction, Oxford University Press.
9. Punekar, Deodhar & Sankaran, Labour Welfare Trade Unionism and Industrial Realtions.
10. Bhagotiwal T.M. Industrial Relations in India
11. Manappa Arun, Industrial Relations.

Journals: EPW, NCL Report 2003

T.Y.B.A. (ECONOMICS) REVISED SYLLABUS TO BE INTRODUCED FROM ACADEMIC YEAR 2005-2006

CO-OPERATION - PRINCIPLES AND PRACTICES

Topic 1. Features And Importance Of Co-Operation

(Lectures 11)

Introduction, Meaning, Of Co-Operation, Salient Features Of Co-Operation, Benefits Of Co-Operation.

Principles Of Co-Operation: Primary And Secondary Principles Of Co-Operation, Co-Operation And Capitalism, Co-Operation And Socialism, The Middle Way ,Place Of Co-Operation In India.

Topic 2. International Co-Operative Alliance:

(Lectures - 10)

Origin Of World Co-Operative Movement, Development Of World Co-Operative Movement, Development Of Co-Operative Movement In India Before Independence - Outline Of Development Of Co-Operative Movement In India After Independence.

Topic 3. Place Of Co-Operation In Modernisation and Privatization Of The World : (Lectures - 09)

New Economic Policy Of India And The Place Of Co-Operative In The New Economic Policy, Globalisation - Free Economy - Survival Of Co-Operatives Under This New Ideology, Modernization Of Methods Of Business, Privatization Through Co-Operatives, Leadership in Cooperative Development.

Topic 4. (Lectures - 11)

(a) **Co-Operative Banking In India**: Primary Agricultural Credit Society, Central, Co-Operative Banks, State Co-Operative Banks. Land Development Banks, Farmer's Service Societies And Urban Co-Operative Banks

(b) **Government And Co-Operation In India**

Role Of Reserve Bank Of India, Central Government And State Government In Co-Operation, Co-Operative Administration, Role Of NABARD.

Topic 5 Co-Operative Societies In India (Lectures - 09)

Co-Operative Marketing, Housing Co-Operative, Labour Co-Operatives, Co-Operative Processing Societies In India, Consumer's Co-Operative Societies In India, Industrial Co-Operatives.

Topic 6 Co-operative Development Institutions: (Lectures - 10)

Role Of (A) National Co-Operative Development Corporation; (B) National Co-Operative Union Of India; (C) State Co-Operative Union; (D) National Dairy Development Board; (E) Khadi And Village Industries Commission; (F) Sugar Co-operation.

References:

1. Mathur, B.S. (1999), Co-Operation In India.
2. Bech, R.D., Theory History And Picture Of Co-Operation.
3. Bhatnagar And Others, Co-Operation In India.
4. Sami Uddin Mahfoozer Rahman, Co-Operative Sector In India.
5. Tyagi, R.B. Recent Trends In The Co-Operative Movement In India.
6. Iyangar, A Study In The Co-Operation In India.
7. Vaze, A. T. , Pawar I.D., Theory Of History Of Co-Operation .
8. Hajela T.N. Principle; Problems And Practices Of Co-Operation.
9. Bhosale, Kate, Sahakar, Phadke Prakashan.
10. Kopardekar, Joshi, Sahakar Parichay, Himalaya Prakashan.
11. Joshi C.J, Sahakar Tatve Va Vyavahar, Phadke Prakashan.
12. Saraf, M And Dabke, Sahakar
13. Deshmukh P., Vipanan Vyavastha, Vidya Prakashan , Kolhapur.

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T.Y.B.A. (ECONOMICS) REVISED SYLLABUS TO BE INTRODUCED FROM ACADEMIC YEAR 2005-2006

PAPER VII

Elementary Mathematics and Statistics for Economic Analysis

Or

Research Methodology

Or

Economics of Rural Development

T.Y.B.A. (ECONOMICS) REVISED SYLLABUS TO BE INTRODUCED FROM ACADEMIC YEAR 2005-2006

ELEMENTARY MATHEMATICS AND STATISTICS FOR ECONOMIC ANALYSIS

Section I

Module 1: Set theory, functions, limits and continuity:
[LECTURES-10]

1.1 Set theory, functions and relations :

- Concept of a set , Types
  Fundamental Set Operations with Venn diagrams: Union, Intersection, Complement
  De Morgan's Law
  Cartesian products of sets and relations
  Properties of Binary Relations
- Concept of Functions :
  Algebraic (with graphical solution): Constant, Linear, Quadratic and Cubic
  Non-Algebraic: Logarithmic and Exponential (only concepts)
  Inverse of a function
- Applications to Economic Theory :
  Demand, Supply, Market Equilibrium, Effects of Taxation and Subsidy on
  Equilibrium Price
  Saving, Investment, Consumption, Income and Government expenditure
  (Using basic Structural Identities)

1.2 Limits and Continuity:

- Limit of a function: at a point, over an interval
- Limit of Algebraic functions
- Limit of Non-Algebraic functions: Logarithmic and Exponential functions.
- Continuity and Discontinuity at a point and over an interval.

Module 2: Differentiation:
[LECTURES-12]

- Concept of derivative as a slope of a curve
- Derivatives of Algebraic, Exponential and Logarithmic functions including : Product Quotient and Chain rule with numerical applications
- Unconstrained Optimization Techniques with economic applications to profit maximization, cost minimization and related problems.

- Partial differentiation of functions:
  Total differentiation
- Homogeneous functions
- Euler's Theorem
- Cobb Douglas Production Function: Returns to Scale
- Constrained optimization of the Utility and Production Functions with numerical applications

Module 3: Integration **[LECTURES-10]**

- Integration of a function: indefinite functions of algebraic, exponential and logarithmic functions.
- Definite Integrals with application
- Economic Applications :
  Revenue and Cost Functions
  Consumer's and Producer's Surplus
  Learning Curve
  Coefficients of Income Inequality: Pareto's and Gini coefficient.

Module 4: Linear Algebra: **[LECTURES-10]**

- Matrices and Determinants:
  Types of Matrices
  Elementary Operations: Addition, Subtraction, Multiplication and Inverse of a Matrix.
  Concept of Determinant and its evaluation for (2 X 2), (3 X 3) case.
  Cramer's Rule
- Input-Output Analysis
- Structure of a Linear Programming Problem: Objective function, Set of constraints
  and Non-Negative constraints.
  Graphical solution
  Formulation of the dual of a Linear Programming Problem.

Section II

Module 5: Basic Statistical Concepts and Measures of Central Tendency: **[LECTURES-12]**

5.1 Basic Statistical Concepts:

- The concepts of primary and secondary data, variates and attributes, population and samples with numerical illustrations.
- Graphical presentation of data: Histograms, Frequency Polygons and Ogives.

5.2 Measures of Central Tendency :

- Computation of arithmetic mean, median and mode from raw data
  Ungrouped and Grouped (tabulated data)
- Properties of an ideal average.

5.3 Measures of Dispersion:

- Absolute and Relative : Range and Coefficient of range
- Quartile deviation and coefficient of quartile deviation
- Standard deviation and coefficient of variation
- Concept of Skewness and Kurtosis.

Module 6: Correlation and Regression: **[LECTURES-10]**

- Meaning and Types of correlation
- Determination of Correlation by : Scatter diagram, Karl Pearson's product moment,
  Spearman's Rank correlation (including repeated ranks)
- Regression : Concept of Least Squares and Lines of Regression
  Coefficient of correlation from regression parameters.

Module 7: Time Series and Index Numbers: **[LECTURES-10]**

7.1 Time Series:

- Components of Time Series : Secular trend, Seasonal component, Cyclical and Irregular Component
- Measurement of Trend :
  Method of moving averages
  Least square method
- Trend forecasting

7.2 Index Numbers:

Simple and Weighted Index Numbers
Average of Price Relatives
Fixed base and Chain base Index Numbers
Laspeyere's, Paasche's and Fisher's Price Index Numbers
Cost of living Index Numbers
Problems involved in the construction of Index Numbers
Uses of Index Numbers

Module 8: Probability: **[LECTURES -06]**

- Concept: Experiment, Sample Space, Events, Random Variable, Probability of an Event, Permutation, Combination, and Fundamental Principle.
- Mathematical Expectation, Variance

- Addition and Multiplication Theorem
- Conditional Probability.
- Binomial and Normal Distribution

References

- Mathematical Economics: D Bose
- Elementary Mathematics for Economist: Modak, Patkar and Purohit.
- Mathematical Analysis for Economists : R G D Allen
- Fundamentals of Mathematics for Economists : A C Chiang
- Fundamentals of Business Mathematics : Dr. Bindra Prasad and Dr. P K Mittal
- Economic Theory and Operations Analysis : W J Baumol
- Micro Economic Theory : Henderson and Quandt
- Elementary Statistics for Economists : T Yamane
- Mathematics for Economists : B C Mehta and G M K Madnani
- Statistical Methods : S P Gupta

T.Y.B.A. (ECONOMICS) REVISED SYLLABUS TO BE INTRODUCED FROM ACADEMIC YEAR 2005-2006

RESEARCH METHODOLOGY

Section I

Module 1: Nature and scope of research in Economics:

[LECTURES -08]

- Meaning of Research-Methodology-Research Process.
- Research in Social Sciences and Physical Sciences
- Types of Research: 1. Theoretical and Applied & 2. Qualitative and Quantitative
- Significance of Economic Research
- Problems encountered by researchers in India.

Module 2: Research Design: **[LECTURES-10]**

- Definition and selection of the research problem
- Meaning and types of research design
- Major steps in preparing a research design.
- Evaluation of research design.

Module 3: Methods of Data collection: **[LECTURES-10]**

- Primary and secondary data.
- Observation method.
- Interview method.
- Data collection through schedules and questionnaires.
- Census and Sample survey- Criterion of Good Sample, Choice of Sample.
- Different methods of Sampling→Probability and Non-Probability methods.
- Sampling and Non-sampling errors.

Module 4: Presentation and Elementary Analysis of data:

[LECTURES-10]

- Classification and tabulation.
- Frequency curves, Histograms, Polygon.
- Measures of Central Tendency: Mean, Median and Mode.
- Dispersion: Standard Deviation, and Coefficient of Variation.

Section II

Module 5: Advance Analysis of Data: **[LECTURES-12]**

- Correlation: Pearson's and Spearman's.
- Two Variable Linear Regression Analysis : Principle of Least Square.
- Time Series Analysis- Components Estimation of trend : Moving Average and Linear Trend.

Module 6: Index Numbers: **[LECTURES-12]**

- Index numbers as a comparative tool.
- Simple and Composite Price Index Numbers (weighted and unweighted).
- Laspeyre's, Paasche's and Fisher's Price Index Numbers.
- Cost of living Index Numbers.
- Deflator.
- Concept of Wholesale Price Index Number.
- Uses of Index Numbers.
- Problems involved in the construction of Index Numbers.

Module 7: Testing of Hypothesis: **[LECTURES-10]**

- Definition of a Hypothesis.
- Types of Hypotheses.
- Role of a Hypothesis.
- Criteria of a Good Hypothesis.
- Null and Alternative Hypothesis, Type I and Type II errors- Level of Significance.

Module 8: Report Writing: **[LECTURES-08]**

- Meaning and Significance of a Research Report.
- Types of Reports.
- Structure of a Research Report: Title to Bibliography.
- Precautions to be taken while writing a Research Report.

References:

Ahuja, R., *Research Methodology*, Jaipur: Rawat Publications.

Gupta, S.P. *Statistical Methods*, New Delhi: Sultan Chand and Sons.

Israney, S.M., *Research Methodology in Social Sciences (with special Reference to Economics and Commerce)*, Mumbai: Universal Publications.

Jain, G.L., *Research Methodology-Methods, Tools and Techniques*, Mangal Deep Publications.

Kothari, C.R., *Research Methodology Methods and Techniques*, New Delhi: Wishwa Prakashan.

Kumbhojkar, C.V., *Research Methodology*, Bombay: Seth Publishers.

Sadhu, A.N.and Singh, Amarjit, *Research Methodology in Social Sciences*, Bombay: Himalaya Publishing House.

Sancheti, D.C. and Kapoor, V.K., *Statistics: Theory Methods and Application*, New Delhi : SultanChand and Sons.

Sharma, K.R., *Research Methodology*, New Delhi: National Publishing House.

Wilkinson, T.S.and Bhandarkar, P.L. *Methodology and Techniques of Social Research*, Bombay: Himalaya Publishing House.

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T.Y.B.A. (ECONOMICS) REVISED SYLLABUS TO BE INTRODUCED FROM ACADEMIC YEAR 2005-2006

ECONOMICS OF RURAL DEVELOPMENT

SECTION - I

1. (a) ***RURAL DEVELOPMENT :*** **[LECTURES-10]**

Concept, Nature, Scope and Significance - Rural Development and Economic Development, Rural Social Structure - Nature of Rural Society - Characteristics of Indian Rural Society - Caste and Class Structure - Status of Women in Rural Society, The Problems of Women in Rural Society - Measures to solve the Problems : Legal, Constitutional - Welfare And Developmental.

(b) ***AGRARIAN STRUCTURE:***

Characteristics and Trends in Land and Labour Markets- Landlessness, Unemployment and Underemployment in Rural Areas-Rural Poverty - Measures to Eradicate Poverty & Unemployment. Impact of Liberalization, Privatization and Globalisation on Rural Society and Emergence of Voluntary Sector -Role in Rural Development. WTO and Agriculture.

2. APPROACHES TO AND PLANNING FOR RURAL DEVELOPMENT: **[LECTURES-10]**

All round verses sectoral Approach - Area and Target Group Approaches-Asset Distribution and Rural Employment Approaches; Concept of Planning, Decentralized Planning and Multi-Level Planning. Role of Planning in Developing Countries with special reference to India, Planning for Rural Development. Planning at Central, State, District and Block Levels, Village level Planning.

3. ***HUMAN RESOURCE AND RURAL DEVELOPMENT:*** **[LECTURES-10]**

Role and importance of Human Resource-Human Resource Development -Concept of Human Resource Development (HRD). Various aspects of human resource development - Health, education, family welfare, nutrition, drinking water, sanitation, social justice in HRD.

4. *INFRASTRUCTURE AND RURAL DEVELOPMENT* [LECTURES-10]

Role and importance of infrastructure in rural development - Marketing of agricultural produce - malpractices, Measures to improve agricultural marketing: co-operative Markets, Regulated Markets, State Trading and Other measures, Rural - Urban Imbalance.

SECTION -II

5. *RURAL INDUSTRIALISATION AND ALLED ACTIVITIES* [LECTURES-10]

Need and importance of rural industrialization , Role of District Level Industrial Corporations, State Financial Corporations & Khadi & Village Industries Corporations.

Importance of allied activities - Horticulture, Fishery, Dairy Development, Forest - based industries, Poultry farming.

6. *FINANCE FOR RURAL DEVELOPMENT:* [LECTURES-10]

Problem of rural indebtness, sources of rural finance, Institutional and Non-institutional, Role of Money Lenders, Co-operative Finance:-Structure, working and limitations, Commercial Banks, Regional Rural Banks, NABARD, Lead Bank Scheme and Service Area Approach - Special Provisions for weaker sections.

7. *ADMINISTRATION FOR RURAL DEVLEOPMENT:* [LECTURES-10]

Administrative structure at Central, State, District, and Taluka Levels, Panchayat Raj Institutions Composition, functions-working , need to reform, 73^{rd} constitutional Amendment and its implementation in Maharashtra, Role of NGOs in rural development.

8. *RURAL DEVELOPMENT EXPERIENCES IN INDIA AND CHINA:* [LECTURES-10]

Rural Development during various plans-objectives and strategies since 5^{th} five year plan - Performance of poverty alleviation Programmes with reference in IRDP, Impact on rural poverty - EGS in state of Maharashtra and Other Programmes.

References:

1. Dantwala M.C. (Ed)(1990)., Indian Agricultural Development Since Independence, Oxford and IBH Publication, Delhi, Second Revised Ed.
2. Desai Vasant (1988), Rural Development, Vol.I, Issues and Problems, Himalaya Publishing House.
3. Desai Vasant, (1988), Fundamentals of Rural Development, A Systems Approach, Himalaya Publishing House.
4. Memoria C.B.(1984), Agricultural Problems of India, Kitab Mahal.
5. Mishra, S.M. (1981), Rural Development and Panchayati Raj, Concept Publishing House.
6. Mishra, R.P. and Sundaram K.P.M.,(1978), Multilevel Planning and Integrated Rural Development, Concept Publishing House.
7. Prasad Kamta, (1988), Planning at the Grass Roots, Sterling Publishers.
8. Reddy, Venkata, (1988), Rural Development in India, Poverty and Development, 1st Ed. Himalaya Publishing House.
9. Singh Katar, (1986), Rural Development , Principles, Policies and Management, Sage Publications.
10. Thaha, M and Prakash Om, Integrated Rural Development, Sterling Publishers Pvt. Ltd.
11. Gokhale S.D., and Kurup M.R.(Ed)(1986), Rural Development, University of Bombay Publication, 1986.
12. Yusuf, S and D. Perkins, (1984), Rural Development in China, John Hopkins University Press, London.
13. GOI (Various Issues); Economic Survey.
14. Institute of Applied Manpower Research; Reforms and Employment, GOI, New Delhi.

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PAPER VIII

Introduction To Econometrics

OR

History of Economic Thoughts

OR

Economic History of India

OR

International Economic Policy and Practice

OR

Development Issue of Maharashtra Economy

OR

Economics of Gender and Development

T.Y.B.A. (ECONOMICS) REVISED SYLLABUS TO BE INTRODUCED FROM ACADEMIC YEAR 2005-2006

INTRODUCTION TO ECONOMETRICS

SECTION I

Module 1: Elements of Probability **[LECTURES-05]**

- Random variables and probability distributions
- Bivariate probability distribution
- Mathematical Expectation and Variance
- Probability distributions: Binomial, Poisson and Normal distributions along with their uses.
- Law of Large Numbers and Central Limit Theorem (without proof)

Module 2: Sampling and Statistical inference: **[LECTURES-15]**

- Statistical Inference : Concept and Nature
- Theory of Estimation : Point and Interval Estimation
- Desirable properties of a point estimator
- Confidence interval and Confidence limits.

- Statistical Hypothesis : Null and Alternative Hypothesis , Simple and Composite Hypothesis
- Problem of testing of Hypothesis and error in decision making : Type I and Type II error, Level of significance, Tests of significance.
- Test of significance based on : Large sample test and Small sample tests - Z and Student's t distribution (Population mean and difference between two means)
- Chi-square for specified value of population variance and goodness of fit.

Module 3: Econometric Methods and Models: **[LECTURES -10]**

- Definition and scope of econometrics
- Relationship between Econometrics, Mathematical Economics and Statistics
- Nature of Econometric Approach
- Methodology of Econometric Approach
- Econometric Models
- Types and Forms of models: Endogenous and Exogenous variables
- Structural and Reduced form - Identification Problem

Module 4: Regression Analysis: **[LECTURES-10]**

- Concept of regression
- Two variable regression analysis : Concept of Population Regression Function (PRF)
  Stochastic specification of the PRF, Nature of the stochastic disturbance term,

  Sample Regression Function (SRF), Method of Ordinary Least Squares (OLS), Precision of Standard Errors of Least Squares estimate,
  Properties of the Least Square Estimator: The Gauss Markov Theorem.
  The coefficient of determination r^2: a measure of 'goodness of fit ' (ANOVA)
  Extension (without proof) to the three variable case: formulation of the general linear model in the matrix form.
  Tests based on Student's t and F distribution.

SECTION II

Module 5: Problems and applications of single equation models: **[LECTURES-09]**

- Autocorrelation, Heteroscedasticity and Multicollinearity: Nature of the problem, consequences, detection and remedial measures.
- Statistical estimation of demand function based on cross section data : Engel's curve
- Econometric issues in the statistical estimation of demand function.

Module 6: Input-Output Analysis: **[LECTURES-08]**

- The inter-industry accounting system : Input- Output technological coefficients
- Assumptions of Input-Output analysis : the sector , the input function
- Static and Dynamic models
- Hawkins-Simon condition

Module 7: Linear Programming: **[LECTURES-12]**

- Concept of objective function, set of constraints, non-negative constraints
- General formulation of a Linear Programming Problem (LPP)

- Methods of solution :
  Graphical method: Maximization and Minimization along with special cases:
  Degenerate optimal (Redundant constraints), Multiple optimal, Non-feasible solution and Unbounded optimal solution.
- Simplex Method : The Big M method
- The Transportation problem as a special case of LPP:
  Methods of Initial Basic Feasible Solution using: North-West Corner Method, the Least Cost Method and Vogel's Approximation Method.

Module 8: Game Theory: **[LECTURES-12]**

- Concept of game, strategy, two person zero sum game, pay-off matrix, maximin and minmax principles, saddle point, Nash equilibrium.
- Pure strategies
- Mixed strategies: Graphical solution of mixed strategies.

Reference List

- Statistics (Theory, Methods and Application): D C Sancheti and V K Kapoor
- Theory of Econometrics : A Koutsoyiannis
- Introduction to Econometrics : Maddala
- Basic Econometrics : Damodar N Gujarati
- Linear Programming and Economic Analysis : R Dorfman, P Samuelson, R M Solow

Problems in Operation Research : P K Gupta and Manmohan.
Sheldon M. Ross ( ), A First Course in Probability, Pearson Publishing House.

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T.Y.B.A. (ECONOMICS) REVISED SYLLABUS TO BE INTRODUCED FROM ACADEMIC YEAR 2005-2006

HISTORY OF ECONOMIC THOUGHT

SECTION: I

1. EARLY PERIOD: **[LECTURES-08]**

Mercantilism: main characteristics; Thomas Mun – Physiocracy: natural order, primacy of agriculture, social classes, Tableu Economique, taxation.

2. Classical Period: **[LECTURES-18]**

A. Adam Smith – division of labour, theory of value, capital accumulation, distribution, views on trade, economic progress; David Ricardo- Value , theory of rent, distribution, ideas on economic development and international trade.

B. Thomas R. Malthus – theory of population, theory of gluts;Karl Marx – dynamics of social change, theory of value, surplus value, profit and crisis of capitalism; Economic ideas of J.B. Say, J.S. Mill; Historical School- Senior , List.

3. Marginalists:-JEVONS TO FISHER: **[LECTURES-14]**

The marginalist revolution: Jevons, Walras Bohm Bawark, Wicksell and Fisher.

SECTION:II

4. Marginalist : Marshall To Schumpeter **[LECTURES-12]**

role of time in price determination, economic methods, ideas on consumer's surplus, elasticities, prime and supplementary costs, representative firm, external and internal economies, quasi-rent, organisation as a factor of production, nature of profits; Pigou: Welfare economics; Schumpeter: role of entrepreneur and innovations.

5. Keynesian Ideas: **[LECTURES-14]**

The aggregate economy, Liquidity Preference Theory and Liquidity trap, Marginal Efficiency of Capital and Marginal Efficiency of Investment, wage rigidities, underemployment equilibrium, role of fiscal policy: deficit spending and public works, multiplier principle, cyclical behavior of the economy, uncertainty and role of expectations, impetus to economic modeling.

6. Indian Economic Thought: [LECTURES- 14]

Modern Economic Ideas: Naoroji, Ranade, R.C.Dutt and M.N. Roy, Economic ideas of Gandhi: Village, Swadeshi, Place of machine and labour, Cottage industries, trusteeship. Gadgil: Co-operation as a way of life and strategy of development. Mahalnobis and Wage Goods Models on Economic Developments.

Reference:

1. Blackhouse, R. (1985), A History of Modern economic Analysis, Basil Balckwell, Oxford.
2. Ganguli, B.N. (1977), Indian Economic Though: A 19 Century Perspective, Tata McGraw Hill, New Delhi.
3. Gide, O. and G. Rist (1956), A History of Economic Doctrine, 2nd Edition o, George Harrop & Co., London.
4. Grey, A. and A. E. Thomson (1980), The Development of Economic Doctrine, Longman Group, London.
5. Kautilya (1992), The Arthashastra, Edited, Rearranged, Translated and Introduced by L.N. Rangarajan, Penguin Books, New Delhi.
6. Roll, E (1973), A History of Economic Thought, Faber, London.
7. Schumpeter, J.A. (1954), History of Economic Analysis, Oxford University Press, New York.
8. Seshadri, G.B. (1997), Economic Doctrines, B.R. Publishing Corporation, Delhi.
9. Blaug, M (1997), Economic Theory in Retrospect: A History of Economic Thought from Adam Smith to J.M. Keynes, (5th Edition), Cambridge University Press, Cambridge.
10. Dasgupta. A. K. (1985), Epochs of Economic Theory, Oxford University Press, New Delhi.
11. Gandhi, M.K. (1947), India of My Dreams, Navajivan Publishing House, Ahmedabad.
12. Koot, G.M. (1988), English Historical Economics L: 1850-1926, Cambridge University Press, Cambridge.
13. Rao, M.N., (1964), Memoirs, Allied Publishing House, Bombay.
14. Schumpeter, J.A. (1951), Ten Great Economist, Oxford University Press, New York.
15. Shinoya, Y. (1997), Schumpeter and the Idea of Social Science, Cambridge University Press, Cambridge.

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T.Y.B.A. (ECONOMICS) REVISED SYLLABUS TO BE INTRODUCED FROM ACADEMIC YEAR 2005-2006

ECONOMIC HISTORY OF INDIA

SECTION- I

1. INDIA PRIOR TO BRITISH RULE (LECTURES- 12)

The State Of The Indian Economy Prior To The British Rule: Nature Of The Communities - Agriculture : Land Tenure Systems And Their Impact On Production And Distributive Justice; Industry And Handicrafts.

Trade And Commerce, Banking And Currency System, Transport And Communication, Public Work, Taxation, Nature And Structure Of Socio-Economic Classes With Special Reference To Caste System, Status Of Women.

2. INDIA DURING BRITISH RULE (LECTURES-15)

Impact Of The British Rule On Indian Economy - I

(b) Agriculture: Change in Land Tenure Systems, Commercialization Of Agriculture, Irrigation - Famines - Bengal Famine.

Industry : Decline Of Handicrafts And Risk Of Modern Industry, Development Of Towns, De-Industrialisation Thesis; Trade And Transport : Effect Of The Opening Of Suez Canal, Development Of Railways, Credit And Banking.

(c) The Impact Of The British Rule On The Indian Economy - II, National Income: Composition, Growth And Distribution; Evolution Of Trade Union Movement. Population: Growth Of Population, Urbanizations - The Occupational Structure: Changes And Impact, Impact On Caste System And Status Of Women.

3. EFFECTS OF MAJOR WORLD EVENTS ON INDIAN ECONOMY : (LECTURES-13)

Effects Of Major World Events On Indian Economy: Effects Of The First World War On Agriculture, Industry, Trade And Tariff Policy, Foreign Investments And Exchange Rate Policy - Currency And Banking - The Great Depression And The Indian Economy - Evolution Of

Central Banking And Establishment Of Reserve Bank Of India;- Outflow Of Gold - Effects Of Second World War On Industrialization And Inflation - Economic Impact Of Partition - Trade Union Movement.

SECTION -II

4. INDIAN ECONOMIC THOUGHT (LECTURES - 12)

Indian Economic Thought: Economic Case Against The British Rule - Dadabhai Naoroji' Theory Of Drain - Home Charges, Ranade's Case Of Protection, Economic Nationalism, Gokhale's Critique Of British Expenditure Policy, Gokhale On Development And Welfare, R.C Dutt On Imperialism , Land Tax And Public Finance, Swadeshi Movement, Gandhian Economics, Ambedkar's Case for State Socialism.

5. EVOLUTION OF ECONOMIC PLANNING (LECTURES- 13).

Evolution Of Economic Planning - Early Thinking On Economic Planning In India -Visweswaraya And Industrialization.- The Bombay Plan, People's Plan. - National Planning Committee, Economic Philosophy behind Indian Planning.

6. CO-OPERATIVE MOVEMENT & CONTEMPORARY ECONOMIC DEVELOPMENT IN INDIA: (LECTURES-15)

Co-Operative Movement In India - Economic And Social Impact - Local Self Government - Democratic Practices - Twenty Point Economic Program- Poverty Alleviation.- The New Economic Policy Of 1991 - Changing Role Of the State.

Additional References :

1. Gadgil, D.R. Industrial Evolution Of India.
2. Muranjan S.K ,Modern Banking
3. Dantwala, M.L., India Planning For Industrialisation.
4. Kangle R. P., Kautilya's Arthashastra (Ed)
5. Habib, I, The Agrarian System Under The Moghuls
6. Joshi V & Little, IMD, India : Macro Economics And Political Economy 1964-1991.
7. Das G. India Unbound.
8. Dutt and Sundaram, Indian Economy, S. Chand Publications, New Delhi.

9. Kapila Uma (ed), Indian Economy, Academic Foundation, New Delhi.
10. GOI, Report of Co-operative Movement in India, (1939-40).
11. GOI, Report of National Planning Committee.
12. Dharma K., (1992), The Cambridge Economic History of India, Vol.11, Orient Longman.

T.Y.B.A. (ECONOMICS) REVISED SYLLABUS TO BE INTRODUCED FROM ACADEMIC YEAR 2005-2006

PAPER VIII
INTERNATIONAL ECONOMIC POLICY AND PRACTICE

SECTION - I

Module: - Importance of Trade and Trade theories:
(LECTURES- 12)

1.

Importance of the study of International Economies; Inter-Regional and International Trade; Theories of cost advantage: Absolute Advantage; Comparative Advantage and Opportunity Cost, Heckscher-Ohlin-Theory of trade - factor abundance: two criteria - physical criterion and price criterion. Role of Dynamic Factors i.e. Change in Tastes, Technology and Factor Endowments in explaining Emergence of trade; Role of Factor Accumulation- the Stolper- Samuelson Theorem - The Rybczynski Theorem, Trade & Growth.

2. **Module: Terms of Trade and Polices:**
(LECTURES- 12)

Importance of terms of trade in the theory of trade - Doctrine of reciprocal demand and offer curve analysis- its importance in changes in terms of trade- **Exim Policy 2002- 07,** Instruments of Export Promotion measures (SEZ, 100% EOUs, Subsidies and Incentives, Export Promotion Council and Boards), Institutional Framework for Export Promotion - Exim Bank, ECGS, DGFT - Agricultural Export Promotion.

3. **Module: balance of payment**
(LECTURES- 08)

Meaning and components of Balance of Payments, Equilibrium and Disequilibrium in balance of payments- measures to correct balance of payment disequilibrium - devaluation: expenditure switching policy, effects of evaluation, Marshall -Learner condition.

Balance of payments of India (pre and post 90's) - persistent deficit and recent surplus in balance of payments, causes and consequences- measures adopted by the government in relation to balance of payment situations

4. **Module: Foreign Exchange Rate:**

(LECTURES- 8)

Concepts: - Spot and Forward rates- Foreign Exchange rate determination -flexible exchange rate-(clean & dirty float) -interrelationship between exchange rates and interest rates.

Exchange rate system in India: Managed Floating, Current and Capital Account Convertibility and their impact FEMA.

SECTION - II

5. **Module: Regional Economic co-operation:**

(LECTURES- 10)

Forms of economic cooperations-Customs Union, free trade areas and Cartels, regionalism - European Union (EU), North American Free Trade Association (NAFTA),- Associations of South East Asian Nations (ASEAN), SAARC and SAFTA.

6. **Module: Emerging New International Economic Order:**

(LECTURES- 10)

GATT- Uruguay Round , WTO: WTO Agreements-Dispute Settlement Mechanism-, Impact of WTO on LDCs and India.

7. **Module: International Financial Institutions and international debt problems:**

(LECTURES- 12)

IMF, World Bank, Asian Development Bank (ADB) - their role with special reference to India.

Global Economic crisis - South East Asian Crisis and Lesson for India, International Debt Problems - Emerging Global Financial Architecture.

8. Module: Role of Foreign Capital flow:

(LECTURES- 08)

Factors determining Foreign Investment - FDI and portfolio investment ,Foreign investment and Role of MNCs in India.

REFERENCES: -

1. International Economics by Robert J.Carbaugh (Thomson Southwestern publishers)
2. International Economics by Richard. L.Sprinkle (Prentice-Hall of India private Ltd)
3. Indian Foreign Trade by Raj Aggrawal (Excel Books Publications)
4. International Economics by Reeta Mathur (Sublime publications, Jaipur)
5. International Economics: Theory and policy by Paul.R.Krugman, Maurice Obstfeld (Addison-Wesley Educational Publishers)
6. International Economics by Dennis.R.Appleyard, Alfred.J.Field (Addison-Wesley Educational Publishers)
7. International Economics with Xtra! By Robert J.Carbaugh (Thomson Southwestern publishers)
8. Indian Economy by Dutt & Sundaram, (S.Chand Publishers)
9. RBI; Report on Currency and Finance : 2002-2003, RBI, Mumbai.

WEBSITES: -

1. For assessing Globalisation: - **www.worldbank.org/html/extdr/pb/globalization/index.htm**
2. For information on Asia-Pacific Co-operation: - **www.apecsec.org.sg**
3. For information on NAFTA: - **www.naid.sppsr.ucla.edu**
4. For information on ASEAN: - **www.aseansec.org**
5. For Currency information: - **www.bloomberg.com**
6. For information on The Asian Development Bank: - **www.adb.org**
7. For information on IMF: - **www.imf.org**
8. For information on World Bank: - **www.worldbank.org**
9. For information on Asian Financial Markets: **www.nyu.edu/globalcro/**

10. For information on The Institute for International Economics:-

www.iie.com

11. For information on India's Foreign Trade:

www.indiadata.com, **www.indiainfoline.com**

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DEVELOPMENT ISSUES OF MAHARASHTRA ECONOMY

SECTION: I

Module:1. State Domestic Product: [LECTURES-10]

State Domestic Product since 1960-trends, per capita income, sectoral Distribution, income-distribution-population, unemployment and poverty.

Module:2: Agriculture: [LECTURES-10]

Agriculture in Maharashtra: Agricultural production trends, cropping pattern, land reforms, agricultural labour, Employment Guarantee Scheme, agricultural marketing, agricultural finance, Green Revolution.

Module 3 Agro-Industries & Services Sector in Maharashtra: [LECTURES-10]

Their significance, role and significance of co-operatives with reference to sugar, cotton.

New Thrust in Services Sector such as Information Technology, ITES, Hospitability Management, Tourism.

Module4. Inter- Regional Disparities in Development: Development Boards: [LECTURES-10]

(Western Maharashtra, Marathwada and Vidharba Pattern, growth and limitations of industrialization in Maharashtra, Role of MIDC, SICOM, MSFC.

SECTION:II

Module 5: Industrial Labour: [LECTURES-10]

Growth and Problems of Trade Unions, Labour Welfare, Industrial Disputes, informal and contract labour, Rehabilitation of Mill Workers in Mumbai- Problems and Prospects.

Module 6: Socio-Economic Infrastructure: [LECTURES-10]

Different Patterns of Infrastructural Funding like BOT, BOOT etc., Education, health, Power, Irrigation, Transport and Communication.

Module 7:

A. **Effects of Urbanization on Economic Development.**

B. **Urbanization Problem** :with Special Reference to Mumbai and Other Major Cities in Maharashtra. **[LECTURES-10]**

Module 8 :

A. **Importance of Primary, Secondary, Tertiary Sectors in Development of the State.**

B. **Role of Government** :in Primary – Secondary and Tertiary Sectors. **[LECTURES-10]**

References:

1. Economic Surveys of Maharashtra published by Government of Maharashtra.
2. Annual Report of Maharashtra published by Maharashtra Economic Development Council , Mumbai.
3. M.I.D.C. - Report

T.Y.B.A. (ECONOMICS) REVISED SYLLABUS TO BE INTRODUCED FROM ACADEMIC YEAR 2005-2006

PAPER-VIII

ECONOMICS OF GENDER AND DEVELOPMENT

SECTION :I

Module:.1. **Introduction:** **[LECTURES-15]**

Importance and concepts of women studies – Women in patriarchal and matriarchal societies. Economic basis and functioning of patriarchy in developed and LDCs, particularly India; Gender bias in the theories of value, distribution, and population.

Module:2. Demographic Aspects: **[LECTURES-10]**

Demography of female population: Age structure, mortality rates, and sex ratio- Causes of declining sex ratios and fertility rates in LDCs and particularly India- Theories and measurement of fertility and its control; Women and their access to nutrition, health, education, and social and community resources, and their impact on female mortality and fertility, economic status, and in work participation rate.

Module:3 Women's Work and Women in Decision Making: **[LECTURES-15]**

Concept and analysis of women's work: Valuation of productive and unproductive work; visible and invisible work; paid and unpaid work; economically productive and socially productive work.

Factors affecting decision making by women; property rights, access to and control over economic resources, assets; power of decision making at household, class, community level; Economic status of women and its effect on work-participation rate, income level, health, and education in developing countries and India.

SECTION :II

Module:4 Women and Labour Markets: **[LECTURES-15]**

Factors affecting female entry in labour market: supply and demand for female labour in developed and developing countries, particularly India.

Wage differentials Determinants of wage differentials: gender, education, skill, productivity, efficiency, opportunity, structure of wages across regions and economic sectors.

Impact of technological development and modernization on women's work participation in general and agriculture, non-agriculture rural activities, small and cottage industries and organized industry.

5. Social Security and Social Protection for Women: **[LECTURES-15]**

Social security of women: entitlements, ensuring economic independence and risk coverage, access to credit and insurance markets; Role of voluntary organizations, self help groups in providing social security. Schemes for safety net for women; Need for female labour unions; affirmative action for women and improvement in their economic and social status.

6. **Gender Planning, Development Policies and Governance:**

[LECTURES-10]

Gender and development indices; Mainstreaming gender into development policies; Gender-planning techniques; Gender sensitive governance; Paradigm shifts from women's well being to women's empowerment; Democratic decentralization (PanchayatS) and women's empowerment in India.

References:

1. Boserup, E. (1970), Women's Role in Economic Development, George Allen and Unwin, London.
2. Desai, N. and M. K. Raj (Eds.) (1979), Women and Society in India, Research Centre for Women Studies, SNDT University, Bombay.

3. Government of India (1974), Towards Equality-Report of the Committee on the Status of Women in India, Department of Social Welfare, Ministry of Education and Social Welfare, New Delhi.

4. Krishnaraj, N., R. M. Sudarshan and A. Shariff (1999), Gender, Population and Development, Oxford University Press, New Delhi.

5. Seth, M (2000), Women and Development; The Indian Experience, Sage Publications, New Delhi.

PAPER IX

Financial Economics

OR

Entrepreneurship and Small Industrial Management
(No Draft is yet received)

OR

Export Management

OR

Computer Application to Economics Analysis
(Already Revised Two Years Back)

OR

Environmental Economics

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FINANCIAL ECONOMICS

PAPER -IX

1. INTRODUCTION: [LECTURES-10]

Meaning & Scope Of Financial Economics - Relationship Of Finance To Economics And Accounting - Significance Of Finance In Economic Development - Role And Functions Of Financial Manager - Organization Of Finance Function - Sources of Financial Information : news papers, Journals and Magazines in the field of finance and banking, Financial Services, Company and Supplementary data.

2. FORMS OF BUSINESS ORGANISATION: [LECTURES-08]

Types and objectives Of Business Organizations - Sole Proprietorship - Partnership - Joint Stock Companies / Corporation/ Private And Public Limited Companies-MNCs, Joint Ventures.

3. SOURCES OF FINANCE [LECTURES-12]

Short and Long Term Finance - Long Term Finance: Self Financing, Retained Earning, Equity, Debentures, Term Loans from Banking and Non-banking Institutions, Company Deposits, Depreciation - Importance ,practices and Determinants of Dividend Policy - Kinds of Dividend Policy.

4. MARKET FOR CORPORATE SECURITIES: [LECTURES-10]

Meaning of Capital Market, Role of Capital Market in Economic Development - Types : Primary New Issue Market (NIM) and Second (Stock Exchanges.) - Their Functions and Recent Development -- RBI/SEBI as regulating authorities of Financial Market.

5. CAPITAL BUDGETTING [LECTURES-10]

Meaning and Significance of Capital Budgeting - Process of Capital Budgeting - Methods of Investment Appraisal - Pay Back Period (PBP), Average Rate of Return (ARR), Net Present Value(NPA), Internal Rate of Return(IRR)- Comparison of Net Present Value & Internal Rate of Return - Risk and Uncertainty - Risk Vs. Uncertainty - Types and causes of Business Risk.

6. FINANCIAL STATEMENTS [LECTURES-10]

Balance Sheet & Profit and Loss Account; Basic Concepts, Contents and Composition - Income Statement : Basic Concepts, Contents & Composition.

Ratio Analysis - Meaning, Significance, Types: Liquidity, Leverage, Turnover, Profitability and Valuation (With Numerical Examples)

Note: Numerical examples should be given wherever possible.

References:

Avdhani ( ) , Financial Economics.

Chandra P. (1993), Finance Sense : An easy guide for non-finance executives.

Chandra P. (1994) Fundamentals of Financial Management, Tata Mcgraw-Hill, New Delhi.

Chandra P. (1997), Financial Management: Theory & Practice; Tata Mcgraw-Hill, New Delhi.

Kuchal, S.C. (1980) , Corporate Finance, Principles and Problems. Chaitanya Publication, New Delhi.

Kuchhal, S.C. (1982), Financial Management, Chaitanya Publication, Allahabad.

Kuchhal, S.C. (1982), Financial Management, Chaitanya Publication, Allahabad.

Mansfield, E (1999), Managerial Economics, Theory, Applications and Cases, W.W. Norton & Company, New York, London.

Mathur, B.L. (2001), Element Of Relationship Of Finance To Economics And Accounting Finance, RBSA Publishers, Jaipur.

Salvator, (2003) Managerial Economics in Global Economy , Thomson Asia Pte Ltd., Singapore.

Valdez, S (2003), An Introduction to Global Financial Markets, Palgrave-McMillan, New York.

Watson, D. & T., (1998), Corporate Finance : Principles and Practice, Financial Times, Great Britain.

Raj, A.B.C. (2003), Corporate Financial Management: An Introduction , Tata McGraw-Hill Publishing Companies Ltd., New Delhi.

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Export Management

Paper - IX

MODULE 1

Significance Of Export : (LECTURES -10)

a) Export Management As A Profession - Co-Ordination And Staffing ;
b) Marketing In Foreign Countries, Regulation / Control Of Foreign Trade, Tariffs, Quotas And Other Trade Barriers.
c) Production Design Strategy / Product Development Process- Product Position : Meaning And Steps - Branding : Definition, Significance, Decision For Market And Brand Piracy.

MODULE 2

International Trade Agreements: (LECTURES - 08)

Brief Introduction To GATT With Emphasis On WTO, Trading House, EU, ASEAN, SAARC, Joint Commissions With India.

MODULE 3 (LECTURES - 05)

Tapping Foreign Markets: Trade Delegation, Exhibition, Trade Authority Of India, Export Through Festivals Participation In Trade Fairs, Maintaining Foreign Office.

MODULE 4 (LECTURES - 12)

Export Pricing: Cost Factor, Market Imperfections, Objectives Of Export Pricing, Export Assistances And Export Pricing, Some Examples Of Calculations.

MODULE 5 (LECTURE - 15)

(a) Export Finance: Its Significance, Credit Provision, Pre-Shipment Finance, Exchange Control / Regulations Mechanism, 'R' Relative, Spot and Forward Exchange Transactions, Exchange Position and Booking Of Profits, Liberalized Exchange Rate Mechanism (LERMs)

(b) **Export Promotion** : Bank Assistance And Incentives, Import Replenishments, Some Ideas Of Trade Protocols, EPZ, EPC, Commodity Boards, ITPO, ECGC, Exim Bank, Role Of Other Agencies . E.g. STC, MMTC.

MODULE 6 **(LECTURES - 10)**

(a) **Export Documents & Incentives**: Letter Of Credit, Its Mechanism, Types, Uniform Customs And Practices For Documentary Credit, Scrutiny Of Shipping Documents.

(b) **Procedures For Claiming Incentives**, Recent Changes, Cash Assistance, Import Entitlement, Certificate Of Origin , Other Procedures Relating To Shipping Forwarding, Insurance, Customs Inspection, Banking Procedures, Exchange Remittances.

References:

1. Balagopal, T A S, Export Management , Himalaya Publishing House.
2. B.Bhattacharya :Export marketing-Strategies for success - (Global Business Press,Delhi,1993)
3. Acharya & Jain, Export Marketing, Himalaya Publishing House.
4. Rathor, B.S. & Rathor, J.S. , Export Marketing, Himalaya Publishing House,1993.
5. Shiva Ramu , S , (1996), A Practical Guide For Exporters,S.Chand Publishing House, New Delhi.
6. V.H.Kirpalani:International Marketing,Prentice-Hall of India private limited,New Delhi,1987.
7. Gopalsamy:Gatt/WTO:TRIPS,TRIMS & Trade in services,S.Chand publishing house.
8. Vibha Mathur:India-European Union trade Prospects & impact of Euro.1999
9. D.M.Mithani: International Economics,Himalaya Publishing House,2003.

10. World trade & development-Economic integration,Regional blocks & Non-Members edited by Raj Kumar Sen,Kartik.C.Roy & Clement.A.Tisdell,Atlantic Publishers & Distributors,1997.

11. Exchange Control Manual-Reserve Bank Of India.

12. Government of India-Ministry of Commerce-Directorate General of Foreign Trade publication on EXIM POLICY-1997-2002.

13. SAARC-www.saarc.sec.org

14. Michael J.Artis,Frederick Nixon-The Economics of the European Union:Policy & Analysis.

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SYLLABUS FOR ENVIRONMENTAL ECONOMICS

Module I: Introduction ***(08 LECTURES)***

- What is Environmental Economics?
- Human-Environment relationship
- Demand for environmental quality
- The environment as an economic and social asset
- Sustainable Development: Basic Concepts

Module II: Property rights, externalities and Environmental problems ***(10 LECTURES)***

- Externalities and oversupply as a source of market failure
- Absence of property rights and environmental externalities
- Improperly deigned property rights systems and Coase's theorem
- Public goods and government failure

Module III: The Population Problem ***(10 LECTURES)***

- World Population growth
- Effects of economic development on Population growth and vice-versa.
- The economic approach to population control
- Population Growth and Urbanisation, Poverty, Environmental Degradation in India

Module IV: Economics of Resources ***(12 LECTURES)***

- Natural Resource Accounting and Monitoring in India
- Allocation of Depletable and Renewable Resources
- Water Resources and related problems
  - o Water Scarcity
  - o Efficient Allocation
  - o Pricing
  - o Water Problem in India and related issues
- Sustainable Development of Indian Agriculture

Module V: Pollution Control and Policies (With special reference to India) ***(10 LECTURES)***

Economics of Pollution Control: -

- Types of Pollutants
- Efficient Allocation of Pollution
- Cost Effective Pollution control Policies

Environmental Justice: -

- Incidence of Hazardous Waste Siting
- Incidence of Pollution Control costs on Industries
- Incidence on Households

Module VI: The Global Environment ***(10 LECTURES)***

Environmental issues in industrialized countries: -

- International Comparisons Of Environmental Quality
- Environmental Policy In Other Countries
- Economic Development And The Environment
- General Considerations of Environmental Degradation In Developing Economies
- Economy And Environment

International Environmental Agreements: -

- General Issues
- The Economics Of International Agreements and Treaties
- International Trade And The Environment

REFERENCES:

- Environmental and Natural Resource Economics by Tom Tietenberg (*Pearson Education*)
- Environmental Economics - An Introduction by Barry c. Field and Martha K. Field (*Mcgraw Hill*)
- Natural Resource Economics by Barry C. Field (*Mcgraw Hill*)
- Economics of Resources, Agriculture and Food Wesley D. Seitz, Gerald Nelson, Harold Halcrow (*Mcgraw Hill*)
- Microeconomics - Micheal Parkin (Chapter 20) (*Addison-Wesley*)
- Economics - Joseph Stiglitz (Chapter 21) (*Norton*)
- Ecological Economics for sustainable development by Academic Foundation
- Environmental Economics by Madhu Raj (*IVY Publishing House*)

WEBSITES

- National Centre for Environmental Economics (www.epa.gov/economics)
- Information and the Environment (www.scorecard.org)

- The Health Effects of Air Pollution in Delhi India (http://www.worldbank.org/nipr/work_paper/1860/)
- Central Pollution Control board (http://www.cpcb.delhi.nic.in/ar2002/ar1-2ch1.htm)