

TDC SYLLABUS FOR ECONOMICS

Structure of T. D. C. Pass course in Economics (Semester System)

Exam.	Paper	Name of the Course	Marks
1 st Semester	Paper-ECOP 101	Microeconomics-I	50
2 nd Semester	Paper-ECOP 201	Microeconomics-II	50
3 rd Semester	Paper-ECOP 301	Macroeconomics-I	50
4 th Semester	Paper-ECOP 401	Macroeconomics-II	50
5 th Semester	Paper-ECOP 501	Development of Indian Economy (since Independence)-I	50
6 th Semester	Paper-ECOP 601	Development of Indian Economy (since Independence)-II	50

Structure of T.D.C. Honours course in Economics (Semester System)

Exam.	Paper	Name of the Course	Marks
First Semester			
	ECOH-101	Microeconomics-I	50
	ECOH-102	Macroeconomics-I	50
	ECOH-103	Mathematics for Economics-I (for Arts)	50
	ECOH-103	Elements of Mathematical Economics-I (for Science)	50
Second Semester			
	ECOH-201	Micro Economics-II	50
	ECOH-202	Macro Economics-II	50
	ECOH-203	Mathematics for Economics-II (for Arts)	50
	ECOH-203	Elements of Mathematical Economics-II (for Science)	50
Third Semester			
	ECOH-301	Development and Environmental Economics-I	50
	ECOH-302	Public Finance	50
	ECOH-303	Development of Indian Economy (since Independence)-I	50

Fourth Semester	ECO-401	Development and Environmental Economics-II	50
	ECO-402	International Economics	50
	ECO-403	Development of Indian Economy (since Independence)-II	50
Fifth Semester	ECO-501	History of Economic Thought-I	50
	ECO-502	Statistics for Economics-I (for Arts)	50
	ECO-502	Elements of Econometrics-I (for Science)	50
Optional Papers	Paper - ECOH-503 (A) Demography-I		50
	Paper - ECOH-503 (B) Agricultural Economics-I		50
	Paper - ECOH-503 (C) Computer and Its Applications-I		50
	Paper - ECOH-503 (D) Banking and Financial Markets-I		50
Sixth Semester	ECO-601	History of Economic Thought-II	50
	ECO-602	Statistics for Economics-II (for Arts)	50
	ECO-602	Elements of Econometrics-II (for Science)	50
Optional Papers	Paper - ECOH-603 (A) Demography-I		50
	Paper - ECOH-603 (B) Agricultural Economics-I		50
	Paper - ECOH-603 (C) Computer and Its Applications-I		50
	Paper - ECOH-603 (D) Banking and Financial Markets-I		50

Students of Fifth and Sixth Semester Economics (Honours) will have to choose one optional paper to be offered by the college depending on availability of faculty.

FIRST SEMESTER
B.A./B.SC. (HONOURS) COURSE
Paper – ECOH 101 : MICRO ECONOMICS-I

Full Marks : 50
Pass Marks : 17

Unit-I Introduction to Micro Economics

Nature and Scope of micro economics, the basic problem of choice, Positive and Normative economics, Notions of equilibrium – Static, dynamic analysis, Concepts of Optimisation. (15 hours)

Unit-II Demand and Supply

The concept of demand and demand function, market demand function, market supply function, market equilibrium, the impact of changes in demand and supply on market equilibrium, stability of equilibrium, Elasticity of demand and supply, applications of demand and supply functions. (12 hours)

Unit-III Theory of Consumer's Behaviour

Marshallian Utility analysis, the indifference curve approach – properties, consumer's equilibrium, the income effect and the substitution effect – the Giffen Paradox, Engel Curve, Hicksian and Slutsky methods of separating income effect and the substitution effect, the revealed preference approach, derivation of Market demand curve from indifference curve. (18 hours)

Unit-IV The Theory of Production

The concept of production function-production with a single variable input-total, average and marginal products, Stages of production, returns to scale, production with two variable inputs, the Isoquant, Isocost – Producer's equilibrium, Cobb-Douglas production function – its Properties, Elasticity of substitution. (15 hours)

Unit-V Theory of Costs and Revenue

Different concepts of cost and revenue, cost curves, short-run cost analysis, long-run cost analysis-relation between short-run and long-run costs, derivation of the cost function from the expansion path, Cost function for Cobb-Douglas and CES production function. (15 hours)

Basic Readings :

1. Text Books :

- 1) A. Koutsoyiannis : Micro Economic Theory, Macmillan Press, London.
- 2) Gravelle and Rees : Micro Economics, Oxford.
- 3) G. S. Maddala, and Ellen Miller : Micro Economic Theory, McGraw Hill Company.
- 4) David M. Krep : A Course in Micro Economic Theory, Princeton University Press.

- 5) Robert S Pindyck and Daniel L. Rubinfeld : Micro Economics. Prentice Hill, New Delhi.
- 6) J. M. Henderson and R. E. Quandt : Micro Economic Theory : A Mathematical Approach, McGraw Hill, New Delhi.
- 7) D. Salvatore : Micro Economics : Theory and Applications, 4th edition, Oxford.

References :

- 1) Gould and Ferguson - Micro Economic Theory. Cambridge University Press, London.
- 2) G. Stiglor : The Theory of Price, Macmillan, New York.
- 3) K. C. Roy Choudhury : Micro Economics, Tata Mc Graw Hill, New Delhi.
- 4) W. J. Baumol : Economic Theory and Operation Analysis, Prentice Hall of India, New Delhi.
- 5) S. R. Chakravorty : Micro Economics, Allied Publishers.
- 6) Anindya Sen : Micro Economics, Oxford.
- 7) A. C. Chiang : Fundamental Methods of Mathematical Economics, Mcmillan.

B.A./B.SC. (HONOURS) COURSE

Paper – ECOH 102 : MACRO ECONOMICS-I

Full Marks : 50

Pass Marks : 17

Unit-I Introduction

Fundamental concepts : Stock Vs Flow, Static Vs Dynamics, Equation Vs Identity. Nature and Scope of Macro economics. (15 hours)

Unit-II National Income Accounting

Concepts and Measurement, GNP, NNP, NI-GDP, Inter-relationship between three measures of National income in the presence of Government sector and international transactions, Principles of National income accounting, problems of measuring national income. National income and economic welfare. (15 hours)

Unit-III Theories of Income and Employment

Classical and neo-classical approach to the theory of price, output and employment determination – price flexibility and full employment – Say's law of markets. (15 hours)

Unit-IV Money and Prices (A)

Quantity theory of money – critique of the classical approach, demand for money and Friedman's restatements of the Quantity theory of money. The Keynesian theory of income and employment. The Keynesian approach to the determination of prices, output and employment, the determination of the level of income – the interaction between money markets and commodity markets, involuntary unemployment and full employment. (15 hours)

Unit-V Money and Prices (B)

The consumption function – Modern theories of consumption behaviours (Dussenberry, Freeman and Modigliani), the multiplier and the accelerator, Liquidity preference and the rate of interest, the marginal efficiency of capital. (15 hours)

Basic Readings :

1. Text Books :

- 1) Mankiw : Macro Economics.
- 2) S. B. Gupta : Monetary Economics, S. Chand & Co., New Delhi.
- 3) M. K. Lewis and P. D. Mizan : Monetary Economics, Oxford University Press, New Delhi.
- 4) Richard T. Froyen : Macro Economics, Prentice Hall.
- 5) G. M. Meir and R. E. Baldwin : Economic Development : Theory, History and Policy, Wiley and Sons, New York.
- 6) B. Higgins : Economic Development : Principles, Problems and Politics, Central Book Depot, Allahabad.

2. References :

- 1) G. Ackley : Macro Economics; Theory and Policy, Macmillan, New York.
- 2) M. Friedman : Studies in the Quantity Theory of Money, University of Chicago Press, Chicago.
- 3) Edsmon : Macro Economic Theory and Policy, Prentice Hall of India, New Delhi.
- 4) Y. Hayami : Development Economics, Oxford.
- 5) W. H. Branson : Macro Economic Theory and Policy, AITBS Publishers, Delhi.
- 6) R. S. Sayers : Modern Banking, Oxford University Press, New Delhi.
- 7) Dipankar Dasgupta : Growth Theory.

B.A. (HONOURS COURSE) (For Arts)

Paper – ECOH 103 : MATHEMATICS FOR ECONOMICS-I

Full Marks : 50

Pass Marks : 17

Unit-I

Sets and functions – Subset and equality of Set – Set operations : union, intersection, difference – Denumerable sets – Cartesian product – Relations – Function – Domain and Range. (15 hours)

Unit-II

Limits of a function – Continuity – Permutations and Combinations – Logarithm Derivative – Rules of Differentiation – Maxima and Minima – Partial Derivatives (15 hours)

Unit-III

Integration – Rules of Integration – Definite and Indefinite Integral. (15 hours)

Unit-IV

Matrices : Basic rules of Matrix operation – Inversion of Matrix – Rank of a Matrix
Basic rules of operation of a determinant. (15 hours)

Unit-V

Solutions of Equations by Matrix Method and by Cramer's Rule and its application. (15 hours)

Basic Readings :

Text Books

1. A. C. Chiang and Wain Wright : Fundamental Methods of Mathematical Economics, 4th edition, Mcmillan.
2. Sydsactar and Hammond : Mathematics for Economic Analysis, Pearson education, Asia.

References

1. Hall R. Varian : Micro Economic Analysis, Norton publisher.

B.Sc. (HONOURS COURSE) (For Science)

Paper – ECOH 103 : ELEMENTS OF MATHEMATICAL ECONOMICS-I

Full Marks : 50

Pass Marks : 17

Unit-I Basic Concepts and Consumer Behaviour (A) :

Differential and Integral Calculas – Concepts of Matrices and Determinants – Equilibrium of the consumer – Demand and Supply Analysis and its Equilibrium – Elasticities of Demand and Supply. (15 hours)

Unit-II Basic Concepts and Consumer Behaviour (B) :

Engel's Curve and it's derivation – Slutsky's Equation – Cob-web theorem of Demand and Supply. (15 hours)

Unit-III Firm's Behaviour (A)

Concepts of Production function – Interrelationship among Total, Marginal and Average Productivity – Cost Functions and its derivation – Concepts of Total, Marginal, Average Variable Cost and Average Fixed Cost and it's interrelationship. Concepts of Total, Marginal and Average Revenue and it's interrelationship. (15 hours)

Unit-IV Firm's Behaviour (B)

Profit Function and its derivation – Perfectly Competition and Equilibrium in Perfectly Competitive Market – Monopoly Market and Equilibrium in Monopoly Market – Multi-plant Monopolist – Price Discriminating Monopolist. (15 hours)

Unit-V Income Distribution

Nature of Distribution of Income and Wealth – Graduating Income Distribution – Lorenz Curve – Representation of Distribution of Income. Measures of Inequality – Gini Coefficient and Lorenz Curve – Pereto's Law of Income Distribution. (15 hours)

1. A. C. Chiang : Fundamental Methods of Mathematical Economics, Mc graw Hill, New Delhi.
2. Handerson and Quandt : Micro Economic Theory, Mc graw Hill.
3. E Silberberg and W Suen : The Structure of Economics, McGraw Hill.
4. Archibald, G. C. and R. G. Lipsey : An introduction to a Mathematical Treatment of Economics, All India Traveler Book Seller, Delhi.
5. Dorfman, R.P.A., Samuelson and R. Solow : Linear Programming and Economic Analysis, McGraw Hill Book Company, New York.
6. Hadley, G.: Linear Programming, Addison Wesley Publishing Co., Massachusetts.
7. Kothari, C.R. : An Introduction to Operation Research, Bikash Publishing House, New Delhi.
8. Allen, R.G.D.: Mathematical Analysis for Economists, Macmillan Press and ELBS, London.
9. Sydsactar and Hammond : Mathematics for Economic Analysis, Pearson education Asia.
10. S. R. Chakravarty : Micro Economics, Allied publishers.

SECOND SEMESTER

B.A./B.SC. (HONOURS) COURSE

Paper – ECOH 201 : MICRO ECONOMICS-II

Full Marks : 50

Pass Marks : 17

Unit-I Theory of the Firm and Market Organization (A)

- a. Perfectly competitive market-characteristics, Short-run and long run equilibrium of the firm, equilibrium of the industry.
- b. Price and Output Determination under Monopoly, Multiple Plant, Discriminating and Natural monopoly. (15 hours)

Unit-II Theory of the Firm and Market Organization (B)

- a. Theory of Monopolistic Competition : Features – influence of selling cost on the

theory of value-equilibrium of firm and industry, group equilibrium.

b. Oligopoly : Characteristics, oligopoly models – Cournot, Bertrand, Stackellberg and collusive oligopoly. (15 hours)

Unit-III The Theory of Factor Pricing (A)

Demand and supply of factors of production in perfect and imperfect markets, theories of rent-Ricardian and modern theories, determination of wages. (15 hours)

Unit-IV The Theory of Factor Pricing (B)

Interests and profit, the marginal productivity theory of input pricing, adding up problems. (15 hours)

Unit-V Welfare Economics

Conditions of pareto optimality – Efficiency and Equity-Externalities ; negative externalities, pollution taxes, tradable permits, competition and pareto criteria – maximization of social welfare. (15 hours)

Basic Readings :

1. Text Books :

1. A. Koutsoyiannis : Micro Economic Theory, Macmillan Press, London.
2. Gravelle and Rees : Micro Economics, Oxford.
3. G.S. Maddala, and Ellen Miller : Micro Economic Theory, McGraw Hill Company.
4. David M. Krep : A Course in Micro Economic Theory, Princeton University Press.
5. Robert S Pindyck and Daniel L. Rubinfeld : Micro Economics, Prentice Hall, New Delhi.
6. J. M. Henderson and R.E. Quandt : Micro Economic Theory : A Mathematical Approach, McGraw Hill, NewDelhi.
7. D.Salvatore : Micro Economics : Theory and Applications, 4th edition, Oxford.

2. References :

1. Gould and Ferguson – Micro Economic Theory, Cambridge University Press, London.
2. G Stiglor : The Theory of Price, Macmillan, New York.
3. K. C. Roy Choudhary : Micro Economics, Tata Mc Graw Hill, New Delhi.
4. W. J Baumol : Economic Theory and Operation Analysis, Prentice Hall of India, New Delhi.
5. S R Chakravorty : Micro Economics, Allied Publishers.
6. Anindya Sen : Micro Economics, Oxford.
7. A.C. Chiang: Fundamental Methods of Mathematical Economics, Memillan.

B.A./B.SC. (HONOURS) COURSE Paper – ECOH 202 : MACRO ECONOMICS-II

Full Marks : 50

Pass Marks : 17

Unit-I Money and Banking :

Central Banking – changing functions of the central Bank – British and American model structure and features of money market in developed and underdeveloped economics, Commercial Banks and credit creation, monetary policy, regulatory and developmental role of the R.B.I. (15 hours)

Unit-II Inflation and Unemployment

Types of inflation, theories of inflation, the concept of inflationary gap, instruments of inflation control, Philips Curve – trade off between inflation and unemployment, stagflation. (15 hours)

Unit-III Trade Cycles

Nature and Characteristics ; Hawtrey's monetary theory; Hayek's over-investment theory; Keynes' view on trade cycle; The concept of accelerator, Samuelson and Hicks multiplier-accelerator interaction model; Control of trade cycles. (15 hours)

Unit-IV Macro Economic Growth models

Sources of growth; Growth models – Harrod and Domar; Instability of equilibrium; Neo-classical growth models – Solow; Economic growth and technical progress. (15 hours)

Unit-V Evolution of the International Economy

IMF, The World Bank, GATT and the WTO, Developing Countries in the new Global order. (15 hours)

Basic Readings :

I. Text Books :

- 1) Mankiw : Macro Economics.
- 2) S. B. Gupta : Monetary Economics, S. Chand & Co., New Delhi.
- 3) M. K. Lewis and P. D. Mizan : Monetary Economics, Oxford University Press, New Delhi.
- 4) Richard T Froyen: Macro Economics, Prentice Hall.
- 5) G. M. Meir and R. E. Baldwin : Economic Development : Theory, History and Policy, Wiley and Sons, NewYork.
- 6) B. Higgins : Economic Development : Principles, Problems and Policies, Central Book Depot, Allahabad.

2. References :

- 1) G. Ackley - Macroeconomics: Theory and Policy, Macmillan, New York
- 2) M. Friedman : Studies in the Quantity Theory of Money, University of Chicago Press, Chicago.
- 3) Edarson - Macroeconomic Theory and Policy, Prentice Hall of India, New Delhi.
- 4) Y. Hayami - Development Economics, Oxford.
- 5) W. H. Branson : Macro Economic Theory and Policy, AITBS Publishers, Delhi.
- 6) R. S. Sayers : Modern Banking, Oxford University Press, New Delhi.
- 7) Dipankar Dasgupta : Growth Theory.

B.A. (HONOURS COURSE) (For Arts)

Paper – ECOH 203 : MATHEMATICS FOR ECONOMICS-II

Full Marks : 50

Pass Marks : 17

Unit-I

Differential equations; First order linear differential equations – Exact equations, Homogeneous equations; Differential equations of the second order. (15 hours)

Unit-II

Utility Maximization, Cost Minimization and Profit Maximization – Elasticity of Demand and Supply. (15 hours)

Unit-III

Homogeneous function – Homogeneous Production function – Engel curve and its estimation. (15 hours)

Unit-IV

Input-Output analysis – Open input output model – Hawkins-Simons condition. (15 hours)

Unit-V

Closed Input output model. Limitations and applications of Input- output model. (15 hours)

Basic Readings :

Text Books

1. A. C. Chiang and Wain Wright : Fundamental Methods of Mathematical Economics, 4th edition, Mcmillan.
2. Sydsactor and Hammond : Mathematics for Economic Analysis, Pearson education Asia.

References :

1. Hall R. Varian : Micro Economic Analysis, Norton publisher

B.Sc. (HONOURS COURSE) (For Science) Paper – ECOH 203 : ELEMENTS OF MATHEMATICAL ECONOMICS

Full Marks : 50

Pass Marks : 17

Game Theory

Unit-I
Concept of Game – Definition of Various Concepts in Game Theory – Two-Person Zero Sum Game (Constant sum game) – Minimax solution and equilibrium – Uses and Limitation of Game Theory. (15 hours)

Input-Output Analysis (A)

Unit-II
Input-Output analysis - Closed and Open input output model - Hawkins-Simons condition. (15 hours)

Input-Output Analysis (B)

Unit-III
Applications and limitations of Input - output model. Basic concepts of Dynamic Input-Output model. (15 hours)

Linear Programming (A)

Unit-IV
Feasible, Basic and Basic Feasible solution of LPP, Graphical solution of LPP Simplex method. (15 hours)

Linear Programming (B)

Unit-V
Application and limitation of Linear Programming, Primal and Dual problems, economic interpretation of Duality. (15 hours)

References :

1. A. C. Chiang : Fundamental Methods of Mathematical Economics, Mc Graw Hill, New Delhi
2. Handerson and Quandt : Micro Economic Theory, Mc Graw Hill.
3. E. Silberberg and W. Suen - The Structure of Economics, McGraw Hill.
4. Archibald, G. C. and R. G. Lipsey - An introduction to a Mathematical Treatment of Economics, All India Traveler Book Seller, Delhi.
5. Dorfman, R. P. A., Samuelson and R. Solow - Linear Programming and Economic Analysis, McGraw Hill Book Company, New York.
6. Hadley, G. - Linear Programming, Addison Wesley Publishing Co., Massachusetts.
7. Kohari, C. R. - An Introduction to Operation Research, Bikash Publishing House, New Delhi.
8. Allen, R.G.D. - Mathematical Analysis for Economists, Macmillan Press and ELBS, London.
9. Sydsactor and Hammond - Mathematics for Economic Analysis, Pearson education, Asia.
10. S. R. Chakravarty - Micro Economics, Allied publishers.

THIRD SEMESTER
B.A./B.SC. (HONOURS COURSE)

Paper – ECOH 301 : DEVELOPMENT AND ENVIRONMENTAL
ECONOMICS-I

Full Marks : 50
Pass Marks : 17

Unit-I Growth and Development

Meaning of Growth and Development – Distinction between Growth and Development – Meaning of Underdevelopment – Characteristics of Underdeveloped countries – Measuring Development and Development Gap – Per-capita income, Inequality of Income and Wealth. (15 hours)

Unit-II Growth and Human Development

Concept of Human Development Index – Rostow's Stages of Growth – Marxian Stages of Growth. (15 hours)

Unit-III Capital Formation and Approaches to Economic Development (A) :

Capital Accumulation and Technological Progress – Concept of Capital-Output ratio, Concept of ACOR & ICOR – Concept of Human Capital – Vicious Circle of Poverty. (15 hours)

Unit-IV Capital Formation and Approaches to Economic Development (B) :

Concept of Unlimited Supply of Labour – Low Level Equilibrium Trap – Critical Minimum Effort Thesis – Big Push Theorem – Lewis Model for Surplus Labour – Concepts of Disguised Unemployment. (15 hours)

Unit-V Development Strategy and Models

Balanced Growth Vs. Unbalanced Growth – Choice of Techniques – A K Sen's Model – Social Marginal Productivity Criterion – Rural-Urban Migration – Harris-Todaro Model. (15 hours)

Basic Readings :

1. A. P. Thirlwal : Growth and Development, Macmillan, London.
2. H. Myint : Economic Theory and Underdeveloped Countries, Oxford University Press, New York.
3. M. P. Todaro : Economic Development in the Third World, Longman.
4. Y. Hayami : Development Economics, Oxford University Press, New York.
5. Richardson : Elements of Regional Economics, Penguin, Harmondsworth.
6. William J. Baumol and Wallace E. Oates : The Theory of Environmental Policy, Cambridge University Press.
7. Tom Tietenberg : Environmental and Natural Resource Economics, Pearson Education, Delhi.
8. G. M. Meir (Ed) : Leading Issues in Economic Development, Oxford.

B.A. / B.Sc. (HONOURS)
Paper – ECOH 302 : PUBLIC FINANCE

Full Marks : 50
Pass Marks : 17

Unit-I Basic Concepts

Definition, Nature, significance and scope of Public Finance – Role of Public Finance in Developing Economy. Definition of Public goods and Private goods – Distinction between Public goods and Private goods. Efficient allocation for Public goods and Private goods- Externalities. (20 hours)

Unit-II Public Revenue and Expenditure

Different sources of Public Revenue – Direct tax and Indirect tax – Incidence of Taxation – Effects of Taxation on production, consumption and distribution – classification of Public expenditure – significance of public expenditure in a modern state – effects of public expenditure on Production, Distribution and Unemployment. (15 hours)

Unit-III Principle of Taxation, Public Debt

Principle of Taxation – Benefit Principle – Ability to Pay Principle – Classification of Public Debt – Internal Debt and External Debt – Burden of Public Debt, Classification. (15 hours)

Unit-IV Fiscal policy

Fiscal Policy – meaning and objectives; Fiscal policy and Economic development, Deficit Financing. (10 hours)

Unit-V Govt. Budget and Public Finance in India

Revenue Account and capital account of a Budget with an illustration from the last Union Budget – Role of Finance commission in India (study of latest Finance Commission's Recommendations). (15 hours)

Basic Readings :

1. Amaresh Bagchi (ed) : Readings in Public Finance, Oxford.
2. B Mishra : Economics of Public Finance, Macmillan, New Delhi.
3. R. K. Choudhury : Principles of Public Finance and Public Economics, Revised Vol., Arun Prakashan, Guwahati.
4. Musgrave and Musgrave : Public Finance in Theory and Practice, Morgan, Kogakusha Tokyo.
5. Reports of Finance Commissions.

B.A./B.Sc. (Honours Course)

**Paper – ECOH 303 : DEVELOPMENT OF INDIAN ECONOMY
(SINCE INDEPENDENCE)-I**

**Full Marks : 50
Pass Marks : 17**

Unit-I Structure of the Indian Economy

Basic features : Natural resources – land, water and forest resources; Broad demographic features – population size and growth rates, sex composition, rural-urban migration, occupational distribution; Problem of over-population; Population policy; Infrastructure development (with special reference to Economy of Assam). (15 hours)

Unit-II Structural Changes

Structural changes in Indian economy through National Income Statistics – Changes in Occupational Patterns – Sectoral Distribution of Income (with special reference to Economy of Assam). (15 hours)

Unit-III Agriculture

Farm size and Productivity – Marketable surplus and Marketed surplus – Price and Average Elasticity of Marketed surplus – Green Revolution – Productivity, Employment and Distribution aspects – Land Reforms – Problem of credit – Institutionalisation of Rural Credit (with special reference to Economy of Assam). (15 hours)

Unit-IV Industry

Growth and stagnation of the industrial sector in the sixties, Monopoly concentration in Indian industry – Licensing policy – Industrial finance – Public sector : Role, Problems and policies – New Industrial policy – MRTP Act, FERA and FEMA. (15 hours)

Unit-V Labour, Employment and Poverty

Nature of Unemployment in India – Types of unemployment – disguised unemployment in Indian economy – Measurement problems of unemployment – problems of Indian trade union movement – unorganized labour market – women's labour – child labour – different estimates of poverty – eradication of poverty (with special reference to Economy of Assam). (15 hours)

Basic Readings :

1. R. Dutta and K. P. M. Sundaram : Indian economy, Sultan Chand and Company Ltd, New Delhi.
2. S. K. Misra and V. K. Puri : Indian economy – Its Development Experience, Himalaya Publishing house, Mumbai.
3. B. Jalan : The Indian Economy : Problems and Prospects, Viking, New Delhi.
4. B. Jalan : India's Economic Policy – Preparing for the Twenty-First Century, Viking, New Delhi.

5. K. S. Parik : India- Development Report, Oxford University Press, New Delhi.
6. Kaushik Basu (ed) : India's Emerging Economy, Oxford.
7. Ahluwalia : Essays in Honour of Manmohan Singh, Oxford.
8. Dipak Nayyar : On Economic Liberalisation.

FOURTH SEMESTER

B.A./B.SC. (HONOURS COURSE)

**Paper – ECOH 401 : DEVELOPMENT AND ENVIRONMENTAL
ECONOMICS-II**

**Full Marks : 50
Pass Marks : 17**

Unit-I Poverty, inequality and standard of living

Measurement and Issues, Lorenz Curve, Gini Coefficient, Headcount index, Poverty Gap, inequality and development. (10 hours)

Unit-II The environment and development

Sustainable development and environmental accounting, common property resources (tragedy of the commons), Poverty and the environment, globalisation and the environment. (18 hours)

Unit-III Environment and Ecology

Environment-Ecology linkage; Environmental use and Environmental disruption as an allocation problem; market failure for environmental goods; environment as a public good; The Commons problem. (Emphasis should be given on north eastern region). (16 hours)

Unit-IV Pollution Control and Environmental Management

Prevention, control and abatement of pollution; Choice of policy instruments in developing countries; Environmental legislation; Environmental accounting, Rio declaration, Kyoto Protocol; Indian policies on environmental control. (16 hours)

Unit – V Regional Economic Policy

Concept of a region-time and space as variables; formulating interregional objectives, consistency between national and regional objectives, channelisation approach towards backward region – leveling of interregional disparities. (15 hours)

Basic Readings :

1. A. P. Thirlwal : Growth and Development, Macmillan, London.
2. H. Myint : Economic Theory and Underdeveloped Countries, Oxford University Press, New York.
3. M. P. Todaro : Economic Development in the Third World, Longman.

4. Y. Hayami : Development Economics, Oxford University Press, New York.
5. Richardson : Elements of Regional Economics, Penguin, Harmondsworth.
6. William J. Baumol and Wallace E. Oates : The Theory of Environmental Policy, Cambridge University Press.
7. Tom Tietenberg : Environmental and Natural Resource Economics, Pearson Education, Delhi.
8. G. M. Meir (Ed) : Leading Issues in Economic Development, Oxford.

B.A./B.Sc (HONOURS COURSE)

Paper – ECOH 402 : INTERNATIONAL ECONOMICS

Full Marks : 50

Pass Marks : 17

Unit-I Theory of Absolute Advantage and Comparative Advantage

Adam Smith's Theory of Absolute Advantage – Ricardian Theory of Comparative Advantage – Concept of Opportunity Cost – Concept of Production Possibility Curve and Gains from trade – Analysis of Gains from Trade under Constant Cost, Increasing Cost and Under Decreasing Cost – Offer Curve – Elasticity of Offer Curve – International Price Determination – Concept of Community Indifference Curve and Trade Indifference Curve. (15 hours)

Unit-II Modern Theory of International Trade

Price and Physical Definition of Factor Abundance – Heckscher-Ohlin Model – Comparison with Ricardian Model – Factor Price Equalisation Theorem – Complete Specialisation. (15 hours)

Unit-III Tariffs and Quotas

Concept of Tariffs and Quotas – Types of Tariff and Quotas – impact of Tariff and Quota in Partial Equilibrium Analysis – Concept of Optimum Tariff – Partial Aspects of the Theory of Tariff and Income Distribution – Effects of Quotas – Tariff Vs. Quota. (15 hours)

Unit-IV Balance of Trade and Balance of Payment

Concepts and Components of Balance of Trade and Balance of Payment – Equilibrium and Disequilibrium in Balance of Payment – Consequences of Disequilibrium in Balance of Payment – Remedies from Balance of Payment Disequilibrium – Devaluation and its Merits and Demerits – Foreign Trade multiplier. (15 hours)

Unit-V Trade and Development

Trade as an engine of growth – Infant industry argument of protection – Prebisch-Singer thesis and terms of trade debate – import substitution and export promotion in LDCs-

role of FDI in economic development – Multinationals and transfer of technology, role of foreign aid. (15 hours)

Basic Readings :

1. Bo Soderstien and John Reid : International Economics, Macmillian Press Ltd., London.
2. D. L. Salvatore : International Economics, Prentice Hall.
3. H. R. Heller : International Monetary Economics, Prentice Hall, India.

B.A./B.Sc (HONOURS COURSE)

Paper – ECOH 403 : DEVELOPMENT OF INDIAN ECONOMY

(SINCE INDEPENDENCE)-II

Full Marks : 50

Pass Marks : 17

Unit-I External Sector (A)

Role of foreign trade – trends in exports and imports – composition and direction of India's foreign trade – BOP crisis – new economic reforms – export promotion measures – new trade policies. (15 hours)

Unit-II External Sector (B)

Foreign capital – FDI, Aid and multinational corporation (MNCs). Role of foreign capital. IMF and World Bank, Structural Stabilization Programmes, Meaning of Economic Reforms. (15 hours)

Unit-III Planning in India

Objectives, achievements and financing of Indian plans with special emphasis on current plan period. (15 hours)

Unit-IV Government Budget

Last Union Budget- revenue and expenditure, tax structure, trends – Problems – Reforms – Concept of value added tax (VAT) – Centre state financial relations; fiscal reforms. (15 hours)

Unit-V Financial Sector

Objectives of Reserve bank of India – recent problems in nationalized bank – money and capital markets in India and their interaction – reforms in banking and insurance sector. (15 hours)

Basic Readings :

1. R. Dutta and K. P. M. Sundaram : Indian Economy, Sultan Chand and Company Ltd., New Delhi.
2. S. K. Misra and V. K. Puri : Indian Economy – Its Development Experience, Himalaya Publishing house, Mumbai.

3. B. Jalan : The Indian Economy : Problems and Prospects, Viking, New Delhi.
4. B. Jalan : India's Economic Policy- Preparing for the Twenty-First Century, Viking, New Delhi.
5. K. S. Parik : India- Development Report, Oxford University Press, New Delhi.
6. Kaushik Basu (ed) : India's Emerging Economy, Oxford.
7. Ahluwalia : Essays in Honour of Manmohan Singh, Oxford.
8. Dipak Nayyar : On Economic Liberalisation.

FIFTH SEMESTER

B.A./B.SC. (HONOURS)

Paper – ECOH 501 : HISTORY OF ECONOMIC THOUGHT-I

Full Marks : 50

Pass Marks : 17

Unit-I Early Period

Economic thought of Plato and Aristotle – Doctrines of Just cost and Just price
Mercantilism: main characteristics; Thomas Mun – Physiocracy : natural order, primacy of agriculture, social classes, Tableau Economique, taxation, Turgot -Economic ideas of Petty, Locke and Hume. (15 hours)

Unit-II Classical Period

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, Thomas R. Malthus – theory of population, theory of gluts. (15 hours)

Unit-III German romantics and socialists

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. (15 hours)

Unit-IV Marginalists (A) :

The marginalist revolution : Jevons, Welras and Menger - Wickcell and Fisher : the rate of interest – Wicksteed : Distribution. (15 hours)

Unit-V Marginalists (B) :

Marshall as a great synthesizer : 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, organization as a factor of production, nature of profits; Pigou : Welfare economics; Schumpeter : role of entrepreneur and innovations. (15 hours)

Basic Readings :

1. Text Books :

1. R. Blackhouse : A History of Modern Economic Analysis, Basil Blackwell, Oxford.
2. I. B. N Ganguly : Indian Economic Thought : A 19th Century Perspective, Tata McGraw Hill, New Delhi.
3. C. Gide and G. Rist : A History of Economic Doctrines, (2nd Edition), George Harrop & Co., London.
4. A. Grey and A. E. Thomson : The Development of Economic Doctrine, (2nd Edition), Longman Group, London.
5. Kautilya : The Arthashastra, Edited, Rearranged, Translated and Introduced by L. N. Rangaranjan, Penguin Books, New Delhi.
6. E. Roll : A History of Economic Thought, Faber, London.
7. J. A. Schumpeter : History of Economic Analysis, Oxford University Press, New York.
8. G. B. Seshadri : Economic Doctrines, B. R. Publishing Corporation, Delhi.

2. References :

1. M. Blaug : Economic Theory in Retrospect : A History of Economic Thought from Adam Smith to J. M. Keynes, (5th Edition), Cambridge University Press, Cambridge.
2. A. K. Dasgupta : Epochs of Economic Theory, Oxford University Press, New Delhi.
3. J. A. Schumpeter : Ten Great Economists, Oxford University Press, New York.
4. Y. Shionya : Schumpeter and the Idea of Social Science, Cambridge University Press, Cambridge.

B.A. (HONOURS COURSE) (For Arts)

Paper – ECOH 502 : STATISTICS FOR ECONOMICS-I

Full Marks : 50

Pass Marks : 17

Unit-I

Collection and Presentation of data – Methods of data collection – Population and sample – Questionnaire – Tabulation of Data – Diagrammatic representation. (15 hours)

Unit-II

Measures of Central Tendency – Dispersion – Moment and Skewness. (15 hours)

Unit-III

Bivariate frequency distribution – Linear Correlation – Scatter Diagram – Pearson's Coefficient of Correlation – Rank Correlation. (15 hours)

Unit-IV

Concept of Regression Analysis and its properties – Linear Regression between two variables. (15 hours)

Unit-V

Concept of Probability – Addition Theorem and Multiplication Theorem – Mathematical Expectations – theorems – problems. (15 hours)

Basic Readings :

Text Books :

1. Goon, Gupta & Dasgupta : Fundamental of Statistics Vol I & II
2. S. C. Gupta : Fundamentals of Statistics, Himalaya Publishing House, Mumbai.
3. Bowen and Starr : Basic Statistics for Business and Economics.

References :

1. Mathai and Rathi : Probability and Statistics.
2. Nagar and Das : Basic Statistics, 2nd edition.
3. Spiegel : Statistics, Schaum's series, 2nd edition.

B.Sc. (HONOURS COURSE) (For Science)

Paper – ECOH 502 : ELEMENTS OF ECONOMETRICS-I

Full Marks : 50

Pass Marks : 17

Unit-I Concepts of Econometrics

Definition of Econometrics – Scope and Objectives of Econometrics – Methodology of Econometric Study – Comparison between Econometrics and Mathematical Economics – between Econometrics and Statistics – Limitations of Econometrics. (15 hours)

Unit-II Foundations to Econometrics (A) :

Stochastic and non-stochastic relationship, Random variable, Probability discrete and continuous. (15 hours)

Unit-III Foundations to Econometrics (B) :

Sampling distribution, Probability density function and Probability mass function. (12 hours)

Unit-IV Classical Linear Regression Model Analysis (A) :

Two Variable Classical Linear Regression Model – Assumptions and Estimation of the parameters by using Ordinary Least Square (OLS), Maximum Likelihood Estimate – Gauss-Markov Theorem, BLUE. (18 hours)

Unit-V Classical Linear Regression Model Analysis (B) :

Testing of hypothesis – Prediction. Multiple Regression and Estimation of Parameters. (15 hours)

Basic Readings :

1. Kmenta, J. : Elements of Econometrics, Macmillan Publishing Company, New York.

2. G. S. Maddala : An Introduction to Econometrics, Mc Graw Hill, New Delhi.
3. Johnston & Dinardo : Econometric Methods, Prentice Hall.
4. D. N. Gujrati : Basic Econometrics, Mc Graw Hill, New Delhi.
5. A. Koutsoyiannis : An Introduction to Econometrics, Macmillan.
6. Goon, Gupta & Dasgupta : Fundamental of Statistics, Vol-I, World Press, Kolkata.

B.A./B.Sc. (HONOURS)

OPTIONAL PAPER

Paper – ECOH 503 (A) : Demography-I

Full Marks : 50

Pass Marks : 17

Unit-I Introduction :

Definition of Demography – Its nature and scope, Phases of the history of Demography – Demography and other discipline – Some basic concepts. (15 hours)

Unit-II Theories of Population (A) :

Malthusian Theory, Background of Malthusian Theory – Optimum Theory – Is Optimum Point static – Prof. Clark's views about Optimum Population. (15 hours)

Unit-III Theories of Population (B) :

Theory of Demographic Transition – Marx's Theory of Surplus Population – Leibenstein's Population Law – Is there a Law of Population Growth ? (15 hours)

Unit-IV Demographic Data and Methods :

Methods of Data collection – Census Method and Sampling Methods and their relative merits – Registration Method for collection of population Data – Defects of the system – Census Techniques – De facto method and De jure method, their merits and demerits – Stages in collection and compilation of census data. (15 hours)

Unit-V Demographic Data Source :

Sources of Demographic data in India, Civil Registration System and Demographic Surveys ; National Family Health Survey 1 and 2 – Their relative merits and demerits – Importance of population statistics. (15 hours)

READING LIST :

1. Agarwal U. D., Population Projections and their Accuracy, B.R. Publishing Corporation, New Delhi.
2. Agarwal S. N., India's Population Problem, Tata McGraw Hill, Bombay.
3. Bhende, A. A. and T. R. Kanitkar, Principles of Population Studies, Himalaya Publishing House, Bombay.
4. Bogue, D. J., Principles of Demography, John Wiley, New York.

5. Bose A., India's Basic Demographic Statistics, B.R. Publishing Corporation, New Delhi.
6. Choubey, P. K., Population Policy in India, Kanishka Publishing, New Delhi.
7. Gulati, S. C., Fertility in India, an Econometric Analysis of a Metropolis, Sage Publications, New Delhi.

B.A./B.Sc (HONOURS)
OPTIONAL PAPER

Paper – ECOH 503 (B) : AGRICULTURAL ECONOMICS-I

Full Marks : 50
Pass Marks : 17

Unit-I Rural Economy of India (A) :

Structure of the Indian Economy; Place of agriculture in rural economy; Composition of the Indian rural economy; farm sector and non-farm sector; diversification of agriculture. (15 hours)

Unit-II Rural Economy of India (B) :

Agriculture and allied activities – fisheries, horticulture and floriculture; Rural industrialization – food processing industries – agro-based industries; Development of rural infrastructure. (15 hours)

Unit-III Development of Agriculture (A) :

Role and Importance of Agriculture in Economic Development – Linkages between the Agricultural sector and Non-Agricultural sector- Changing nature of linkages – Agricultural Resources in India – Utilization of Resources – Cropping Pattern. (15 hours)

Unit-IV Development of Agriculture (B) :

Irrigation in India-Command Area Development and Flood Control-Pattern of Agricultural Development in India and Comparison with North Eastern Region. (15 hours)

Unit-V Agrarian Relations and Land Reforms in India

Land relations – historical evolution and land reforms programme, its performance; Farm size and Productivity – Marketed surplus and Marketable surplus – Price and average elasticity of marketed surplus. (15 hours)

Basic Readings :

I. Text Books :

1. Bilgrami, S.A.R. : An Introduction to Agricultural Economics (2nd ed.), Himalaya Publishing House, Mumbai.
2. A. N. Sadhu and J. Singh : Agricultural Problems in India (3rd ed.), Himalaya Publishing & Mumbai.

3. I. S. Sundaram : Rural Development (3rd Ed.), Himalaya Publishing House, Mumbai.

References :

1. Government of India, Economic Survey (Annual), New Delhi.
2. Government of India, Plan documents of Planning Commission.
3. Reserve Bank of India, Hand Book of Statistics on Indian Economy (Annual).
4. R. N. Soni : Leading Issues in Agricultural Economics, Arihant Press, Jalandhar.

B.A./B.Sc. (HONOURS)
OPTIONAL PAPER

Paper – ECOH 503 (C) : COMPUTER AND ITS APPLICATIONS

Full Marks : 50
Pass Marks : 17

Unit-I Basics of computers (A) :

Computer fundamentals; organization and components of a computer; computer hardware – CPU; memory; disk drives; input and output devices; keyboard; mouse and VDU. (15 hours)

Unit-II Basics of computers (B) :

Computer peripherals like printer, scanner, digitizer etc; computer software – operating system, application software and packages. (15 hours)

Unit-III MS Word

Text editors and word processor software packages; operative familiarisation with any one package like MS work. (15 hours)

Unit-IV MS Excel

Concept and use of spread shet; operation and use of MS-excel. (15 hours)

Unit-V Data Tabulation

Basics of Database; table; records and fields; data entry and query processing. (15 hours)

Basic Reading list :

1. Text Books :

1. Kerns : Essentials of Microsoft Windows, Word and Excel, Prentice Hall of India, New Delhi.
2. V. Rajaraman : Fundamentals of Computers, Prentice Hall India, New Delhi.
3. F. Schied (1983) : Theory and problems of computers and programming, Schaum's Outline Serie, McGraw Hill, New Delhi.

2. References :

1. M. D. Intrilligator : Econometric Models, Techniques and Applications; Prentice Hall, Englewood cliffs, N. J.

B.A./B.Sc. (HONOURS)
OPTIONAL PAPER

Paper – ECOH 503 (D) : BANKING & FINANCIAL MARKETS-I

Full Marks : 50
Pass Marks : 17

Unit-I Money and Commercial Banking (A)

Meaning – Functions and kinds of Money – Components of Money Supply – Money Market – Regulated and unregulated credit markets – Feature of developed money and capital market. (15 hours)

Unit-II Money and Commercial Banking (B)

Importance of financial system in India – Functions, type and objectives of commercial banks – Role of Commercial banks – Mechanism of credit creation by the Commercial banks – Purpose and limitations. (15 hours)

Unit-III Financial Institutions in India (A)

Functions and growth of Financial Institutions in India – Functions and objectives of Central Bank – Instruments of Credit Control – Qualitative and Quantitative methods – Bank rate policy – Open market operations – Variable Reserve Ratio – Selective methods. (15 hours)

Unit-IV Financial Institutions in India (B)

Role and Functions of the Reserve Bank of India – Development and Regulatory role of RBI – Objectives and limitations of monetary policy. (15 hours)

Unit-V Financial Institutions in India (C)

Recent monetary policy of RBI – Banking and Financial sector reforms and their impact on economic growth in India. (15 hours)

Basic Reading List :

1. Text Books :

1. I. V. Chandler and S. M. Goldfeld : The Economics of Money and banking, Harper and Row, Newyork.
2. S. B. Gupta : Monetary Economics, S. Chand & Co., New-delhi.
3. S. B. Gupta : Monetary Planning for India, Oxford University Press, Delhi.
4. S. Mitra : Money and Banking, Random House, New York.
5. C. Rangarajan : Indian Economics : Essays on Money and Finance, UBS publishers, New Delhi.

6. R. S. Sayers : Modern Banking, Oxford University Press, NewDelhi.
7. P. F. Smith : Economics of Financial Institutions and Markets, Irwin, Homewood.
8. Priya Basu : India's Financial Sector : recent reforms, future challenges, Macmillan.
9. Brealey Myers : Principles of Corporate Finance, Tat McGraw Hill.

2. References :

1. J. O Grabble : International Financial Markets, elsevire, Newyork.
2. RBI : Functions and Working of RBI, Bombay.
3. RBI : Report of the Committee to Review the Working of the Monetary System (chakravarty committee), Bombay.
4. Y. V. Reddy : A Review of Monetary and Financial sector Reforms in India – A central Banker's Perspective, UBSPD, New-Delhi.
5. Stephen Valdez : An Introduction to global Financial Markets, Palgrave Macmillan.

SIXTH SEMESTER

B.A./B.Sc. (HONOURS)

Paper – ECOH 601

HISTORY OF ECONOMIC THOUGHT-II

Full Marks : 50
Pass Marks : 17

Unit-I Keynesian Ideas (A) :

The aggregate economy, Liquidity Preference Theory and Liquidity trap, Marginal Efficiency of Capital and Marginal Efficiency of Investment, wage rigidities, underemployment equilibrium. (15 hours)

Unit-II Keynesian Ideas (B) :

Role of fiscal policy : deficit spending and public works, multiplier principle, cyclical behaviour of the economy, uncertainty and role of expectations, impetus to economic modeling. (15 hours)

Unit-III Indian Economic Thought (A) :

Early economic ideas : Kautilya, Valluvar; Modern Economic ideas : Naoroji, Ranade, R.C. Dutt and M.N. Roy. (15 hours)

Unit-IV Indian Economic Thought (B) :

Economic ideas of Gandhi : Village, Swadeshi, place of machine and labour, cottage industries, trusteeship. (15 hours)

Unit-V Indian Economic Planning :

Early approaches to planning (The national planning committee); Gadgil :

co-operation as a way of life and strategy of development; J. K. Mehta : Wantlessness (15 hours)

Basic Readings :

1. Text Books :

1. R. Blackhouse : A History of Modern Economic Analysis, Basil Blackwell, Oxford.
2. I. B. N Ganguly : Indian Economic Thought: A 19th Century Perspective, Tata McGraw Hill, New Delhi.
3. C. Gide and G. Rist : A History of Economic Doctrines, (2nd Edition), George Harrop & Co., London.
4. A. Grey and A. E. Thomson : The Development of Economic Doctrine, (2nd Edition), Longman Group, London.
5. Kautilya : The Arthashastra, Edited, Rearranged, Translated and Introduced by L. N. Rangaranjan, Penguin Books, New Delhi.
6. E. Roll : A History of Economic Thought, Faber, London.
7. J. A. Schumpeter : History of Economic Analysis, Oxford University Press, New York.
8. G. B. Seshadri : Economic Doctrines, B.R. Publishing Corporation, Delhi.

2. References :

1. M. Blaug : Economic Theory in Retrospect : A History of Economic Thought from Adam Smith to J. M. Keynes, (5th Edition), Cambridge University Press, Cambridge.
2. A. K Dasgupta : Epochs of Economic Theory, Oxford University Press, New Delhi.
3. J. A. Schumpeter : Ten Great Economists, Oxford University Press, New York.
4. Y. Shionya : Schumpeter and the Idea of Social Science, Cambridge University Press, Cambridge.

B.A. (HONOURS COURSE) (For Arts)

Paper – ECOH 602 : STATISTICS FOR ECONOMICS-II

Full Marks : 50

Pass Marks : 17

Unit-I

Index numbers – Concept, problems in the construction of price index numbers – Different Index numbers formulae and their rationale – Cost of Living Index numbers. (15 hours)

Unit-II

Time Series analysis : importance, components, measurement of trend. (15 hours)

Unit-III

Sampling vs Complete enumeration – advantages of sample survey over complete enumeration – Different types of sampling. (15 hours)

Unit-IV

Sampling distribution. Problems of estimation – point estimation, interval estimation – properties. (15 hours)

Unit-V

Testing of Hypothesis – Normal distribution, t-distribution, Chi-square distribution and F-distribution. (15 hours)

Basic Readings :

Text Books :

1. Goon, Gupta & Dasgupta : Fundamental of Statistics Vol I & II
2. S. C. Gupta : Fundamentals of Statistics, Himalaya Publishing House, Mumbai.
3. Bowen and Starr : Basic Statistics for Business and Economics.

References :

1. Mathai and Rathi : Probability and Statistics.
2. Nagar and Das : Basic Statistics, 2nd edition.
3. Spiegel : Statistics, Schaum's series, 2nd edition.

B.Sc. (HONOURS COURSE) (For Science)

Paper – ECOH 602 : ELEMENTS OF ECONOMETRICS-II

Full Marks : 50

Pass Marks : 17

Unit-I

Problems of Regression Analysis (A) :

Multi-collinearity and it's detection – Consequences and Remedial Measures of Multicollinearity. (15 hours)

Unit-II

Problems of Regression Analysis (B) :

Problems of Heteroscedasticity and it's detection – Consequences and Way-out of Heteroscedasticity – Problems of Autocorrelation – Detection, Consequences and Remedial Measures of Autocorrelation. (15 hours)

Unit-III

Qualitative Analysis

Application of Econometrics to analyze qualitative variables, Dummy Variable, Dummy independent variables, Advantages and disadvantages of Dummy variable. (15 hours)

Unit-IV Time Series Analysis (A) :
Definition and components of a time series – Types of Trend – Seasonal Component – Cyclical Component and Random Component. (15 hours)

Unit-V Time Series Analysis (B) :
Measurement of Trend by Least Square and Moving Average Method – Forecasts and Accuracy. (15 hours)

Basic Readings :

1. Kmenta, J. : Elements of Econometrics, Macmillan Publishing Company, New York.
2. G. S. Maddala : An Introduction to Econometrics, Mc Graw Hill, New Delhi.
3. Johnston & Dinardo : Econometric Methods, Prentice Hall.
4. D. N. Gujrati : Basic Econometrics, Mc Graw Hill, New Delhi.
5. A. Koutsoyiannis : An Introduction to Econometrics, Macmillan.
6. Goon, Gupta & Dasgupta : Fundamental of Statistics, Vol-I, World Press, Kolkata.

B.A./B.Sc. (HONOURS)

OPTIONAL PAPER

Paper – ECOH 603 (A) : Demography-II

Full Marks : 50
Pass Marks : 17

Unit-I Technique of Analysis :
Crude Birth Rate and Crude Death Rate, Age Specific Birth and Death Rates - Study of Fertility, Total Fertility Rate – Gross Reproduction Rate – Net Reproduction Rate (15 hours)

Unit-II Marital Status and Migration :
Study of Marital Status Composition – Migration, theories of migration – Causes and Consequences of Migration. (15 hours)

Unit-III Life table :
Life table, Meaning of its columns, Assumptions, descriptions and construction of life table – Mortality Laws – Reproductive and Child Health in India – Temporal and Spatial variations in Sex Ratios. (15 hours)

Unit-IV Techniques of Population Projection :
Concept of Stationary, Stable and quasi-stationary population – Projection and Forecast – Types and Methods of Population Projection – Basic Assumptions in Projections –

Precautions for success in projection – Limitation of Projection Technique. (12 hours)

Unit-V Population Policy :
Salient features of Population Census of 1971, 1981, 1991 and 2001, Evolution of Population Policy in India, Shift in policy focus from population control to family welfare and women empowerment. Demographic status and household behaviour – Education, women's autonomy and fertility – Population, health, poverty and environment linkage in India, New Population Policy – Size and Competition of present population – its implications. (18 hours)

READING LIST :

1. Agarwal U.D., Population Projections and their Accuracy, B. R. Publishing Corporation, New Delhi.
2. Agarwal S. N., India's Population Problem, Tata McGraw Hill, Bombay.
3. Bhende, A. A. and T. R. Kanitkar, Principles of Population Studies, Himalaya Publishing House, Bombay.
4. Bogue, D. J., Principles of Demography, John Wiley, New York.
5. Bose A., India's Basic Demographic Statistics, B. R. Publishing Corporation, New Delhi.
6. Choubey, P. K., Population Policy in India, Kanishka Publishing, New Delhi.
7. Gulati, S. C., Fertility in India, an Econometric Analysis of a Metropolis, Sage Publications, New Delhi.

B.A./B.Sc. (HONOURS)

OPTIONAL PAPER

Paper – ECOH 603 (B) : Agricultural Economics-II

Full Marks : 50
Pass Marks : 17

Unit-I Technological Change in Agriculture
Technology in agriculture : traditional techniques and practices, HYV seeds- fertilizers, water technology (green revolution); Sustainable agriculture; Emerging trends in agricultural technology; Dry land farming, use of bio-technology techniques. (15 hours)

Unit-II Financial Aspect of Agriculture
Agricultural Finance in India – Types of requirement – Non-institutional and Institutional sources – Problem of Rural Credit – Existing Rural Credit Delivery system (Multi-Agency Approach) – Agricultural Marketing in India – Role of co-operatives in Agriculture. (15 hours)

Unit-III Agricultural Planning (A) :
Agricultural Planning in India – Decentralised Planning and Indicative Planning –

Incentives in Agriculture – Price & Non-price incentive – Input subsidies. (15 hours)

Unit-IV Agricultural Planning (B):

Agricultural Price Policy (APP) – Demand and Supply of agricultural Products – Need for State Intervention – Objectives of APP – Instruments and Evaluation of APP – Food security in India and Public Distribution system. (15 hours)

Unit-V 50 Years of Indian Agriculture

An overview of agricultural development; Under-employment and unemployment in the rural economy; Globalisation of Indian Economy and its effects on Indian agriculture, WTO and Indian agriculture. (15 hours)

Basic Readings:

1. Text Books:

1. Bilgrami, S. A. R : An Introduction to Agricultural Economics (2nd ed.), Himalaya Publishing House, Mumbai.
2. A. N. Sadhu and J. Singh : Agricultural Problems in India (3rd ed.), Himalaya Publishing, Mumbai.
3. I. S. Sundaram : Rural Development (3rd Ed.), Himalaya Publishing House, Mumbai.

2. References:

1. Government of India, Economic Survey (Annual), New Delhi
2. Government of India, Plan documents of Planning Commission.
3. Reserve Bank of India, Hand Book of Statistics on Indian Economy (Annual)
4. R. N. Soni. : Leading Issues in Agricultural Economics, Arihant Press, Jalandhar.

B.A./B.Sc. (HONOURS)

OPTIONAL PAPER

Paper – ECOH 603 (C) : COMPUTER AND ITS APPLICATIONS

Full Marks : 50

Pass Marks : 17

Unit-I MS-access and Power point

Operative principles of MS-access; Document formation and presentation through MS-power point. (15 hours)

Unit-II Data analysis and trend forecasting (A)

Basics of statistical functions and analysis – mean, median, mode, standard deviation, distribution function and density function. (15 hours)

Unit-III Data analysis and trend forecasting (B)

Statistical package handling and command description for SPSS; regression and auto-regression; correlation and auto-correlation; covariance and auto covariance (empirical estimation of economic data). (15 hours)

Unit-IV Internet Applications (A)

Text and mail communication using computer; e-mail; chat : choice mail; document transfer and delivery. (15 hours)

Unit-V Internet Applications (B)

Internet world wide web (WWW) and use for business and commercial activities like e-business and e-commerce; electronic stock market and exchanges; B2B and B2C concepts. (15 hours)

Basic Reading list :

1. Text Books :

1. Kerns : Essentials of Microsoft Windows, Word and Excel, Prentice Hall of India, New Delhi.
2. V. Rajaraman : Fundamentals of Computers, Prentice Hall India, New Delhi.
3. F. Schied (1983) : Theory and problems of computers and programming, Schaum's Outline Serie, McGraw Hill, New Delhi.

2. References :

1. M. D. Intrilligator : Econometric Models, Techniques and Applications, Prentice Hall, Englewood cliffs, N. J.

B.A./B.Sc. (HONOURS)

OPTIONAL PAPER

Paper – ECOH 603 (D) : BANKING & FINANCIAL MARKETS-II

Full Marks : 50

Pass Marks : 17

Unit-I Cooperative and Development Banks in India

Structure of cooperative institutions and development bank in India – Objective and role of the development banks – Mutual funds, LIC, Investment companies, Venture capital. (15 hours)

Unit-II Financial Markets (A)

The structure of Financial markets – call money, treasury bills and Commercial bills; The Stock market and market for gilt edged securities. (15 hours)

Unit-III Financial Markets (B)

Unregulated credit markets; financial sector Reforms in India ; SEBI and Working of capital markets in India. (15 hours)

Unit-IV Foreign exchange Markets (A)

Foreign exchange; foreign exchange rate, foreign exchange market – concepts of spot exchange rates and forward exchange rates. (15 hours)

Unit-V Foreign exchange Markets (B)

Determination of exchange rates under fixed and flexible exchange rate regime and role of hedging in the determination of exchange rates; euro-dollar market – its role and significance. (15 hours)

Basic Reading List :

1. Text Books :

1. I. V. Chandler and S. M. Goldfeld : The Economics of Money and banking, Harper and Row, Newyork.
2. S. B. Gupta : Monetary Economics, S. Chand & Co., New Delhi.
3. S. B. Gupta : Monetary Planning for India, Oxford University Press, Delhi.
4. S. Mitra : Money and Banking, Random House, New York
5. C. Rangarajan : Indian Economics : Essays on Money and Finance, UBS Publishers, New Delhi.
6. R. S. Sayers : Modern Banking, Oxford University Press, New Delhi.
7. P. F. Smith : Economics of Financial Institutions and Markets, Irwin, Homewood.
8. Priya Basu : India's Financial Sector : recent reforms, future challenges, Macmillan.
9. Brealey Myers : Principles of Corporate Finance, Tat McGraw Hill.

2. References :

1. J. O. Grabble : International Financial Markets, elsevire, Newyork.
2. RBI : Functions and Working of RBI, Bombay.
3. RBI : Report of the Committee to Review the Working of the Monetary System (chakravarty committee), Bombay.
4. Y. V. Reddy : A Review of Monetary and Financial sector Reforms in India – A central Banker's Perspective, UBSPD, New Delhi.
5. Stephen Valdez : An Introduction to global Financial Markets, Palgrave Macmillan.