

ಮಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾನಿಲಯ
MANGALORE UNIVERSITY



(Accredited by NAAC with 'A' Grade)

ಕ್ರಮಾಂಕ/ No. : MU/ACC/CR.14/CBCS-PG(SLB)/2016-17/A2

ಕುಲಸಚಿವರ ಕಛೇರಿ
ಮಂಗಳಗಂಗೋತ್ರಿ - 574 199
Office of the Registrar
Mangalagangothri - 574 199
ದಿನಾಂಕ/Date: 30.03.2017

NOTIFICATION

Sub: CBCS Syllabus of M.A. in Economics degree programme.

Ref: 1) This Office Notification No.: MU/ACC/CR.7/CBCS-PG(SLB)/2016-17/A2,
dated 17.08.2016

2) Decision of the Academic Council meeting held on 3.02.2017 vide Agenda No.
3:1 (2016-17).

In continuation to this office Notification cited under reference (1) above, II, III and IV semesters syllabus of M.A. in Economics degree programme revised as per CBCS – PG Regulations, 2016 and approved by the Academic Council as referred under reference (2) above is hereby notified for implementation with effect from the academic year 2016-17. (2016-17 for II semester and 2017-18 for III and IV semesters)


REGISTRAR.

To:

- 1) The Chairman, Dept. of Economics, Mangalore University, Mangalagangothri/ University College, Mangalore/ Field Marshal K.M. Cariappa College, Madikeri.
- 2) The Principals of the affiliated Colleges concerned.
- 3) The Registrar (Evaluation), Mangalore University.
- 4) The Chairman, P.G. BOS in Economics, Mangalore University.
- 5) The Director, Web portal, Mangalore University – along with Soft copy of Syllabus with a request to publish in the University Website.
- 6) The Superintendent (ACC), O/o the Registrar, Mangalore University.
- 7) Guard File.

PG B.O.S. approved M.A. Economics Course (CBCS) Pattern

Sem	Hard Core			Soft Core			Open Elective			Projects	Total
	No.of Papers	Credits	Total Credits	No.of Papers	Credits	Total Credits	No.of Papers	Credits	Total Credits		
I	4	5	20	1	4	4	0	0	0		24
II	3	5	15	1	4	4	1	3	3		22
III	2	4	08	2	4	8	1	3	3		19
IV	2	4	08	2	4	8	0	0	0	5	21
Total			51			24			6	5	86

M.A. ECONOMICS CBCS SEMESTER SYSTEM

Paper	I Semester	Paper	II Semester
	Hard Core		Hard Core
	EC401 Micro Economic Analysis I EC402 Macro Economic Analysis I EC403 Economics of Growth and Development I Development II EC404 Quantitative Methods in Economic Analysis		EC451 Micro Economic Analysis II EC452 Macro Economic Analysis II EC453 Economics of Growth and
	Soft Core (Electives)		Soft Core (Electives)
	EC405 A) Agricultural Economics B) Industrial Economics C) Population Studies Economics		EC454 A) Rural Development B) Urban Economics C) Statistical Techniques for Analysis
			Open Elective
			EC455 Indian Economy: Policies and Programmes
Paper	III Semester	Paper	IV Semester
	Hard Core		Hard Core
	EC501 Public Economics EC502 Econometrics I		EC551 International Economics EC552 Econometrics II EC553 Project
	Soft Core (Electives)		Soft Core (Electives)
	EC503 A) Development Issues of Indian Economy B) Environmental Economics C) Health Economics D) Research Methodology		EC554 A) Economics of Insurance B) Financial Economics C) Managerial Economics D) Economics of Infrastructure
	Open Elective		
	EC504 India in Global Economy		

SYLLABUS

II SEMESTER

Hard Core

EC451 MICRO ECONOMIC ANALYSIS II

Module I :Price leadership models:

Models of the low cost and dominate firm price leadership - Barometric price leadership - concept of joint profit maximization and market sharing cartels; Baumol's sales revenue maximization - Marris' model of managerial enterprise - Williamson's model – Bain's limit pricing theory - Recent developments in theory of limit pricing -Game theory – Nash equilibrium- Nash equilibrium-decision theory; subject matter and decision rules - Micro economic policy.

Module II: Theory of distribution:

Marginal productivity theory -product exhaustion theorem-Euler's theorem and 'adding up controversy Clark, Wickstead -Walras product exhaustion theorem- Law of constancy of shares --Ricardian and modern theories of rent-wages- Hicks Hansen synthesis of classical and Keynesian theories of interest-profit - Shackle's approach to the theory of profits.

Module III: Markets with asymmetric information:

Markets with asymmetric information: Quality uncertainty and the market for 'lemons' – market signalling to convey private information – screening to induce information revelation – hidden actions: principals and agents – incentives – asymmetric information in labour markets:efficiency wage theory – moral hazard – hidden characteristics: the problem of adverse selection – the winner's curse.

Module IV: General equilibrium analysis:

General equilibrium – Walrasian general equilibrium – two-factor, two-commodity, twoconsumer general equilibrium model. Walras, Arrow, Debreu - General equilibrium and efficiency.

Welfare economics: Criteria of social welfare – Pareto optimality criterion – perfect competition and Pareto optimality – Kaldor-Hicks compensation criterion – Scitovsky criterion – Bergson criterion – social welfare functions – maximization of social welfare and the point of bliss – determination of the welfare-maximizing output-mix, commodity distribution and resource allocation

References:

Baumol, W.J. (1982), Economic Theory and Operational Analysis 4th ed., Prentice Hall of India, New Delhi.

Da Costa, G.C. (1980), Production Prices and Distribution, Tata Mc Graw-Hill New Delhi.

Gravelle, H. and Rees, R. (1981), Micro Economics, Longman, London 2nd ed.

Henderson J.M. and Richard E. Quandt, Microeconomic Theory A Mathematical Approach, latest edition.

Hicks, J.R.(1956), A Revision of Demand Theory, Oxford Clarendon Press

Kamerschen David R. (1969), Readings in Micro-Economics, John Wiley and Sons, London.

Koutsoyiannis A. (1982), Modern Micro Economics, Mac Millan

Lancaster K. (1969), Consumer Demand- A New Approach, Rand Mc Nally London.

Maddala and Miller Ellen (1989), Micro Economic Theory and Applications, Mc Graw Hill, New Delhi.

Manmohan Singh (1963), Demand Theory and Economic Calculation in a Mixed Economy, Allen and Unwin, London.

Mark Blaug (1990), History of Economic Thought.

Mas-Colell, A, et al. (1995), Microeconomic Theory, Oxford University Press, New Delhi.

Nath S.K. (1969), A Reappraisal of Welfare Economics, R and K. Paul, London.

Sen, Anindya (1999), Microeconomic Theory and Applications, Oxford University, Press, New Delhi.

Varian, H. (1972), Micro Economics Analysis, W.W.Norton, New York, 3rd ed.

Varian H.R. (1990), Intermediate Micro Economics, W.W.Norton and Co., NewYork.

Winch D.M (1971), Analytical Welfare Economics, Penguin London.

Watson, Price Theory and its uses, latest edition

EC452 MACRO ECONOMIC ANALYSIS II

Module I: Consumption and Investment Function:

Keynesian psychological law of consumption-implication of the law-short run and long run consumption function-income consumption relationship-absolute income, relative income, permanent income hypothesis- Past-Peak income hypothesis- Dual Decision- life cycle and permanent income hypothesis.

Marginal efficiency of capital and investment- Keynesian concepts of MEC and MEI-Tobin's Q Theory- Metzler's investment inventories analysis- investment-multiplier-accelerator interaction.

Module II: Inflation and Unemployment:

Classical, Keynesian and monetarist approaches to inflation and unemployment-structural theories-Philips curve analysis-short run and long run Philips curve-Tobin's and Friedman's modified Philips curve-augmented Philips curve and expectations-natural rate of unemployment and NAIRU-policies to control inflation and unemployment.

Module III: Business Cycles:

Theories of business cycles-Schumpeter's theory-Kaldor's theory- Samuelson and Hicks' Theories-Good Win's model- -Lucas Model- control of business cycles efficiency of policies.

Module IV: Current Controversies in Macroeconomics:

Keynesian Counter revolution – R. W. Clower, and Leifohnufund – Walrasian General Equilibrium – Neo-Keynesian Quantity Constrained Model – Rational Expectations – New Classical Macro Economics – Supply side Economics – Laffer Curve – Wedge Model – Real Business Cycle Approach – New Keynesian Economics – Stanley Fischer, Edmund Phelps and John Taylor.---Rational expectations theory-empirical evidences.

References:

- Ackley.G. (1978), Macroeconomics: Theory and Policy, Macmillan, New York.
- Blackhouse, R. and A. Salansi (eds) (2000), Macroeconomics and the Real World (2 vols) Oxford University Press, London.
- Branson, W.A. (1989), Macroeconomic Theory and Policy, (3rd edition) Harper and Row, New York.
- Dornbusch, R. and F. Stanley (1997), Macroeconomics, McGraw Hill, Inc, New York.
- Hall, R.E. and J.B. Taylor (1986), Macroeconomics, W.W.Norton, New York.
- Heijdra, B. and V.P. Fredericck (2001), Foundations of Modern Macroeconomics, Oxford University Press, New Delhi.
- Jha, R. (1991), Contemporary Macroeconomic Theory and Policy, Wiley Eastern Ltd, New Delhi.
- Romer, D.L. (1996), Advanced Macroeconomics, McGraw Hill Complany Ltd., New York
- Scarfe, B.L. (1977), Cycles, Growth and Inflation, McGraw Hill, New York.
- Shapiro, E. (1996), Macroeconomic Analysis, Galgotia Publications, New Delhi.
- Surrey, M.J.C .(ed) (1976), Macroeconomic Themes, Oxford University Press, Oxford.

EC453 ECONOMICS OF GROWTH AND DEVELOPMENT II

Module I: Social and Institutional Aspects of Development:

Food security, education, health and nutrition - factors affecting economic growth: capital, labour and technology - human resource development - contribution of education: Schultz, Becker, Arrow, Dennison - population problem and growth pattern of population – theory of demographic transition - population as limits to growth and as ultimate source – population, poverty and environment - economic development and institutions – markets and market failure, state and state failure - issues of good governance.

Module II: Sectoral Aspects of Development:

Role of agriculture in economic development; Efficiency and productivity in agriculture, New technology and sustainable agriculture; Globalization and agricultural growth; Rationale and pattern of industrialization in developing countries; The choice of techniques and appropriate technology and employment; Efficiency of small –scale va. Large-scale production; Terms of trade between agriculture and industry; Infrastructure and its importance; Labour markets and their functioning in developing countries.

Module III: Macroeconomic Policies and Development:

Role of monetary and fiscal policies in developing countries – Prior savings, inflation and growth – Empirical evidence; External resources - FDI, aid vs. trade, technology inflow; MNC activity in developing countries; Borrowings – domestic and external; Burden of borrowing – IMF and World Bank policies in developing countries.

Module IV: Allocation of Resources

Need for investment criteria in developing countries – present vs., future, Alternative investment criteria; Cost benefit analysis, Shadow prices, Project evaluation and UNIDO guidelines.

Module V: New Development Paradigm

New Economic Reforms - Impact - cross countries experiences – BRICS and changing economic policy perspectives on growth strategies.

References

Adelman, I.(1961), Theories of Economic Growth and Development, Stanford University Press, Stanford.

Behrman, S. and T.N. Srinivasan (1985), Handbook of Development Economics, Vol.3, Elsevier, Amsterdam.

Brown, M. (1966), On the Theory and Measurement of Technical Change, Cambridge University Press, Cambridge Mass.

Chenery, H.B.et.al. (Eds) (1974), Redistribution with Growth, Oxford University Press, Oxford.

Chenery, H. and T.N.Srinivasan (Eds), (1989), Handbook of Development Economics, Vols. 1 & 2, Elsevier, Amsterdam.

Dasgupta, P. (1993), An Enquiry into Well-being and Destitution, Clarendon Press Oxford.

Ghatak, S. (1986), An Introduction to Development Economics, Allen and Unwin, London.

Gillis, M.D.H, Perkins, M.Romer and D.R. Snodgrass (1992), Economics of Development, (3rd Edition), W.W.Norton, New York.

Gimmell, N (1987), Surveys in Development Economics, Blackwell, Oxford

Higgins, B. (1959), Economic Development, W.W.Norton, New York

Hogendorn, J. (1996), Economic Development, Addison, Wesley, New York

Kahkonon, S and M. Olson, (2000), A New Institutional Approach to Economic Development Vistaar.

Kindleberger, C.P (1977), Economic Development, (3rd Edition), McGraw Hill, New York.

Soft Core (Electives)

EC454 (A) RURAL DEVELOPMENT

Module I: Nature and scope:

Rural Development; Objectives of Rural Development Philosophy; Rural Problems, Poverty, Unemployment, Inequality.

Rural Development models; Contribution of Lipton, Gandhi, VKRV Rao, Lalith Sen and Gadgil- Policy implications of these models on growth strategies

Module II : Rural Development Strategies:

Sectoral terms of trade-controversy in India –Rural Development Programmes.

Micro Level Planning-Design and Evaluation of Rural Development Projects-Block Plans.

Rural Infrastructure and Services- Rural Market Networks, Rural Transport, Education, Health, Nutrition and Sanitation Rural Energy.

Location theory of rural services Losch, Christaller, Webber and Isard Models.

Module III: Rural Demography:

Features of rural population growth trends- Causes and consequences- migration nature, types and trends, measures to check rural-urban migration-Todaro model implications- Rural Urban Relations- Rural- Urban Relation Committee report- Positive and Negative effects on rural social and economic life.

Module IV: Rural Development Administration Structure and Organisation in India:

Panchayat Raj Institutions, People's Participation. 'Role of NGO's and voluntary agencies in Rural Development - Recent changes.

Rural Credit System; Institutional and Non-Institutional Sources Co-operation Banks Commercial Banks, Regional Rural Banks- NABARD and its policy impact on rural credit promotion in India.

Module V: Rural Industrialization:

Strategies for developing rural industries, financing of rural industries, rural industrial entrepreneurship-DIC-. Rural Labour Market- Types, Problems and Policy measures for rural unemployment in India

References:

- Abdul Aziz (1984), Organising Agricultural Labourers, Ashish, New Delhi.
- Brennar, J. and S. Mundle eds. (1998), Rural Transformation in Asia.
- Chattarjee, S.K. (1981), Development Administration in India, Surjeet, Delhi.
- Desai, A.K. (1978), Rural Sociology in India, Popular Prakashan, Bombay.
- Dubashi, P.R. (1985), Rural Development in India, New Delhi.
- Kurien, C.T. (1989), Dynamics of Rural Transformation, Orient Longman, Hyderabad.
- Lalit, K. Sen (ed) (1990), Microlevel Planning in India.
- Lipton Michael (1982), Why Poor People Stay Poor, A Study of urban Bias in World Development, Heritage Publishers, New Delhi.
- Mishra, R.P., Rural Development, 4 vols.
- Mishra, R.P. & K.V.Sundaram (1979), Multi level Planning for Integrated Rural Development in India, Sterling, Bangalore.
- NIRD (1985), Rural Development in India: Some Facets.
- Pai Panandikar (1996), Development Administration in India, Konark, Delhi.
- Rao, V.M. (1979), Rural Development and the Village.
- Satya Sundaram (1996), Rural Development in India.
- Vasanth Desai (1988), Rural Development, 6 vols, Himalaya, Bombay.

EC454 (B) URBAN ECONOMICS

Module I: Process of Urbanization: Migration and Urbanization:

Factors influencing urbanization-Different stages of urbanization-Features of Urbanization trends in India and other countries. Issues in Urbanization policies. Migration-Urbanization Cause-Effect-Relationships-Pollution-Controlling measures with reference to India.

Module II : Theory of Urban Spatial Structure and Growth:

Contribution to the theory of the development of Urban Spatial Structure-R.M.Haig, Gutunburg, Lowdown Wingo Jr.Richard Muth, Burgess Theories of Urban Growth Analysis-Central Place Theory of Christall, Losch and Isard – Human ecological growth model, Economic Base Theory.

Module III: Urban Labour Market;

Characteristics of the Urban Labour Market- Factors determine demand and supply of labour-Problems of Urban Unemployment in India- trends in urban employment policies in India-PURA

Module IV: Urban Transport Sector:

Development of a good transport network in Urban area-Problems of transport Congestion-Negative impacts on Urban Environment-Problems of Financing Urban Transport Sector in India-Urban Transport Policies-NHDP and urban road extensions schemes.

Module V: Urban Housing and Land Use Planning

Problems of Urban Housing-Nature and Magnitude, Housing Finance Markets in India-Different Institutions in Housing Finances-Limitations-Urban Property Taxes-Recent Measures of valuation of urban property and determine property taxes in India.

Economics of Urban Land Development and Distribution-Role of Urban Development Organizations (UDO)-Their problems with reference to India-Urban Planning and Urban Land use planning-Different Techniques-Control of Urban Land Use Pattern in India.

References:

- Breese, Gerald, Urbanisation in Newly Developing Countries.
- Button, K.J. (1981), Urban Economics-Theory and Policy, OUP.
- Chattopadhyaya Haraprasad (1987), Internal Migration in India, Culcutta.
- Clains, W.H. (1980), A.Hand Book of Urban Planning, Oxford university Press.
- David, Segal, Urban Economics, Richard D Irwin, Illinois.
- Davis, Kinsley (1981), Cities: Their origin, Growth and Human Impact, Surjeet, Delhi,.
- Dwyer D.J, People & Housisng in the Third World Cities.
- General Breeze & et al (1990), An Approach to Urban Planning, Mcmillan.
- Henderson James, V. (1980), Economic theory and Cities, McGraw-Hill, Tokyo.
- Hirsch, Werner (1973), Urban Economy Analysis, Tata McGraw Hill, New Delhi.
- Mills, Edwin S. (1980), Urban Economics, Scot Foresman, Illinois.
- Muth, Richard, Urban Economics, Harper & Raw, New York.
- Nobel & Dutt (1977), Indian Urbanisation and Planning, Tata Mcgraw-Hill, New Delhi.
- Quinn, James (1955), Urban Sociology, Eurasia, New Delhi.
- Ramussen, David, Urban Economics, Richard D Irwin, Illinois.
- Richardson Harry, W. (1979), The New urban Economics, Pitman publications, Ltd, London.
- Singh K.N. (1992), Urban Development in India.

EC454 (C) STATISTICAL TECHNIQUES FOR ECONOMICS ANALYSIS

Module I: Statistical Methods - 1:

Introduction-Nature and Scope of Statistics-Uses and Limitations in Economic Analysis- Collection of data- Presentation-Tabulation-Frequencies Distribution-Visual Aids-Diagrammatic and Graphic Representation.

Analysis of data - Measures of central tendency – Mean, Median, Mode, Geometric Mean and Harmonic Mean. Measures of Dispersion – Range, Quartile Deviation, Mean Deviation, Standard Deviation and Co-efficient of Variation.

Module II: Statistical Methods - 2:

Simple Correlation – Simple – Co-efficient of Correlation – Karl Pearson and Rank Correlation – Partial and Multiple Correlation Analysis - Regression Analysis – Estimation of Regression line in a bivariate distribution - Multivariate analysis – least squares method, interpretation of regression of coefficients.

Module III: Statistical Methods - 3:

Elements of probability theory-Total Probability and Conditional Probability-Mathematical Expectation-Simple Models of Frequency Distribution-Normal Binomial and Poisson Distributions and their Applications.

Module IV: Statistical Methods - 4:

Time series analysis - Components of time series - Trend analysis-curve fitting - Index Numbers - Simple and weighted index numbers - Fisher's Index Numbers - Cost of living Index Numbers.

Concepts and methods of Estimation - Concept of Sampling-Random and Non Random sampling - Stratified and cluster sampling - probability proportional to size - Multi stage random sampling and their applications - Sampling from normal distribution - Desirable

properties of an estimator - Point and Interval Estimation - Confidence limits - Hypothesis testing - Type I and Type II errors.

Module V: Statistical Software:

Introduction to statistical software.

References:

Chou.Y. (1975), Statistical Analysis, Holt, Reinhart and Winston, New York.

Elhance, D.N. (1987), Fundamental methods of Statistics, Kitab Mahal, Allahabad.

Gupta, S.C. (1993), Fundamentals of Applied Statistics, S. Chand & Sons, New Delhi.

Speigal, M.R. (1992), Theory and Problems of Statistics, McGraw Hill Book Co, London.

Donne D.P. and L.E. Seward (2012), Applied Statistic in Business and Statistics.

Open Elective

EC455 INDIAN ECONOMY: POLICIES AND PROGRAMMES

Module I: Introduction to Indian Economy:

Changing structural characteristics of Indian economy – sustainable development- role of state, market and other institutions- indicators of development: PQLI, human development Index C(HDI), gender development and empowerment indices, human poverty index.

Broad demographic features of Indian economy - rural –urban migration- urbanization and civic amenities- poverty and inequality – measurement –population policy.

Module II: Planning in India:

Objectives and strategy of planning - failures and achievements of plans - developing grassroots organizations - Panchayats, NGOs and pressure groups.

Module III: Agricultural Sector:

Institutional structure – land reforms in India- technological change in agriculture- pricing of agricultural inputs and output - terms of trade between agriculture and industry- agricultural finance policy - food and agricultural subsidization policies - issues in food security – policies for sustainable agriculture - globalization and Indian agricultural sector.

Module IV: The Industrial Sector:

Industrial policy - privatisation and disinvestment debate - pricing reforms in PSUs- Problem of industrialisation- productivity in industrial sector - exit policy- issues in labour market – reforms - approaches for employment generation- analysis of price behaviour in India

Module V: Money, Banking and Budgets:

Financial sector reforms- interest rate policy – review of monetary policy - money and capital markets- working of SEBI. Indian fiscal policy – annual budgets – components of budgets – importance and impact of budgets.

Module VI: Economic Reforms:

Rationale of internal and external reforms - globalisation of Indian economy- W.T.O and its impact on different sectors of the economy - need for and issues in good governance - issues in competition and safety nets.

References:

Ahluwalia, I.J and I.M.D. Little (eds.) (1999), India's Economic Reforms and Development (Essays in honour of Manmohan Singh), Oxford University Press, New Delhi.

Bardhan, P.K. (9th Edition) (1999), The Political Economy of Development in India, Oxford University Press, New Delhi.

Bawa, R.S and P.S.Raikhy (ed) (1997), Structural Changes in Indian Economy, Guru Nanak Dev University Press, Amritsar.

Brahmananda, P.R. and V.R.Panchamukhi (eds) (2001), Development Experience in the Indian Economy: Inter-State Perspectives, Bookwell, Delhi.

Chakravarty, S. (1987), Development Planning : The Indian Experience, Oxford University Press, New Delhi.

Dantwala, M.L. (1996), Dilemmas of Growth: The Indian Experience, Sage Publications, New Delhi.

Datt. R (ed) (2001) Second Generation Economic Reforms in India, Deep and Deep Publications, New Delhi.

Government of India, Economic Survey, (Annual), Ministry of Finance, New Delhi.

Jain A.K (1986), Economic Planning in India, Ashish Publishing House, New Delhi.

Jalan, B. (1992), The Indian Economy-Problems and Prospects, Viking, New Delhi.

Jalan B. (1996), India's Economic Policy-Preparing for the Twenty First Century, Viking, New Delhi.

Joshi.V. and I.M.D. Little (1999), India: Macro Economics and Political Economy, 1964-1991, Oxford university Press, New Delhi.

Parikh. K.S. (1999), India Development Report-1999-2000, Oxford University Press, New Delhi.

Reserve Bank of India, Report on Currency and Finance, (Annual)

Sandesara, J.C. (1992), Industrial Policy and Planning, 1947-1991: Tendencies, Interpretations and Issues, Sage Publications, New Delhi.

Sn, R.K. and B.Catterjee (2001), Indian Economy; Agenda for 21st Century (Essays in honour of Prof P.R.Brahmananda), Deep & Deep Publications, New Delhi.

III SEMESTER

Hard Core

EC 501 PUBLIC ECONOMICS

Module I: Introduction to Public Economics:

Public Finance and Public Economics- Subject matter of Public Economics and Role of Government in the development context; Changing Development Perspective-Special Role of Government in developing economics- Market Failure- causes and measures-missing markets - Pareto criteria and optimality conditions - Fundamental Theorem of Welfare Economics - Theory of second best.

Module II: Public Choice and Rationale for Public Policy:

Private and public mechanism for allocating resources in democratic countries; Problems of efficient allocation of resources; Problems of preference revelation and aggregation of preferences; Arrow impossibility theorem; Rent seeking and directly unproductive profit seeking (DUP) activities.

Public Goods and its provisions-problems and emerging issues in financing the public Goods-Voluntary exchange models; Impossibility of decentralized provision of public goods-contributions of Samuelson, Clarks, Groves and Ledyard, classical theory of club goods-Tiebout model.

Module III: Fiscal Policy and Taxation:

Objectives of fiscal policy- Interdependence of fiscal and monetary policies; Budgetary deficits and its implications - FRBM Act and its impact.

Tax incidence-economic and statutory tax incidences-rules for tax incidences; Allocative and equity aspects of individual taxes; Benefit and ability to pay approaches; Theory of optimal taxation; Ramsey Rule on Commodity Taxation-Benefits and tax savings -Trade-off between tax equity and efficiency; Theory of measurement of dead weight losses.

Indian tax system; Major taxes in India; taxation of agriculture, expenditure tax, reforms in direct and indirect taxes, taxes on services; GST in India- Non-tax revenue of Centre, State and local bodies; problem of tax autonomy and decentralization- Lack of flexibility in Central and State budgets- Need for budgetary reforms at the state level.

Module IV : Public Expenditure and Public Debt:

Wagner's law of increasing state activities; Wiseman-Peacock hypothesis; Samuelson's Pure theory of public expenditure; Structure and growth of public expenditure in India; Criteria for public investment; Social cost-benefit analysis-Project evaluation, Estimation of costs, discount rate; Reforms in expenditure budgeting; Fiscal crisis and fiscal sector reforms in India

Public debt Theories-Trends in growth public debt in India- Impact of public debt on India's growth; Management of Public debt management policies, recent emerging issues in generating revenue to control rising public debt burden in India.

Module V : Fiscal Federalism:

Fiscal federalism in India; Vertical and horizontal imbalance; Assignment of function and sources of revenue; Constitutional provisions; Finance Commission, Reports of Finance Commissions in India.

NITI Commission - Changing Perspectives on executing planned programme and Make in India Strategy; Devolution of resources and grants; Theory of grants; Resource transfer from Union to States-Criteria for transfer of resources-Centre-State financial relations in India-Problems of states' resources and indebtedness; Transfer of resources from Union and States to local bodies. Emerging policies- changing perspectives on cooperative federalism in India. Changing role of NITI Ayog and the Finance Commission.

References:

Atkinson, A.B. and J.E.Siglitz (1980), Lectures on Public Economics, Tata McGraw Hill, New York.

Auerbach, A.J. and M.Feldstern (eds) (1985), Handbook of Public Economics, Vol.1. North Holland, Amsterdam.

Buchanan, J.M. (1970), The Public Finance, Richard D.Irwin, Homewood.

Goode, R. (1986), Government Finance in Developing Countries, Tata McGraw Hill, New Delhi.

Houghton, J.M. (1970), The Public Finance: Selected Readings, Penguin, Harmondsworth.

Jha, R. (1998,) Modern Public Economics, Routledge, London.

Menutt, P. (1996), The Economics of Public Choice, Edward Elgar, U.K.

Musgrave, R.A. (1959), The Theory of Public Finance McGraw Hill, Kogakusha, Tokyo.

Musgrave, R.A. and P.B.Musgrave (1976), Public Finance in Theory and Practice, McGraw Hill, Kogakusha, Tokyo.

Shoup, C.S. (1970), Public Finance, Aldine, Chicago.

Shome, P. (ed), (1995), Tax Policy: Handbook, Tax Division, Fiscal Affairs Dep[artment, International Monetary Fund, Washington D.C.

Atkinson, A.B. and J.E.Siglitz (1980), Lectures on Public Economics, Tata McGraw Hill, New York.

Auerbach, A.J. and M.Feldstern (eds) (1985), Handbook of Public Economics, Vol.1. North Holland, Amsterdam.

Buchanan, J.M. (1970), The Public Finance, Richard D.Irwin, Homewood.

Goode, R. (1986), Government Finance in Developing Countries, Tata McGraw Hill, New Delhi.

Houghton, J.M. (1970), The Public Finance: Selected Readings, Penguin, Harmondsworth.

Jha, R. (1998), Modern Public Economics, Routledge, London.

Menutt, P. (1996), The Economics of Public Choice, Edward Elgar, U.K.

Musgrave, R.A. (1959), The Theory of Public Finance McGraw Hill, Kogakusha, Tokyo.

Musgrave, R.A. and P.B.Musgrave (1976), Public Finance in Theory and Practice, McGraw Hill, Kogakusha, Tokyo.

Shoup, C.S. (1970), Public Finance, Aldine, Chicago.

Shome, P. (ed), (1995), Tax Policy: Handbook, Tax Division, Fiscal Affairs Dep[artment, International Monetary Fund, Washington D.C.

EC502 ECONOMETRICS I

Module I: Basic Econometrics:

Nature, Meaning and Scope of Econometrics-Mathematical Economics-Statistics and Econometrics-Methodology of Econometric Research.

Module II : Brief Review of Statistical Concepts:

Concepts and methods of Estimation - Concept of Sampling-Random and Non Random sampling - Stratified and cluster sampling - probability proportional to size - Multi stage random sampling and their applications - Sampling from normal distribution - Desirable properties of an estimator - Point and Interval Estimation - Confidence limits - Hypothesis testing - Type I and Type II errors. Testing based on Z, t and X^2 (Chi-Square) tests.

Module III : Problems in Regression Analysis:

Simple and linear regression model - Nature of disturbance term - Functional forms – Assumptions - Estimation through O.L.S. approach - Concept and derivation of R^2 - Concept and Analysis of Variance.

References:

- Amemiya, T. (1985), Advanced Econometrics, Harvard university Press, Cambridge, Mass.
- Baltagi, B.H. (1998), Econometrics, Springer, New York
- Dongherty, C. (1992), Introduction to Econometrics, Oxford University Press, New york.
- Goldberger, A.S. (1998), Introductory Econometrics, Harvard University Press, Cambridge, Mass.
- Gujarati, D.N. (1995), Basic Econometrics (2nd edition), McGraw Hill, New Delhi.
- Hill R.C., E.G. William and G.G. Judge (1997), Undergraduate Econometrics, Wiley, New York.
- Kennedy, P. (1998), A Guide to Econometrics (4th Edition), MIT Press, New York.
- Kmenta, J. (1997), Elements of Econometrics (Reprint Edition), University of Michigan Press, New York.
- Koutsoyiannis, A. (1977), Theory of Econometrics (2nd ed), The Macmillan Press Ltd., London.
- Krishna, K.I.L. (ed) (1997), Econometric Applications in India, Oxford University Press, New Delhi.
- Maddala, G.S. (ed) (1993), Econometrics Methods and Application (2vols), Aldershot U.K.
- Theil, H. (1981), Introduction to Econometrics, Prentice hall of India, New Delhi.

Soft Core

EC503(A) DEVELOPMENT ISSUES OF INDIAN ECONOMY

Module I: Sector wise analysis – Agriculture:

trends in production, productivity and cropping pattern – Public investment in Indian Agriculture-Irrigation status-supply chain management problem- food inflation and food security issues- land bifurcation- debate on GM crops- WTO and Indian agriculture- Sustainable farming- New Agricultural policy-objectives and strategies-ever green revolution- availability of credit for agriculture.

Module II: Industry and Infrastructure:

Impact of reforms on production and productivity- Inter-state disparities- FDI and industrial performance- Status of SEZs- Industrial growth and environment- Status of industrial labour - Infrastructure and economic development-Infrastructure strategy of Twelfth FYP- Global energy crisis- Role of IT sector- Review of transport and communication services- Public investment in Infrastructure.

Module III: India and Global Economy:

India's role in global economy- Share in global trade and capital flows - BoP position – dependence on capital inflows- FDI and FPI- Impact of global economic crisis-WTO and Indian economy- Regional and other trade blocks- SAARC, BRICS, RICS, IBSA and G20 - India as an emerging global economic power.

Module IV: Karnataka Economy:

Land use and cropping pattern- food crisis- entrepreneurship and industrial development government initiatives-dynamics of labour market- Immigration- Fiscal management in Karnataka-FRBM Act and its impact on state's public economy-State level fiscal reforms and road map for future-Status of decentralization- Tourism industry- E-governance initiatives- WTO and Karnataka- Trends in export and foreign remittances.

References:

- A. P. Thirlwall, Growth and Development, 6th Edition Macmillan Press Ltd., 1999.
- Jean Dreze, Amartya Sen, An Uncertain Glory : India and its Contradictions, Penguin Publishers, 2013.
- Bhagavathi, Jagadish and Arvind Pangaria, Why Growth Matters: How Economic Growth in India Reduced Poverty and the Lessons for Other Developing Countries, 2013.
- Vijay Joshi & IMD Little, India's Economic Reforms; OUP, New Delhi, 1991-2001.
- Nayyar Deepak, Liberalization And Development: Collected Essays, OUP, 2008.
- Uma Kapila, Two Decades of Economic Reforms in India: Towards Faster, Sustainable and More Inclusive Growth, 3rd edition, Academic Foundation, New Delhi, 2013.
- RuddarDutt & KPM Sundaram, Indian Economy, S. Chand & Co. Ltd., New Delhi, 2013.
- Basu, Kaushik, ed, India's Emerging Economy, OUP, 2007.
- Parayil, Govindan (ed), 2000, Kerala: The Development Experience: Reflections On Sustainability And Replicability, Zed Books.
- Frank, Richard & T.M. Thomas Issac 2000, Local Democracy and Development: People's Plan for Decentralized Planning in Kerala.
- M.A. Oommen, Essays on Kerala Economy, Oxford and IBH, 1993.
- B.A. Prakash, Kerala Economy-Problems and Prospects, Sage Publications, New Delhi, 2006.
- P. Surendran and N. Radhakrishnan, The Kerala Economy, Vrinda Publications, New Delhi, 2009.
- Misra Puri, Indian Economy, Himalaya Publishers, 2013.
- Iswar C. Dhingra, Indian Economy; Environment and Policy, Sultan Chand and Sons, 2013.
- Agarwal A.N., Indian Economy : Problems of Development and Planning, Vikas Publishing House, New Delhi, 2013.

Database on Indian Economy

www.rbi.org
www.mospi.nic.in
www.indiastat.com
www.planningcommission.nic.in
www.censusindia.gov.in
www.spb.kerala.gov.in
www.in.undp.org
www.undp.org
www.data.worldbank.org

EC503 (B) ENVIRONMENTAL ECONOMICS

Module I: Welfare Economics and Environment:

Pareto optimality and competitive equilibrium; Fundamental theorems of welfare economics-Externalities and market inefficiency-externalities as missing markets; property rights and externalities, non-convexities and externalities; Pareto optimal provision of public goods-Lindahl's equilibrium, preference revelation problem and impure and mixed public goods, common property resources.

Module II: Measurement of Environmental Values:

Use values; Option values and non-use values-Valuation methods-Methods based on observed market behaviour; Hedonic property values and household production models (travel cost method and household health production function), Methods based on response to hypothetical markets, contingent valuation methods.

Module III: The Theory of Environmental Policy:

Environmental externalities-Pigouvian taxes and subsidies, marketable pollution permits and mixed instruments (the charges and standards approach), Coase's bargaining solution and collective action; Informal regulation and the new model of pollution control, Monitoring and enforcement of environmental regulation, Environmental Institutions and grass root movements; Global environmental externalities and climatic change-Tradable pollution permits and international carbon tax, Trade and environment in WTO regime.

Module IV: Economics of Natural Resource Management and Sustainable Development :

Theories of optimal use of exhaustible and renewable resources; Environmental and development trade off and the concept of sustainable development; Integrated environmental and economic accounting and the measurement of environmentally corrected GDP; Macroeconomic policies and environment.

Module V: Environmental and Natural Resource Problems in India:

Mechanism for environment regulation in India; Environmental laws and their implementation; Policy instruments for controlling water and air pollution and forestry policy; People's participation in the management of common and forest lands; The institutions of joint forest management and the joint protected area management; Social forestry-rationale and benefits.

References:

- Baumol, W.J. and W.E. Oates (1988), *The Theory of Environmental Policy*, (2nd Edition), Cambridge University Press, Cambridge.
- Berman, P. (ED), (1995), *Health Sector Reform in Developing Countries: Making Health Development Sustainable*, Boston: Harvard Series on Population and International Health.
- Blaug, M. (1972), *Introduction to Economics of Education*, Penguin, London.
- Bromely, D.W. (ED), (1995), *Handbook of Environmental Economics*, Blackwell, London.
- Cohn, E. and T. Gaske (1989), *Economics of Education*, Pergamon Press, London.
- Fisher, A.C. (1981), *Resource and Environmental Economics*, Cambridge University Press, Cambridge.
- Hanley, N. J.F. Shogern and B.White (1997), *Environmental Economics in Theory and Practice*, Macmillan.
- Hussen, A.M. (1999), *Principles of Environmental Economics*, Routledge London.
- Jeroen, C.J.M. van den Bergh (1999), *Handbook of Environmental and Resource Economics*, Edward Elgar Publishing Ltd., U.K.

EC503 (C) HEALTH ECONOMICS

Module I: Introduction to Health Economics:

Defining Health Economics/Economics of Health Care - Economic Theory - Health Needs and Health Care Sector, Role of Health Care Services in HRD - Global Health Scenario - Major Diseases - Estimates of Disease Burdens - Importance of Usefulness of Health Care Statistics Estimation of Economic Value of Health Care Services.

Module II: Supply and Demand for health care services:

Supply Function of Health Care Services - The Physicians - The Hospital and Nursing Homes - The Physician Induced Supply for Health Care - Cost Function of Health Care - A Hierarchical Structure - Health Care Network Demand for Health Care: Conceptual Framework - Health Needs - Diseases and Demand for Health Care - Derivation of Individual and Market Demand for Health Care (Illness Cases) - Impact of Health Insurance on Health Care Demand - The Role of Quality in Demand for Health Care.

Module III: Financing National Health Care Systems:

Government Financing for Health Care - Health Care as Pure Public Good and Merit Good - Efficiency and Equity in Financing Health Care Sector - Individual (Private) Financing of Health Care - Household Behaviour - Health Insurances - Role of Individuals - The Government and the Insurance Companies - Social Insurance for Health Care of the Poor, Disabled and Aged - Alternative Payment Systems for Health Care - Role of Development Finance Institutions in Financing Health Care.

Module IV: Health Inputs and Public Health:

Health Inputs - Hospital Building Infrastructure, Drugs Etc.

Public Health - Definition - Problems of Public Health - Social Externalities and Threats to Health - Tobacco, Alcohol and Drugs Abuse - Environmental Pollution and Health - AIDS - a Threat to Development.

Module V: India's Health Sector:

Health Sector Under Five Year Plans - National Health Policy - Emerging Health Insurance Market - Trends in Public Expenditure on Health and Family Welfare - Problems of Health Care Sector.

References:

Feldstein, N.S. (1967), Economic Analysis of Health Services Efficiency, Amsterdam, North Holland.

Folland, Sherman, Alen C. Goodman and Miron Stano (1997), The Economics of Health and Health Care, Prentice-Hall, New Jersey.

GOI (1983), National Health Policy, Ministry of Health and Family Welfare, New Delhi.

Government of India, Five Year Plan Developments (Especially Sixth Plan and On) Planning Commission, New Delhi.

Heggade, Odeyar, D. (1999), Hospital Management, Mohit Publications, New Delhi.

Pholps, Charles, E. (1997), Health of Economics, 2nd Ed., Addison-Wesley, Reading.

Weisman J. (1961), Economics of Public Health, University of Pennsylvania, Pennsylvania.

World Bank (1987), The Financing of Health Services in Developing Countries - An Agenda for Reform, World Bank Policy Study, Washington D.C.

World Bank (1994), Investing in People: The Health Sector, World Bank, Washington D.C.

Zweifel, Peter and Freidrich Breyer (1997), Health Economics, Oxford University Press, New York.

EC503(D) RESEARCH METHODOLOGY

Module I: Foundations of Research:

What is Research? - Meaning and Characteristics - Social Science Research - Meaning and Scope - Objectives - Review of Literature - Reference and Documentation in the Library - Need for Research in Economics.

Module II: Types and Methods of Research:

Classification of Research - Pure and Applied Research - Exploratory, Descriptive, Diagnostic, Evaluation Action and Experimental Research Statistical Methods - Historical Research - Surveys - Case Study - Field Study - Steps in Research.

Module III: Planning of Research, Sampling and Objectives:

Identification of Research Problem - Hypothesis - Concepts - Research Plan - Sampling Techniques - Sample Design and Choice of Sampling Techniques - Sample Size - Objectives.

Module IV: Methods and Tools for Data Collection:

Meaning and Importance of Data - Sources - Primary and Secondary - Methods: Observation, Experimentation, Simulation, Interviewing, Panel and Mail Survey - Data Sources for Economics. Types of Tools - Construction of Schedules and Economics Questionnaire, Fieldwork - Nature of Fieldwork.

Module V: Processing of Data and Statistical Analysis of Data:

Introduction - Editing - Tabulation - Graphical Representation Statistical Analysis – different techniques, Testing of Hypothesis.

Module VI: Theoretical Distributions and Statistical Inference:

Basics of Probability and Statistics: Summation Notation, Properties of Summation Operation, Random Variables, Probability, Random Variables and Probability Distribution Function - Characteristics of Probability Distribution. Some important Probability Distribution, Standard, Normal Distribution, Chi-square Distribution, 't' Distribution, and F Distribution. Relationship among t, F and X^2 and Normal Distribution.

Estimation: The Meaning of Statistical Inference, Point Estimation and Interval Estimation, Properties of Point Estimation.

Hypothesis Testing - the Confidence Interval Approach. Type-I and Type-II Errors. The Test of Significance Approach to Hypothesis Testing. Forming Null and Alternative Hypothesis Using Z, 't' and X^2 and F Tests - Analysis of Variance (ANOVA Tables).

Module VII: Report Writing:

Types of Reports - Research Report Format - Documentation: Footnotes and Bibliography - Writing the Report - Presentation.

References:

Krishnaswamy O.R. (2002), Research Methodology in Social Science, Himalaya Publishing House, Bombay.

Kurian C.T. (1984), Research Methodology in Economics, Institute of Development Studies, Madras.

Veerachamy (2005), Quantitative Methods for Economists, New Age International Publishers, New Delhi.

Open Elective

EC504 INDIA IN GLOBAL ECONOMY

Module I: Introduction to Globalisation:

Concept and definition - Evolution - objectives - why globalisation? - process, dimensions and features - How to measure the extend of globalization? - Advantages and disadvantages - gainers and losers of globalization.

Module II: India and Global Economy:

India's role in global economy - Share in global trade and capital flows - BoP position - dependence on capital inflows - FDI and FPI - Impact of global economic crisis - WTO and Indian economy - Regional and other trade blocks - SAARC, BRICS, RICS, IBSA and G20 - India as an emerging global economic power.

Module III: Trade Policy in India:

Trade problems and policy changes in India-trade reforms since 1991-implications on BOP, exchange rate and factor movements-East Asian Crisis and India-International reserves and foreign debt problem in India-working of MNCs and their regulation-EXIM policy-WTO and competitiveness in Indian trade –agenda for future trade policy.

Module IV: International Factor Movements:

International capital and labour movements - Foreign Direct Investment (FDI), Its composition, direction and trends - Factor Determining FDI - MNCs and their operation-international trade in services and knowledge-based industries - GATS, TRIPs, TRIMs - trade problems of developing countries.

References:

Yusuf Shahid, Simon Everert and Weiping W.U. (ed) 2001, Facets of Globalisation: International and Local Dimensions of Development, The World Bank, Washington DC.
Stiglitz Joseph E. (2002), Globalisation and Its Discontents, W.W. Norton and Company, New York.
Goldin Ian and Kenneth Reinert (2006), Globalisation for Development World Bank and Palgrave Macmillan, Washington DC.

Petras James and Henry Vitmeyer (2001), Globalisation Unmasked Madhyam Books, Delhi.
Bhagawathi Jagadish (2004), In Defence of Globalisation, Oxford University Press, New Delhi.
Singh Karlijit (1998), Globalisation of Finance Madhyam Books, New Delhi.
Razin and Sadka - The Economics of Globalization - Policy Perspective from Public
Economics, 2010.
Backer, Epstein and Pollin - Globalization and Progressive Economic Policy, 2009.

IV SEMESTER

Hard Core

EC551 INTERNATIONAL ECONOMICS

Module I : International Trade Theories:

Basis of international trade-theories of absolute advantage, comparative advantage and opportunity costs-critique. Heckscher-Ohlin theory of international trade-factor price equalization theory-Leontief's paradox-empirical evidence of H-O theory-limitations.

Modern theories of international trade. Simultaneous equilibrium achievements models of Mundell and Swan-limitations Optimum currency area theories of Mundell, Mckinnon, Magnifico -Britton Wood Achievements and limitations of WTO.

Module II: Measurement of Trade Gains:

Factor supply increase-impact of trade-Rybczynski theorem-immiserizing growth and secular deterioration hypothesis-trade as engine of economic growth.

Module III: Commercial Policy:

Free, Restricted Policy - Arguments for tariff-partial and general equilibrium analysis-import tariffs versus import quotas-tariffs and terms of trade-nominal, effective and optimal tariff rates-effective rate of protection.

Stolper-Samuelson theorem-economic effects of tariffs-subsidies-non-tariff barriers-current policy.

Partial and general equilibrium analysis of customs union-free trade areas-approaches of Viner, Lipsey and Vanek-regional trade blocs-EU, NAFTA, SAARC/SAFTA, UNCTAD, WTO-trade liberalization and growth.

Module IV: International Factor Movements:

International capital and labour movements-MNCs and their operation-international trade in services and knowledge-based industries-GATS, TRIPs, TRIMs-trade problems of developing countries.

Module V : Balance of Payments:

Balance of payments accounting-balance of payments and balance of trade-BOP settlement and adjustment methods.

Exchange rates a-spot, forward rates-hedging, speculation, arbitrage-BOP and foreign exchange rate relationship- exchange rate overshooting-Approaches to BOP adjustment-monetary approach-elasticity approach-Marshall-Lerner-Robinson conditions-absorption approach of Alexander

Module VI : International Liquidity and Debt:

International monetary system-gold standard-Bretton Woods System-Reforms in International Monetary system-determinants of international reserves-problems of international liquidity – role of IMF and World Bank in International Liquidity

Foreign debt crisis-debt analysis-policy changes-current position

References:

Bhagavathi, J.(ed) (1981),International Trade,Selected Readings,Cambridge,University Press, Massachusetts.

Carbough,R.J. (1999),International Trade:Study,Guide and Work Book,(5th ed),Routledge Publishers, London.

Chacholiades, M. (1990), International Trade: Theory and Policy, McGraw Hill, Kogakusha, Japan.

Dana, M.S. (2000), International Economics: Study, Guide and Work Book, (5th Edition), Routledge Publishers, London.

Dunn, R.M. and J.H.Mutti (2000), International Economics, Routledge, London.

Kenen, P.B. (1994), The International Economy, Cambridge University Press, London.

Kindleberger, C.P. (1973), International Economics, R.D. Irwin, Homewood.

King, P.G. (1995), International Economics and Internataional Economic Policy: A Reader McGraw Hill International, Singapore.

Krugman, P.R. and M.Obstfeld (1994), International Economics: Theory and Policy, Glenview, Foresman.

Salvatore, D. (1997), International Economics, Prentice Hall, Upper Saddle River, N.J. New York.

Soderston, B.O. (1991), International Economics, The MacMillan Press Ltd., London.

Bhagavathi, J.(ed) (1981), International Trade,Selected Readings,Cambridge,University Press, Massachusetts.

Carbough, R.J.(1999), International Trade:Study,Guide and Work Book,(5th ed),Routledge Publishers, London.

Chacholiades, M.(1990), International Trade: Theory and Policy, McGraw Hill, Kogakusha, Japan.

Dana, M.S. (2000), International Economics: Study, Guide and Work Book, (5th Edition), Routledge Publishers, London.

Dunn, R.M. and J.H.Mutti (2000), International Economics, Routledge, London.

Kenen, P.B. (1994), The International Economy, Cambridge University Press, London.

Kindleberger, C.P. (1973), International Economics, R.D. Irwin, Homewood.

King, P.G. (1995), International Economics and Internataional Economic Policy: A Reader McGraw Hill International, Singapore.

Krugman, P.R. and M.Obstfeld (1994), International Economics: Theory and Policy, Glenview, Foresman.

Salvatore, D. (1997), International Economics, Prentice Hall, Upper Saddle River, N.J. New York.

Soderston, B.O. (1991), International

EC552 ECONOMETRICS II

Module I : Multiple Regression Model:

Multiple Regression analysis and related problems – specification and estimation - O.L.S method – Multicollinearity – Autocorrelation - Heteroscedasticity.

Module II : Regression with Qualitative independent variables:

Dummy variables -Dummy exogenous variables regression with dummy dependent variables -logic and predict model - errors in variables.

Module III : Simultaneous Equations Model:

Introduction and examples - the simultaneous equation bias and inconsistency of OLS estimators – Problems of identification - rules of identification - order and rank conditions - methods of estimating simultaneous equation system - indirect least squares method - Two stage least squares method and ML methods - applications.

References:

- Amemiya, T. (1985), Advanced Econometrics, Harvard university Press, Cambridge, Mass.
- Baltagi, B.H. (1998), Econometrics, Springer, New York
- Dougherty, C. (1992), Introduction to Econometrics, Oxford University Press, New York.
- Goldberger, A.S. (1998), Introductory Econometrics, Harvard University Press, Cambridge, Mass.
- Gujarati, D.N. (1995), Basic Econometrics (2nd edition), McGraw Hill, New Delhi.
- Hill R.C., E.G. William and G.G. Judge (1997), Undergraduate Econometrics, Wiley, New York.
- Kennedy. P. (1998), A Guide to Econometrics (4th Edition), MIT Press, New York.
- Kmenta, J. (1997), Elements of Econometrics (Reprint Edition), University of Michigan Press, New York.
- Koutsoyiannis, A. (1977), Theory of Econometrics (2nd ed), The Macmillan Press Ltd., London.
- Krishna, K.I.L. (ed) (1997), Econometric Applications in India, Oxford University Press, New Delhi.
- Maddala, G.S.(ed) (1993), Econometrics Methods and Application (2vols), Aldershot U.K.
- Theil, H. (1981), Introduction to Econometrics, Prentice hall of India, New Delhi.

EC553 PROJECT
DISSERTATION FORMAT

General Guidelines

1. Selection of a Topic
2. Pilot Survey, if needed
3. Significance of the Study
4. Review of Literature
5. Research Gap (Optional)
6. Conceptual Framework – Conceptualization & Operationalization (precise and specific meaning of the terms and concepts)
7. Theoretical framework (Optional)
8. Formulation of Research Questions /Issues
9. Research objectives
10. Hypotheses (Optional)
11. Coverage (Universe/ Sample & period of study)
12. Data source (Primary/Secondary)
13. Tools of analysis (Analytical Framework)
14. Social Relevance of the study
15. Limitations of the study
16. Chapter outlines
17. Introductory chapter
18. Result Chapter(s)
19. Conclusion Chapter
20. Appendices
21. Bibliography /References & Webliography

Structure of the Report

1.1 Title page/ Cover Page

- a. Title page
- b. Title of the project
- c. Name of the candidate
- d. Name and designation of the supervisor.
- e. Degree for which project is submitted.

- f. Name of the College
- g. Month and year the project is presented
- h. Declaration of the student & supervisor

1.2 Preface

1.3 Table of contents

- a. List of Tables
- b. List of Figures
- c. Glossary
- d. List of abbreviations
- e. Acknowledgment

1.4 Abstract/ Executive Summary (One page)

1.4. The Main Text

- a. Introductory Chapter: Items 3 to 16 mentioned above
- b. Other Chapters - Analysis, Results Interpretation
- c. Conclusion Chapter: Conclusions, Recommendations & Summary

1.5 End Notes (after each Chapter)

1.6 Bibliography or References (at the end of the thesis)

1.7 Appendices

- a. Questionnaire
- b. Interview Schedule
- c. Observation Schedule (optional)
- d. Coding Frame (optional)
- e. Letters sent to sample members (optional)
- f. Any Other

Length of the Project

1. Report length minimum of 100 pages excluding Appendix and Certificates
2. Alignment : Justify
3. Font : Times New roman
4. Font size : 12
5. Line spacing : 1.5
6. No Page Border

Departmental Requirement
(To be kept in the Department by the Supervisor)
Supervisor- Student Meeting Log

Date/Time	Discussion Areas	Summary of Discussions	Signature of the Supervisor
	Topic selection		
	Clarify Objectives		
	Literature Review Seminar1 (Sem. 3)		
	Research Design		
	Collect Data		
	Analyze Data		
	Write up		
	Supervisor's Comments		
	Final Draft Seminar 2 (Sem.4)		

Name of the Supervisor:

Name of the Student:

Notes:

1. The dissertation work may be started in the III semester itself for timely completion of the work at the end of the IV Semester.
2. Internal marks may be awarded on the basis of the timely completion of work at each stage and the final internal viva-voce on the topic selected by the candidate.

Soft Core (Electives)

EC554 (A) ECONOMICS OF INSURANCE

Module I: Introduction to Insurance and Re-insurance:

Meaning and Significance of Insurance – The Evaluation of Risk – Risk Perceptions and Reactions – Concept of Risk Management – Elements of Risk Management – Risk Assessment – Expected Utility and Decision making under Uncertainty – Expected Utility and Demand for Insurance – Classification of Insurance.

Production of Insurance – What Exposures are Insurable? The Role and Importance of Competition in Insurance Markets - Imperfection in Insurance Markets – Market Power – Externalities – Legal Aspects of Insurance – Legal Principles Relating to Insurance – Special Characteristics of Insurance Contracts, Role of Regulation – Law of Agency – Concept of Re-insurance – Fundamentals of reinsurance – Types of reinsurance – Reinsurance distribution systems – Reinsurance Markets in Developing Countries.

Module II: Risk Management:

Types of Individual Risks – Operational Risks – Financial Risks – Strategic Risks – Risk Financing – Risk Financing Options – Decision Factors – Property Valuation – Property Loss – Causes of Property Loss - Property Risk Control – Property Risk Financing – Use of Quantitative Techniques in Risk Management – Use of Estimates – Monte Carlo Simulation – Use of Monte Carlo Method.

Module III: Insurance and Economic Development:

Risk Management and Insurance in Economic Development – Insurance Institutions as Financial Intermediaries – Insurance Institutions as Investment Institutions – Insurance Institutions in Indian Capital Market – Insurance Institutions in other developing countries of Asia.

Module IV: Fundamentals of Life and Health Insurance and Policies:

Life and Health Insurance Fundamentals and Regulations – Life and Health Insurance Pricing Fundamentals — Experience Participation in Insurance –Interaction among Insurance Pricing Elements – Legal Aspects of Insurance – Insurance Policies - Term Life Insurance –

Endowment Insurance – Whole Life Insurance Policies – Individual Health Insurance Policies – Universal Health Insurance Policies.

Types of General Insurance and- Importance of General Insurance in a country's Economic Development – Policy Endorsement Conditions/Warranties - Marketing of General Insurance – Technology Development and General Insurance.

Module V: Rural, Social and Marine Insurance:

Various Rural Insurance Policies – Crop Insurance –Live Stock Insurance - Social Insurance – Unemployment Insurance. - Types of Marine Insurance – Marine Insurance Principle –Marine Insurance Policies.

Module VI: Planning for Wealth Accumulation and Retirement Needs:

Wealth Accumulating Planning – Life Cycle Planning – Planning for Accumulation, Objectives –Tax-Advantaged and Tax Non-Advantaged – Essentials of Individual Retirement Planning – Analysis of Retirement- Income Needs – Retirement Planning Strategies – Investing of Retirement, Pension Plans- Basic Principles of Pension Plans – Pension Plans in India – Annuities and Optional Benefits - Estate Planning – Process of Estate Planning – Estate Planning Tools- Life Insurance for Estate Liquidity.

Module V11: Insurance: Marketing and Regulation:

Marketing of Insurance Products – Role of Development Officers –Role of Insurance Agents – Information Technology and Insurance – E-Commerce and E-Insurance – Regulation of Insurance – Purpose of Government Intervention – Theories of Regulation – Insurance Regulation in India – Insurance Regulation and Development Authority (IRDA)

References:

- Bailey, R. (ED) (1999), Underwriting in Life and Insurance, LOMA, Atlanta, Ga
- Bhole, L.M. (1990), The Indian Financial System, Tata Mc Graw Hill, New Delhi
- Bickelhaupt, D.L. (1992), General Insurance, Irwin Inc., Burr Ridge III
- Black, K.Jr. and H.D. Skipper Jr. (2000), Life and Health Insurance, Prentice Hall, Upper Saddle River, New Jersey.
- Finsinger, J. and M.V. Pauly (Eds) (1986), The Economics of Insurance Regulation: A Cross National Study, Macmillan, London.
- Graves, E.E. and L.Hayes (Eds.) (1994), McGill's Life Insurance, The American College, Blyn Mawr, Pa.

Head, G.L. and S.Horn II (1991), Essential of Risk Management, Volume I, Insurance Institute of America Malvern, Pa.

Skipper, Jr.H.D. (Ed) (1998), International Risk and Insurance: An Environmental Managerial Approach, Irwin McGraw Hill, Boston

Tacchino, K.B. and D.A. Little (1993), Planning for Retirement Needs, The American College, Bryn Mawr, Pa.

Black, Jr.Kenneth and Harold Skipper Jr. (2005), Life and Health Insurance, (13th Edition), Pearson Education, Delhi

Rejda, George. E. (2005) Principles of Risk Management and Insurance, (9th Edition), Pearson Education, Delhi

Bailey, R. ED. (1999), Underwriting in Life and Insurance, LOMA, Atlanta, Ga.

Bhole, L.M. (1990), The Indian Financial System, Tata Mc Graw Hill, New Delhi.

Bickelhaupt, D.L. (1992), General Insurance, Irwin Inc., Burr Ridge III.

Black, K.Jr. and H.D Skipper Jr. (2000), Life and Health Insurance, Prentice Hall, Upper Saddle River, New Jersey.

Finsinger, J. and M.V. Pauly (Eds) (1986), The Economics of Insurance Regulation: A Cross National Study, Macmillan, London.

Graves, E.E. and L.Hayes (Eds.) (1994), McGill's Life Insurance, The American College, Blyn Mawr, Pa.

Head, G.L. and S.Horn II (1991), Essential of Risk Management, Volume I, Insurance Institute of America Malvern, Pa.

Skipper, Jr.H.D. (Ed) (1998), International Risk and Insurance: An Environmental Managerial Approach, Irwin McGraw Hill, Boston.

Tacchino, K.B. and D.A. Little (1993), Planning for Retirement Needs, The American College, Bryn Mawr, Pa.

Trieschmann, James S., Sandra G.Gustavson, and Robert E.Hoyt (2001), Risk Management and Insurance, (11th Edition), South-Western College, Publishing, Cincinnati, Ohio.

Rejda, George, E. (2001), Principles of Risk Management and Insurance, (7th Edition), Addison Wesley Longman, Inc., Boston, MS.

Black, Jr.Kenneth and Harold Skipper Jr. (2005), Life and Health Insurance, (13th Edition), Pearson Education, Delhi.

Rejda, George. E. (2005), Principles of Risk Management and Insurance, (9th Edition), Pearson Education, Delhi

EC554(B) FINANCIAL ECONOMICS

Module I: Introduction to Financial Economics:

Financial System – Importance and Functions, Markets, Equilibrium in Financial Markets, Financial Intermediaries, New Developments, Micro Finance, -financial inclusion and inclusive growth - Financial Sector Reforms in India

Module II: Money and Financial Markets:

Time value of money – Time Lines and Notation, Future Value of a Single Amount, Present Value of a Single Amount, Future Value of an Annuity, Present Value of an Annuity, Present Value of a Perpetuity, Intra-year Compounding and Discounting. Financial Statement Analysis – Financial Statements, Financial Ratios, Du Pont Analysis, Standardized Financial Statements, Valuation of Bonds and Stocks — Bond yields, Bond market, Valuation of Preference Stock, Equity Valuation – Dividend Discount Model, The P/E Ratio Approach, The Relationship between Earning-Price Ratio, Expected Return and Growth.

Module III: Risk and Investment Management Theories:

Risk and Return – Risk and Return of a Single Asset, Risk and Return of a Portfolio, Measurement of Market Risk, Determination of Beta, Relationship between Risk and Return. Portfolio Theory – Portfolio Risk, Markowitz Model, Capital Asset Pricing Model, Arbitrage Pricing Theory and Multifactor Models.

Module IV: Financial Trade Markets:

Derivatives Market: Options –Options and Their Payoffs just before Expiration, Factors Determining Option Values, Binomial Model for Option Valuation, Black-Scholes Model, Equity as a Call Option, Risky Debt and Options. Futures – Future Contracts, Financial Futures, Commodity Futures, Pricing of Future Contracts, Use of Future Contracts

Module V: Investment Analysis:

Portfolio Management – Definition of Portfolio Management – Passive Investment Management and Active Investment Management, Specification of Investment Objectives and Constraints, Selection of Asset Mix, Formulation of Portfolio Strategy, Selection of Securities, Portfolio Execution, Portfolio Revision, Performance Evaluation.

References:

Amencm, Noel and V´eronique Le Sourd, Portfolio Theory and Performance Analysis, John Wiley & Sons, Ltd. (UK), 2003.

Anthony Saunders, Anthony, and Marcia Millon Cornett, Financial Markets and Institutions, A modern Perspective, Tata Me Graw Hill.

Avadhani, V. A., Financial Economics-Theory and Practice - Millennium Ed., Himalaya Pub.

Bailey, E. Roy, The Economics of Financial Markets, Cambridge University Press, New York, 2005.

Baye, Michael and Dennis W Jansen, Money Banking and Financial Markets, An Economic Approach, Texas and A M University.

Bhole, L. M., Financial Institutions and Markets-Structure, Growth and Innovations, Tata McGraw Hill, New Delhi.

Chandra, Prasanna, Financial Management, 7th Edition, Tata McGraw Hill, New Delhi, 2008.

Chandra, Prasanna, Investment Analysis and Portfolio Management, 3rd Edition, Tata McGraw Hill, New Delhi, 2009.

Chandra, Prasanna, Managing Investments, Tata McGraw Hill.

Fabozzi, Frank J. and Harry M. Markowitz (Ed.), The Theory and Practice of Investment Management, John Wiley & Sons, Inc., Hoboken, New Jersey, 2002.

Hanson, James A. and Sanjay Kathuria, India, A Financial Sector for the 21st Century, Oxford University press.

Khan, M. V., Indian Financial system', Tata McGraw Hill.

Kohn, Meir, Financial Institutions and Markets, Tata McGraw Hill.

Gangadharan K(2012)Financial inclusion and inclusive growth: scope and Dimension, Reference Press, New Delhi

Pallale V. Bharati : Indian Financial System, Pearson, New Delhi, 2012.

EC554(C) MANAGERIAL ECONOMICS

Module I: The Nature and Scope of Managerial Economics:

Introduction - Definition, Relationship Managerial Economics to Economic Theory as well as Decision Science. Organization of Business Firms - Concepts and Types of Business Organization, Proprietorship, Partnership, Joint Stock Company, Corporation, Cooperatives.

Reasons for the existence of Firms and their Functions - The Objective and Value of the Firm: Model of Profit Maximization, Managerial Theories of Firm, Baumol's Sales Revenue Maximization Model, Baumol's Theory with Advertisement, Dynamic Model, Williamson's Model, Marris Model of Managerial Enterprises, Behavior Theories - Simon's Satisfying Model - Cyert and March's Theory of Firm. Measuring Efficiency of the Firm: Profitability Ratios, Financial Stability, Solvency and Gearing.

Module II: Demand Estimation and Forecasting:

The Identification Problem - Marketing Research Approaches - Regression Analysis - Problems in Regression Analysis - Demand Estimation.

Demand Forecasting: Time Series Analysis - Smoothing Techniques - Barometric Methods Econometric Models (Input-Output Forecasting).

Module III: Optimization Technique: Linear Programming:

Problems of Optimization - Linear Programming for Optimization - Meaning, Assumptions and Applications of Linear Programming, Basic Linear Programming Concepts - Procedure used in Formulating and Solving Linear Programming Problem - Linear Programming and Profit Maximization - Linear Programming and Cost Minimization - Graphical Solution and Simplex Method - The Dual Problem and Shadow Prices - Linear Programming and Logistics in the Global Economy. Game Theory and Optimization Technique in Decision Making Process.

Module IV: Price of Profits, Styles and Profit Analysis:

The Nature and Function of Profits: Business versus Economic Profit – Theory of Profit: Residual Claimant Theory, Wage Fund Theory, Dynamic Surplus Theory, Innovation Theory - Profit Policy - Break-Even Analysis and Profit Measurement, Profit Forecasting.

Module V: Pricing Practices and Strategies:

Specific Pricing Problems - Popular Pricing Practices: Cost-Oriented Pricing, Cost-Plus Pricing and Other Price Determinants, Peak-Load Pricing, Price over the Life Cycle of the Product, Penetration Price - Pricing of Multiple Products - Price Discrimination - International Price Discrimination and Dumping - Transfer Pricing.

Module VI: Capital Budgeting:

Capital Budgeting - an Overview - The Capital Budgeting Process.

Capital Budgeting Decision, Factors Influences in Investment Decision, Determining the Size of Capital Budget, Methods used to make Investment Decisions, Sources of Fund for Long-Term Financing, Measurement of Cost.

Module VII: Regulation and Risk Analyses:

The Role of the Government in the Economy - Risk and Uncertainty in Managerial Decision - Making - Long Run Investment Decisions.

Text Books:

Salvatane Dominick (1993), Managerial Economics in a Global Economy, McGraw-Hill Inc., New York.

Mc Guigon R. James, R. Charles Moyer, Frederick H Deb, Harris (2002), Managerial Economics: Applications, Strategy and Tactics, South Western, USA.

References:

Thomas Christopher R. and Charles Maurice S. (2005), Managerial Economics, McGraw-Hill Irwin, Boston.

Keat Paul G. and Philip K.Y. Young (2003), Managerial Economics - Economic Tools for Today's Decision Makers, Prentice Hall, New Jersey.

Samuelson William F. and Stephen G. Marks (2006), Managerial Economics, John Wiley and Sons, Inc., New Jersey.

Petersen H. Craig and W. Cris Lewis (1986), Managerial Economics, Maxwell Macmillan International Editions, New York.

Mehta P.L. (1997), Managerial Economics: Analysis, Problems and Cases, Sultan Chand and Sons, New Delhi.

Shankaran S. (1999), Managerial Economics, Margham Publications, Madras.

EC554 (D) ECONOMICS OF INFRASTRUCTURE

Module I: Introduction:

Infrastructure and economic development-infrastructure as a public good; social and physical infrastructure; special characteristics of public utilities. The peak-load, off-load problem, dual principle controversy; economies of scale of joint supply; marginal cost ;pricing vs. other methods of pricing in public utilities; cross-subsidisation-free prices, equity and efficiency Green Infrastrure.

Module II: Transport Economics:

The structure of transport costs and location of economic activities. Demand of Transport models of freight and passenger demand. Model choice; cost functions in the transport sector principle of pricing. Special problems of individuals models of transport; inter-modal condition in the Indian situation.

Module III: Communication:

Rate making in telephone utilities. Principles of decreasing costs in telephone industry characteristics of postal services. Criteria for fixation of postal rates. Measurement of standards of service in telephone and postal utilities.

Module IV: Electricity, Gas and Water Supply:

Bulk supply and pricing of electricity – the relative economics of thermal, hydel and nuclear power plant – the case for a national power grid – financing water utilities- urban and rural water supply – the exploitation of natural gas – pricing problem.

Module V: Social Infrastructure:

Organization and financing of supply of social services- private vs. public sector financing, recent debate about the fixation of prices of social services- development of social services in the successive Indian plans.

References:

Crew, M.A. and P.R.Kleindorfer(1979), Public Utility Economics, Macmillan, London.

Indian Council of Social Sciences Research(ICSSR)(1976), Economics of Infrastructure, Vol.VI, New Delhi.

National Council of Applied Economic Research(NCAER)(1996), India Infrastructure Report: Policy Implications for Growth and Welfare, NCAER, New Delhi.

Parikh, K.S.(Ed.)(1997), India Development Report 1997, Oxford, New Delhi.

Parikh, K.S.(Ed.)(1999, India Development Report – 1999.2000, Oxford, New Delhi.

Turvey, R.(ed.)(1968), Public Enterprises, Penguin, Harmondsworth.
