

Approved Syllabus for PhD Program in Economics



With Proposed effect from 2015-2016

**Department of Studies and Research in Economics
VIJAYANAGARA SRI KRISHNADEVARAYA UNIVERSITY**

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PhD Economics Course Work

PHEC 501: Research Methodology

Sub Code: PHEC 501	No. of Contact Hours per week : 03
Maximum Marks: 100	Internal Marks : 25, Final Exam Marks : 75

Objectives:

- To understand the fundamentals of conducting research.
- To familiarize students with different types of research designs.

Module I: Introduction to Research: 10 Hours

Research: types, criteria of good research, limitations & ethical issues in social research. Scientific Research Methods, Approach and Designs.

Module II: Research Process: 10 Hours

Steps, Problem discovery and formulation, Research Modeling- Hypothesis: Types, Formulation of Hypothesis, Errors in hypothesis testing, Parametric and Nonparametric tests, (Theory only).

Module III: Measurement in Research: 8 Hours

Measurement & Scaling Techniques, Scale Properties, Criteria for good measurement. Likert's Scale, Semantic Differential Scale, Thurstone-equal appearing interval scale, MDS – Multi Dimensional Scaling.

Module IV: Sampling & Data collection: 8 Hours

Principles of sampling design, Types of Sampling - Probability and Non-probability Sampling Techniques, Sample Size. Data collection: Source & Techniques. Goodness of Data: Reliability, Validity, Generalizability, Authenticity & Trustworthiness.

Module V: Data Analysis, Interpretation & Research report writing: 9 Hours

Univariate, Bivariate, Trivariate, Multivariate Analysis- Correlation and Regressions of all Types. Cluster Analysis, Conjoint Analysis, ANOVA – One-way & Two-way classification. Research report writing, Steps in Report

Selected References:

- Aaker David A., Kumar V., & George S. Day, (2007), Marketing Research, 9th Edition, John Wiley & Sons (ASIA) Pte Ltd, Singapore.
- Alan Bryman & Emma Bell, (2007), Business Research Methods, 2e/Oxford/2007.
- Bajpai, S. R., “Methods of Social Survey and Research”, Rampur, Kitab Ghar, 1960.
- Christine Daymon & Immy Holloway, (2003), Qualitative Research Methods in Public Relations and Marketing Communications, Routledge, London.
- Cochran, W.G. “Sampling Techniques” John Wiley and Sons, New York.
- Cohen, L., “Statistical Methods for Social Scientist an Introduction”, Englewood Cliffs, Prentice-Hall, 1955.
- Donald R. Cooper & Pamela S Schindler, (2007), Business Research Methods–TMH,/9e, New Delhi
- Goode, William J and Hatt, Paul K “Methods in Social Research” McGraw-Hill Books Co. New York.
- Gopal, M.H., “Introduction to Research Procedure in Social Sciences”, Asia Publishing House, Bombay, 1964.
- Gujarati Damodar, (1978), Basic Econometrics, 2nd International Edition, McGraw-Hill Book Co., Singapore.
- Gupta S. C., (2004), Fundamental Statistics, 6th Edition, Himalaya Publishing House, Mumbai.
- Hyman, M.H. et.al, “Interviewing in Social Research”, University of Chicago, Chicago, 1954.
- Ken Black, (2004), Business Statistics for contemporary Decision Making, 4th Edition, John Wiley & Sons (ASIA) Pte Ltd, New Delhi.
- Kothari C.R. (2004), Research Methodology, New Age International Publication New Delhi.
- Koutsoyiannis A., (2001), Theory of Econometrics, 2nd Edition, Palgrave, New York.
- Krishnawamy O.R. and Ranghanathan, M. (2007), Methodology of Research in Social Sciences, Himalaya Publishing House, Bangalore.
- Makridakis, Wheelwright & Hyndman, (2005), Forecasting Methods and Applications, 3rd Edition, John Wiley & Sons (ASIA) Pte Ltd, New Delhi
- Mandy Van der Velde, Jansen & Neil Anderson, (2004), Management Research Methods, Blackwell Publishing, UK.
- Myrdal, Gunnar, “Objectivity in Social Research”, Gerald Duckworth, London, 1970.
- Panneerselvam R., “Research Methodology” PHI Learning Private Limited, New Delhi
- Phillips, B. S., “Social Research Strategy and Tactics”, Macmillan, New York, 1968.
- Ramu Ramanathan, (2002), Introductory Econometrics with Applications, 5th Edition, Thomson Asia Pte. Lim, Singapore.

- Robert, A. Day, (1994), "How to write and Publish a Scientific Paper", Cambridge University Press, Great Britain.
- Sadhu, A. N., and Singh, Amarjit, "Research Methodology in Social Sciences" Himalaya Publishing House, Mumbai.
- Sharma, BA V and others (Ed) "Research Methods in Social Sciences" Sterling Publishers, New Delhi
- Singh, Sadhu, "Research Methodology in Social Sciences", Himalayas Publishing House, Bombay/Delhi/Nagpur, 1985.
- Teresa Bradley, (2002), Essential Mathematics for Economics and Business, 2nd Edition, John Wiley & Sons (ASIA) Pte Ltd, New Delhi
- Thanulingom, N., "Research Methodology" Himalaya Publishing House Bangalore
- Uma Sekaran, (2003), "Research Methods for Business- Skill Building Approach" 4th Edition, John Wiley & Sons (ASIA) Pte Ltd, Singapore.
- Walter Enders, (2004), Applied Econometric Time Series, 2nd Edition, John Wiley & Sons (ASIA) Pte Ltd, New Delhi.
- Wilkinson, S. and Bhandarkar, P.L. "Methodology and Techniques in Social Research", Himalaya Publishing House, Bombay.
- William G Zikmund, (2003) Business Research Methods, Thomson, 7/e, London
- Wilson, E.B., "Introduction to Scientific Research", McGraw-Hill, Bombay, 1952.

PhD Economics Course Work

PHEC 502: Advanced Economic Theory and Policy

Sub Code: PHEC502	No. of Contact Hours per week : 03
Maximum Marks: 100	Internal Marks : 25 and Exam Marks : 75

Objectives:

- To familiarize students with advanced topics in Economics.

Module I: Advanced Micro Economic Theory 09 Hours

Concepts of Duality – Envelope Theorem - Shepard's Lemma - Roy's identity - Recent Developments in Demand Analysis - Linear Expenditure Systems – AIDS – Game Theory - Nash equilibrium definition - Static games of complete information – Cournot model - Bertrand model of Duopoly - Dynamic games of complete information - Stackelberg model - Applications of games with incomplete information - Signaling Game – Asymmetric Information – Lemons Problem - Principal agent problem.

Module II: Advanced Macro Economic Theory 09 Hours

New Classical Macroeconomics - Supply Side Economics and Rational Expectations Analysis – Inflation and Unemployment - Monetary and Fiscal Policy Issues - The Mundell Fleming Model. Modern theory of trade and trade policy, Theories of Balance of Payment and Exchange Rate Determination, Policy conflicts and Adjustment under Fixed and Flexible Exchange Rates, International Parity conditions, Fiscal Policy and Trade Balance.

Module III: Growth and Development 09 Hours

Growth & income distribution - Kuznets hypothesis - empirical studies – Measuring income distribution – Measures to ensure economic equality - Poverty concept - Measurement of poverty - Salient features of new growth theories – Contributions of Romar – Lucas – Arrow - Dennison - Becker & T.W. Schultz - Endogenous growth - Growth models of Solow – Ramsey - Overlapping Generations Model.

Module IV: Public Economics**8 Hours**

Evolution of Public Finance and Changing role of Government - Public Choice - Pricing of Public Goods - Revealed Preference Mechanism - Theories of Taxation - Public Expenditure Theories - Deficit Financing and Fiscal Management - Fiscal Federalism.

Module V: Contemporary Issues on Indian Economy**10 Hours**

Sectoral Composition of Indian economy - Planning and Reforms – Disinvestment - Fiscal and Monetary Policy Approaches - Tax Reforms - Central Government Finances - Financial Sector Reforms - Infrastructure Development Policies - Physical and Social - India's Trade Policy - WTO and Effects on Trade (Liberalization and Globalization) – Poverty - Income Distribution - Gender Inequality; Sustainable Development; Inclusive Growth.

Suggested readings:**Module I**

Deaton and Muellvauer (1980), Almost Ideal Demand System, American Economic Review, Vol 70, No.3, pp 312-226.

Diewert and Wales, Duality Approaches to Micro Economic theory.

Gibbons, Robert (1992), Game theory for applied Economics, Princeton University Press.

Martin J Osborne (1994), A Course in Game Theory, MIT Press.

Mascollel, Whinston, Green: Microeconomic Theory.

Module II

Romer, David (1996), Advanced Macroeconomics, McGraw Hill Publications.

Agenor and Montiel (2008), Development Macroeconomics, Princeton University Press.

Heijdra Ben and Fredrick (2000) Foundations of Modern Macroeconomics, Oxford University Press.

Mark C Nelson (2000), International Macroeconomics and Finance, Blackwell Publishers.

Blanchard and Fischer (1993), Lectures on Macroeconomics, Massachusetts Institute of Technology.

Baumol and Blinder (2010), Macroeconomics Principles and Policy, South-Western Cengage Learning.

Gandolfo GianCarlo (2002), International Finance and Open-Economy Macroeconomics, Springer Publications.

Obstfeld and Rogoff (1996), Foundations of International Macroeconomics, MIT Press.

Salvatore, Dominick, International Economics, 6th Edition (1998) Prentice Hall, 7th and 8th Editions (2001 and 2004) John Wiley & Sons.

Sodersten, Bo and Reed, G. (1994), International Economics, Macmillan Press Ltd., London.

Kenen, P.B, The International Economy, Prentice Hall Publication.

Module III

Aggarwal and Singh (1958), The Economics of Underdevelopment. Oxford university Press, New Delhi.

Chakarvarti, S (1981), Development Planning: The Indian Experience. Oxford University, Press, New Delhi.

Chakarvarti, S. (1982) Alternative Approaches to a Theory of Economic Growth, Oxford University Press, New Delhi.

Chenery, H. et-al(1987), Handbook of Development Economic V 01.1 and II. North-Holland.

Haq, M.: Reflection on Human Development, Oxford University Press. New Delhi.

Harris. John: (1982), Rural Development - Theories of Peasant Economy and Agrarian change.

Meier, G.M. (1971), Leading Issues in Economic Development Oxford University Press, New Delhi.

Myrdal. G (1968), Asian-Drama: An Enquiry into the Poverty of Nations, Pelican, London.

Sen, A.K. (1970), Growth Economics, Penguin.

Sen, A.K. (1981), Poverty and Famines, Allied publishers, New Delhi.

Sen, S.K. (1984), Resources, Values & Development, Basil Blackwell. London.

Thirwall, A. (1978), Growth and Development, Macmillan, London.

Module IV

Aerbach A.J Hand book of public Economics, Volume, 1,2,3 and 4 Harvard Unviersity, Cambridge, M.A USA

Brown C.V and Jackson – Public Sector Economics.

Chelliah Committee Reports on Tax reforms, Government of India.

Hyman, David – The Economies of Governmental Activity.

Mishan, E.J., (1982), Cost – Benefit Analysis - An informal introduction, George - Allen and Unwin, London.

Muellur, D.C.(1979), Public Choice, Cambridge University Press, Cambridge.

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

Reports of Finance Commissions, Government of India.

Tyagi.B.P, Public Finance, Jai Prakash Nath Publication, New Delhi.

Module V

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

Ahluwalia. I.J., Industrial Growth in India, Oxford University Press, New Delhi – 1985.

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

Bardhan, Pranab; Poverty Agrarian Structure and Political Economy in India. Selected Essays – Oxford University Press, New Delhi – 2003.

Bhargava, R.K.; Some Aspects of Indian Public Finances, Uppal Publishing House, New Delhi 1985.

Brahmananda, P.R. and V.R Panchmukhi (Edi.), The Development Process of Indian Economy, Himalayas Publishing House, New Delhi – 1987.

Chelliah Raja J; Fiscal Policy in under developed countries, George Allen and Unwin, London 1971.

Duff L, Government and Market, Orient Longman, New Delhi 1997.

Khusro AM. (1968) Readings in Agricultural Economics, Allied, Bombay.

Kuznets.S. (1965) Economic Growth and Structure, Oxford and DBH Publishing Compnay, New Delhi.

Mookherjee. D. (Edi); Indian Industry, Policies and Performance – Oxford University Press, New Delhi – 1997.

Mundle. S: Public Finance; Policy Issues for India – Oxford University Press, New Delhi – 1999.

Myrdal. Gunnar. Asian Drama: An Inquiry into Poverty of Nations, New Xark, Twentieth Century Fund.

Rao Hunumanta, C.H.; Agriculture, Food Security Poverty and Environment, Essays on Post Reform in India, Oxford University Press, New Delhi – 2005.

Schultz T.W. (1964 Transforming Traditional Agriculture, New Have, Yale Univesity Press

Srinivasan. T.N. (Edi.) Measurement of Inequality and Poverty, Oxford University Press, Calcutta, 1997.

Williamson, Oliver E: the Economic Institutions of Capitalism, firms, Markets, Relational Contracting, New York: Free Press.

World Bank; Re-Energising the Agriculture Sector to Sustain Growth and Reduce Poverty Oxford University Press, New Delhi – 2005.

PhD Economics Course Work

PHEC 503a: Agricultural Economics

Sub Code: PHEC503a	No of Contact Hours/week: 03
Maximum Marks: 100	Internal Marks:25 Exam Marks:75

Objectives:

- To enable the students to understand core issues in Agricultural Economics.

Module I : Agriculture and Economic Development 10 Hours

Nature and scope of agricultural -Traditional and modernization; Models of interaction between agriculture and the rest of the economy Interdependence between agriculture and rest-some empirical evidence- Schultz and Mellors's Theories of Agriculture Development; Agriculture in India's Economy.

Module II : Agricultural Production and Productivity 10 Hours

Agricultural production and Cropping Pattern in India — Resource use and efficiency; Production function analyses in agriculture; Factor combination and resource substitution; Cost and supply curves; Size of farm and laws of returns — Theoretical and empirical findings; Farm budgeting and cost concepts; Risk and Uncertainty in Agriculture Production; Crop Insurance. Infrastructure for Agricultural Development-Land Reforms in India-Agricultural Credit-Development of Irrigation. New Agricultural Technology- Agricultural Policy; Agricultural Subsidy - Agricultural Labour and Wages;

Module III : Diversification of Rural Farm Management 08 Hours

Meaning, Importance, Tools and Principles of Farm Management; Farm Accounting; Diversification of Agriculture in India; Contract Farming. Livestock economics — Livestock resources and their productivity; Problems of marketing; White revolution; Fishery and poultry development; Forestry, horticulture and floriculture; Issues and problems in rural industrialization and development of agro-based industries.

Module IV : Agricultural Marketing and Finance

08 Hours

Agricultural Marketing-Issues and Problems- Nature of Demand for Farm Production; Structure of Agriculture Product Markets; Marketing Functions; Channels of Agricultural Marketing; Marketing Efficiency; Input Supply and Distribution in India- Seeds and Fertilizers. Role of capital and rural credit; Organized and unorganized capital market; Rural savings and capital formation; Characteristics and sources of rural credit — Institutional and non-institutional; Reorganization of rural credit — cooperatives, commercial banks, regional rural banks; Role of NABARD.

Module V : Agriculture and External Sector

09 Hours

Agriculture in Globalization Context International trade in agricultural commodities; Commodity agreements — Role of World Trade Organization; Issues in liberalization of domestic and international trade in agriculture — Nature and features of agri-business; Role of MNCs; Globalization of Indian economy and problems and prospects of Indian agriculture; Impact of World Trade Organisation on Indian agriculture

Suggested Readings:

Bhaduri, A. (1984), The Economic Structure of Backward Agriculture, Macmillan, Delhi.

Bilgrami, S.A.R. (1996), Agricultural Economics, Himalaya Publishing House, Delhi.

Dantwala, M.L. et.al (1991), Indian Agricultural Development Since Independence, Oxford & IBH, New Delhi.

Government of India (1976), Report of the National Commission on Agriculture, New Delhi.

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

Gulati, A. and T. Kelly (1999), Trade Liberalization and Indian Agriculture, Oxford University Press, New Delhi.

Joshi, P.C. (1975), Land Reforms in India: Trends and Prospects, Allied Publishers, Bombay.

Kahlon, A.S. and Tyagi D.S. (1983), Agriculture Price Policy in India, Allied Publishers, New Delhi.

Rao, C.H. Hanumantha (1975), Agricultural Growth, Rural Poverty and Environmental Degradation in India, Oxford University Press, New Delhi.

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

Rudra, A. (1982), Indian Agricultural Economics: Myths and Reality, Allied Publishers, New Delhi.

Saini, G.R. (1979), Farm Size, Resource Use Efficiency and Income Distribution, Allied Publishers, New Delhi.

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PHEC 503b: Rural Development and Cooperation

Sub Code: PHEC503a	No of Contact Hours/week: 03
Maximum Marks: 100	Internal Marks:25 Exam Marks:75

Objectives:

- To enable the students to understand advanced concepts in Rural Development.

Module I : Introduction 10 Hours

Principle of Cooperation, Philosophy of Cooperation, Cooperation and Other forms of Economic organization. State and Cooperation, Role of Cooperative Sector in the National Economy. Growth of Cooperative movement in Britain, Germany, Italy, Denmark and Russia. The International Cooperation Alliance

Module II : Cooperative Movement in India 10 Hours

Cooperative movement in India, Pre-independence and Post- Independence period. Reports of different Committees. Role of cooperative in Agriculture & Rural Development. Cooperative Planning, targets under the current Plan. Meanings of FDI Bill 2012 and its effects on Indian Market.

Module III : Cooperative Credit 8 Hours

Cooperative credit, structure of Cooperative Banking Role of RBI in regulation of Cooperative Banking. Role of NABARD in the sphere of Cooperative Credit and Marketing. Practice of cooperation: Structure, Functions and the current problems of:-(a) Cooperative Credit, (b) Producers' Cooperative (c) Cooperative Marketing and(d) Consumers' Cooperative

Module IV : Technology for Rural Development in India 8 Hours

Progress and Problems of Rural Industrialisation - A Rational Approach - Institutional support - importance of Rural Technology - Biogas Technology - Technology for Rural Women - Rural Technology problems.

Module V : Rural Management and Rural Co-Operative Marketing 09 Hours

Agencies For Rural Development - Role of Voluntary Agencies - Council for Advancement of Peoples Action and Rural Technology - Training for Rural People - Panchayath for Rural Development - Role of Co-Operatives, State Level Co-Operative Marketing Organizations - National Co-Operative Developments Cooperation(NCDC) - Government Policy Measures.

Suggested Readings:

Dutt and Sundaram- Indian Economy, S.Chand Publications, New Delhi, 2013-07-02.

K. Vijayakumar Empowerment of weaker section future planning and strategies for Rural Development in India.

Katar Singh -Rural Development –Principles, Policies and Management

Mishra, S.K. and Puri V.K. - Economics of Development and Planning, Himalaya Publishing House, Mumbai, 2012.

Mukundan, N. -Rural Development and Poverty eradication in India.

Shankar Chatterjee- Implementation of Rural Development.

Vasant Desai: Rural Development in India, Himalaya Publishing House, Mumbai, 2012.

Venkata Reddy, K. – Agriculture and Rural Development Himalaya Publications.

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PHEC 503c: Environmental Economics

Sub Code: PHEC 503c	No. of Contact Hours per week : 03
Maximum Marks: 100	Internal Marks : 25 and Exam Marks : 75

Objectives:

- To enable the students to understand advanced concepts in Environmental Economics

- Module I: Basic Environmental Issues** **10 Hour**
Environment and ecology; linkages between ecology, environment and ecosystems; Material balance approach; Principles of Uncertainty, irreversibility, inter-temporal efficiency, inter-generational equity; Environment-development trade-offs; Environmental costs of economic growth, Limits to growth; Sustainable development — concepts and indicators; Environmental Kuznets curve
- Module II: Social Sectors and Environment** **10 Hours**
Pareto optimality and competitive equilibrium: Market failures; Theories of externality and public goods, solutions to externality, Coase's theorem, Property rights and transaction costs; Optimal provision of public goods — Lindahl's equilibrium; common property resources. Land use: Deforestation, urbanization and their impact on environment; Air and water pollution; Pigovian tax and subsidy on pollution control.
- Module III: Environmental Valuation, Education and Health Care** **09 Hours**
Environmental valuation; Environmental damages/benefits, social cost benefit analysis; Definitions: Use values, option values and non-use values — total economic value. Valuation techniques; production based, contingent valuation, hedonic-pricing, travel cost method, risk assessment, environmental impact assessment; Valuation of land, forest and mineral resources.
- Module IV: Economics of Resource Management** **08 Hours**
Theories of optional use of exhaustible and renewable resources; Integrated environmental and Economic Accounting and the measurement environmentally corrected GDP; Energy and Environment – Resource Scarcity, Pricing of Resources; Environmental laws and regulations in India

Module V: Global Environmental Issues

08 Hours

Globalisation and Environment Implications for Environmental Sustainability-
International Agreements and Mechanisms- National Initiatives – Role of NGOs -
Global warming – climate change and Environmental Management.

Suggested Readings:

Baumol, W.J. and W.E. Oates (1988): *The Theory of Environmental Policy* (2e), CUP, Cambridge.

Fisher, A.C. (1981): *Resource and Environmental Economics*, CUP, Cambridge.

Hanley, Shogren and White (1997): *Environmental Economics in Theory and Practice*, Macmillan.

Kolstad, C.D. (1999): *Environmental Economics*, OUP, ND.

Pearce, D.W. and R. Turner (1991): *Economics of Natural Resource Use and Environment*, John Hopkins Press, Baltimore.

Tietenberg, T. (1994): *Environmental Economics and Policy*, Harper Collins, NY.

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PHEC 503d: Economics of Growth and Development

Sub Code: PHEC 503d	No. of Contact Hours per week : 03
Maximum Marks: 100	Internal Marks : 25 and Exam Marks : 75

Objectives:

- To enable the students to study advanced topics in various economic development models.

Module I: Economic Growth I 08 Hours

Economic Growth and Development - Factors Affecting Economic Growth : Growth Models - Harrod and Domar, Instability of Equilibrium; Neo-classical Growth Models - Solow and Meade, Mrs. Joan Robinson's Growth Model; Cambridge Criticism of Neoclassical Analysis of Growth,

Module II: Economic Growth II 10 Hours

Technological Progress - Embodied and Disembodied; Hicks, Harrod; Learning by Doing, Production Function Approach to the Economic Growth; Total Factor Productivity and Growth Accounting; Growth Models of Kaldor and Pasinetti, Optimal Savings and Ramsay's Rule, Golden Rule of Accumulation, Two-Sector Model of Ujawa, Stability of Equilibrium; Tobin, Levhari, Patinkin and Johnson; Endogenous Growth; Intellectual Capital: Role of Learning, Education and Research.

Module III: Theories of Development 08 Hours

Classical Theory of Development - Adam Smith, Ricardo, Malthus and James Mill; Karl Marx Theory of Development - Theory of Social Change, Surplus Value and Profit; Immutable Laws of Capitalist Development; Crisis in Capitalism - Schumpeter Theory of Innovation - Role of Credit, Profit and Degeneration of Capitalism; Structural Analysis of Development; Imperfect Market Paradigm.

Module IV: Social and Institutional Aspects and Approaches to Development 10 Hours

Development and Underdevelopment - Perpetuation of Underdevelopment; Poverty; Measuring Development and Development Gap — Per Capita

Income, Inequality of Income, Human Development Index and Other indices - Human Resource Development; Population Problem and Growth Pattern of Population - Theory of Demographic Transition; Economic Development and Institutions - Markets and Market Failure, Issues of Good Governance. Partial Theories of Growth and Development - Vicious Circle of Poverty, Circular Causation, Unlimited Supply of Labour, Big Push, Balanced Growth, Unbalanced Growth, Critical Minimum Effort Thesis, Low Level Equilibrium Trap; Dualism - Technical, Behavioral and Social; Ranis and Fei model; Dixit and Marglin Model, Kelly Model; Dependency Theory of Development.

Module V: Sectoral Aspects of Development and International Trade 09 Hours

Role of Agriculture in Economic Development; Efficiency and Productivity in Agriculture, New Technology and Sustainable Agriculture; Rationale and Pattern of Industrialization in Development; The Choice of Techniques and Appropriate Technology; Terms of Trade Between Agriculture and Industry; Infrastructure and its Importance; Labour Markets; Trade as Engine of Growth; Static and Dynamic Gains from Trade; Prebisch, Singer and Myrdal Thesis vs. Free Trade; Export Led Growth; Dual Gap Analysis; Balance of Payments; Tariffs and Effective Protection; WTO and Developing Countries; Role of Monetary and Fiscal Policies in Developing Countries.

Suggested Readings:

- Behrman, S. and T.N. Srinivasan (1995), Handbook of Development Economics, Vol. 3, Elsevier, Amsterdam.
- Bhagwati, J. and P. Desai (1970), India : Planning for Industrialization, Oxford University Press, London.
- Brahmananda, P.R. and C.N. Vakil (1956), Planning for an Expanding Economy, Vora and Co., Bombay.
- Chakravarti, S. (1987), Development Planning : The Indian Experience, Clarendon 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.
- Gillis, M., D.H. Perkins, M. Romer and D.R. Snodgrass (1992), *Economics of Development*, (3rd Edition), W.W. Norton, New York
- Higgins, B. (1959), *Economic Development*, W.W. Norton, New York.
- Hogendorn, J. (1996), *Economic Development*, Addison, Wesley, New York
- Killick, T. (1995), *IMF Programmes in Developing Countries : Design and Impact*, Routledge, London.
- Kindleberger, C.P. (1977), *Economic Development*, (3rd Edition), McGraw Hill, New York
- Mason, M. (1992), *American Multinationals and Japan*, Harvard University Press, Cambridge, Mass.
- Mehrotra, S. and J. Richard (1998), *Development with a Human Face*, Oxford University Press, New Delhi.
- Meier, G.M. (1995), *Leading Issues in Economic Development*, (6th Edition), Oxford University Press, New Delhi.
- Meier, G.M. (1995), *Leading Issues in Economic Development*, (6th Edition), Oxford University Press, New Delhi
- Nayyar, D. (Ed.) (1994), *Industrial Growth and Stagnation : The Debate in India*, Oxford University Press, New Delhi.
- Therberge, J.D. (Ed.) (1968), *Economics of Trade and Development*, John Wiley, New York.
- Thirwal, A.P. (1999), (6th Edition), *Growth and Development*, Macmillan, U.K.
- Thirwal, A.P. (1999), (6th Edition), *Growth and Development*, Macmillan, U.K.
- Todaro, M.P. (1996), (6th Edition), *Economic Development*, Longman, London.

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PHEC 503e: International Economics

Sub Code: PHEC 503e	No. of Contact Hours per week : 03
Maximum Marks: 100	Internal Marks : 25 and Exam Marks : 75

Objectives:

- To enable the students to understand advanced concepts and theories of international trade and Policy.

- Module I: International Trade Theory** **8 Hours**
Trade and Development-Traditional theories of Trade, Mercantilists view on trade, Adam Smith's Absolute advantage model, David Ricardo's Comparative Advantage model, Comparative Advantage and Opportunity Cost, J S Mill and Haberler . Heckscher – Ohlin Theory of Trade – Factor Price Equalization Theorem – Capital Accumulation – The Rybczynski Theorem – Technological Progress and Trade: Immiserising Growth – Krugman's , Posner and Linder's theories – Product Cycle Theory– Recent developments - Export led growth strategy
- Module II: International Trade Policy** **8 Hours**
Terms of Trade – Concepts – Offer curves – Free trade v/s Protectionism- Economic Analysis of tariffs – partial equilibrium and general equilibrium – optimum tariff – Non-tariff barriers – Quotas and Quantitative Restrictions– Technical, Administrative and other regulations
- Module III: Balance of Payments** **10 Hours**
Balance of Payments-Meaning – components – Structure: Capital and Current Account – Equilibrium and disequilibrium in the BOPs - Methods of Correcting Disequilibrium- Implications.- Monetary Approach to Balance of Payments.
- Module IV: Exchange Rate** **09 Hours**
Foreign exchange market- functions, transactions in the foreign exchange market, Determination of exchange rates, exchange control objectives, methods; Exchange rate systems
- Module V: International Finance And Monetary Theory** **10 Hours**
Motives for international Capital movements – International money markets and capital markets – Derivatives and Futures. MNCs and FDI -Implications

for financial system and Monetary policy – International Finance Market
Integration- – International Monetary System – International Liquidity and
Special Drawing, Eurocurrency Markets – GDRs – ADRs – FIIs- World
Bank- IFC and IDA – MIGA – Asian Development Bank - The Global
Financial Crisis

Suggested Readings:

Kindleberger C.P International Economics, R.D Irwin, Heme wood

Mishkin .S.Frederic (2004), The Economics of Money, Banking and Financial Markets,
Seventh Edition, Pearson Addison Wesley Publication.

Peter H.Lindert and Thomas A Pugel International Economics, Irwin, Chicago

Salvatore Dominick International Economics, Macnikan Publishing company, New York.

Sodersten and Geoffrey Reed “International Economics”, Macmillan, Hampshire.

PhD Economics Course Work

PHEC 503f: Financial Economics

Sub Code: PHEC 503f	No. of Contact Hours per week : 03
Maximum Marks: 100	Internal Marks : 25 and Exam Marks : 75

Objectives:

- To enable the students to understand advanced concepts in Financial Economics.

- Module I: Introduction** **06 Hours**
Money, Banking and Financial Markets, Overview of Financial System
- Module II: Financial Markets** **10 Hours**
Understanding Interest Rates, the Behavior of Interest Rates, the Risk and Term Structure of Interest Rates, the Stock Market, the Theory of Rational Expectations, and the Efficient Market Hypothesis
- Module III: Financial Institutions** **10 Hours**
An Economic Analysis of Financial Structure, Banking and the Management of Financial Institutions, Banking Industry: Structure and Competition, Economic Analysis of Banking Regulation, Nonbank Finance, Financial Derivatives
- Module IV: Central Bank And Monetary Policy** **09 Hours**
Structure of Central Banks, Multiple Deposit Creation and the Money Supply Process, Determinants of the Money Supply, Tools of Monetary Policy, Conduct of Monetary Policy: Goals and Targets
- Module V: International Finance And Monetary Policy** **10 Hours**
The Foreign Exchange Market, the International Financial System, Monetary Policy Strategy: The International Experience. The Demand for Money, the Keynesian Framework and the *ISLM* Model, Monetary and Fiscal Policy in the *ISLM* Model, Aggregate Demand and Supply Analysis, Transmission Mechanisms of Monetary Policy: The Evidence, Money and Inflation, Rational Expectations: Implications for Policy.

Suggested Readings:

Chiarella.C, Flaschel.P, Franke.R, and Semmler.W (2009), Financial Markets and the Macro economy: A Keynesian perspective, Routledge International Studies in Money and Banking.

Mishkin .S.Frederic (2004), The Economics of Money, Banking and Financial Markets, Seventh Edition, Pearson Addison Wesley Publication.

PhD Economics Course Work

PHEC 503g: Health Economics

Sub Code: PHEC 503g	No. of Contact Hours per week : 03
Maximum Marks: 100	Internal Marks : 25 and Exam Marks : 75

Objectives:

- To enable the students to understand advanced topics in Health Economics.

- Module I: Introduction 10 Hour**
Nature and scope of health economics, fields of health economics. Special characteristics of health care. The Interface between health and economics.
Organisation of health care delivery in India- Health indicators of India-infant mortality, life expectancy at birth, death rate, cause specific morbidity and mortality rates; Sources of health statistics usefulness and limitations.
- Module II: Resource Allocation in the Health Sector 10 Hours**
General problems of Resource allocations- demand for health services and the roles of the physician, the pharmaceutical companies and health insurance on the demand for health services; multiple services of a hospital - pricing of services; trade-offs between quantity and quality; Production function, productivity, efficiency and equity; Spatial distribution and organisation of health care facilities.
- Module III: Evaluation of Benefits and Costs of Health Services 09 Hours**
Private benefits and private costs of providing health services- market failure. Provision of health services by the Govt; Cost benefit analysis to public health and family planning projects; the role of health in economic development; value of output-loss due to no. of sick days; and benefits and costs, both private and social, of training professional manpower such as physicians, dentists, pharmacists, nurses, etc.
- Module IV: Financing of Health Services 08 hours**
Per capita private and public expenditure on health services over time and in different parts of the country; sources of (public) finance for health; failure of private health insurance markets - need for a general health insurance; social health insurance for the poor, disabled and the aged.
- Module V: Health Services 08 Hours**

A comparative analysis of alternative payment systems such as health insurance, pre-payment scheme, savings-linked insurance system etc. Financing health services through specific (health cess) and general (general and indirect taxes) local govt. revenues. The role of development financing institutions in financing Health Services

Suggested Readings:

- Bailey R.M., "An Economist's View of the Health Services Industry", *INQUIRY*, Vol. VII, No.1, March 1969. Pp. 3.
- Becker M.H. et. al, Correlates of Physicians Prescription Behaviour, *INQUIRY*, Vol. 34, No.4, July 1986, pp. 3.
- Dunlop, D.W., "Benefit Cost Analysis: A Review of its Applicability in Policy Analysis for Delivery of Health Services", *Social Science and Medicine* Vol. IX, 1975, pp. 133-139.
- Feldstein, M.S., "Hospital Cost Inflation: A Study of Non-Profit Price Dynamics", *American Economic Review*, Vol. 51, Dec. 1971.
- Feldstin, P.J. and J.J. German, "Predicting Hospital Utilization: An Evaluation of Three Approaches, *INQUIRY*, Vol. II, No.1, June 1965 pp. 3.
- Govt. of India, Health Information India (Annual).
- Govt. of India, National Health Policy, 1983.
- Govt. of India, Report of the Group on Medical Education and Support Manpower (The Shrivastava Committee), The Manager of Publications, 1975.
- Govt. of India, Report of the Health Survey and Development Committee (The Bhore Committee), The Manager of Publications, 1946.
- Govt. of India, Report of the Health Survey and Planning Committee (The Mudaliar Committee), The Manager of Publications, 1961.
- ICSSR and ICMR, Health for All: An Alternative Strategy, 1981.
- J.P. Naik, An Alternative System of Health Care Services in India: Some Proposals, Indian Council of Social Science Research, Allied Publishers, 1977.
- Joseph, H., "Empirical Research on the Demand for Health Care", *INQUIRY*, Vol. No.1, March 1971, pp. 61, Moore WS. and H.B. Bock, "Estimating the Demand for Medical Care", *INQUIRY*, Vol. IX No.4, Dec. 1972, pp. 64.
- Kessel Renebn, A., "Price Discrimination in the Medicine", *Journal of Law and Economics* 1958.
- Krishna Kumar, T., "The Nature and Scope of Health Economics: An Expository Note", *Population and Health Perspectives and Issues*, 1982.
- Lave, J.R., L.B. Lave, "Economic Analysis of Health Services Efficiency: A Review Article, *Applied Economics*, Vol. 1, 1970, pp. 293-305.
- Lee. K. and A. Mills, *The Economics of Health in Developing Countries*, Oxford, 1983, Chapter 1.
- Mills A., M. Thomas, *Economic Evaluation of Health in Developing Countries: A Review and Selected Annotated Bibliography*, EPC Publication No.3, London School of Hygiene and Tropical Medicine London, 1984.

- New House J.P., "Economics of Group Practice", Journal of Human Resources, Vol. 8, No.1, 1973.
- Panchamukhi, P.R., 'Economics of Health: A Trend Report in ICSSR, A Survey of Research in Economics, Vol. VI, Infrastructure, Allied Publishers, 1980.
- Rothenberg, J., "Welfare Implications of Alternate Methods of Financing Medical Care", American Economic Review, Proceedings May 1951.
- Sorkin. A., "The Impact of Health on Economic Development", Chapter 3 in Sorkin, A., Health Economics in Developing Countries, Lexington Books, 1976.
- World Bank, Financing Health Services in Developing Countries: An Agenda for Reform, World Bank Policy Study, 1987

PhD Economics Course Work

PHEC 503h: Industrial Economics

Sub Code: PHEC 503h	No. of Contact Hours per week : 03
Maximum Marks: 100	Internal Marks : 25 and Exam Marks : 75

Objectives:

- To enable the students to understand advanced concepts in Industrial Economics.

Module I: Framework of Industrial Economics and Market Structure 10 Hours

Concept and Organization of a Firm - Ownership, Control and Objectives of the Firm; Passive and Active Behaviour of the Firm. Sellers' Concentration; Product Differentiation; Entry Conditions; Economies of Scale; Market Structure and Profitability; Market Structure and Innovation; Theories of Industrial Location - Weber and Sargent Florence; Factors affecting Location.

Module II: Market Conduct and Performance 10 Hours

Product Pricing - Theories and Evidence; Investment Expenditure - Methods of Evaluating Investment Expenditure; Theories and Empirical Evidence on Mergers and Acquisitions (M & As) and Diversification. Growth of the Firm - Size and Growth of a Firm; Growth and Profitability of the Firm; Constraints on Growth; Productivity, Efficiency and Capacity Utilization - Concept and Measurement, Indian Situation.

Module III: Indian Industrial Growth and Pattern 08 Hours

Classification of Industries; Industrial Policy in India - Role of Public and Private Sectors; Recent Trends in Indian Industrial Growth; MNCs and Transfer of Technology; Liberalization and Privatization; Regional Industrial Growth in India; Industrial Economic Concentration and Remedial Measures; Issues in Industrial Proliferation and Environmental Preservation; Pollution Control Policies.

Module IV: Industrial Finance and Project Appraisal 08 Hours

Owned, External and Other Components of Funds; Role, Nature, Volume and Types of Institutional Finance - IDBI, IFCI, KSFC, SIDC, Commercial Banks etc. Project Appraisal; Cost-Benefit Analysis - Net Present Value (NPV) and Internal Rate of Return (IRR) Criteria.

Module V: Industrial Problem and study on Selected Industries **09 Hours**

Structure of industrial labour; Employment dimensions of Indian industry; Industrial legislation; Industrial relations; Exit policy and social security; Wages and problem of bonus - labour market Reforms. Iron and Steel; Cotton Textiles; Jute; Sugar; Coal and Cement; Development of Small-Scale Industries in India.

Suggested Readings:

- Ahluwalia, I.J. (1985): *Industrial Growth in India*, Oxford University Press, New Delhi.
- Barthwal, R.R. (1985): *Industrial Economics*, Wiley Eastern Ltd., New Delhi.
- Cherunilam, F. (1994): *Industrial Economics: Indian Perspective (3rd Edition)*, Himalaya Publishing House, Mumbai.
- Dasai, B. (1999): *Industrial Economy in India*. (3rd Edition), Himalaya Publishing House, Mumbai.
- Government of India: *Economic Survey*(Annual).
- Hay,D.and D.J.Morris(1979): *Industrial Economics: Theory and Evidence*, House, Bombay.
- Kuchhal, S.C. (1980): *Industrial Economy of India (5th Edition)*, Chaitanya Publishing House, Allahabad.
- Reserve Bank of India: *Report on Currency and Finance*(Annual).
- Singh, A. and A.N. Sadhu (1988): *Industrial Economics*, Himalaya Publishing
- Varshney R.L. and Maheshwari K.L. *Managerial Economics*, Sultan Chand and Sons, New Delhi

PhD Economics Course Work

PHEC 503i: Labour Economics

Sub Code: PHEC 503i	No. of Contact Hours per week : 03
Maximum Marks: 100	Internal Marks : 25 and Exam Marks : 75

Objectives:

- To enable the students to understand advanced concepts in Labour Economics

Module I: Labour Markets 09 Hours

Nature and Characteristics of Labour Markets in Developing Countries Like India; Paradigms of Labour Market Analysis - Classical, Neo-Classical and Dualistic Economy; Demand for Labour in Relation to Size and Pattern of Investment; Choice of Technologies and Labour Policies; Supply of Labour in Relation to Growth of Labour Force; Labour Market Policies; Mobility and Productivity of Labour; Rationalization; Methods of Recruitment and Placement; Employment Service Organization in India.

Module II: Employment 10 Hours

Employment and Development Relationship - Poverty and Unemployment in Developing Countries; Unemployment - Concept, Types, and Measurement, Particularly in India; Impact of Rationalization, Technological Change and Modernization on Employment in Organized Private Industry, Public Sector and Employment in Agricultural Sector; Analysis of Educated Unemployment; Employment Policy in Five Year Plans and its Evaluation.

Module III: Wage Determination 10 Hours

Classical, Neo-Classical and Bargaining Theories of Wage Determination; Concepts of Minimum Wage, Living Wage and Fair Wage in Theory and Practice; Discrimination in Labour Markets; Wage Determination in Various Sectors - Rural, Urban, Organized, Unorganized and in Informal Sectors; Non-Wage Component of Labour Remuneration; Inflation-Wage Relationship at Micro and Macro Levels; Productivity and Wage Relationship; Analysis of Rigidity in Labour Markets; Asymmetric

Information and Efficiency of Labour Markets in Wage Determination; National Wage Policy; Wages and Wage Boards in India; Bonus System and Profit Sharing.

Module IV: Industrial Relations 8 Hours

Theories of Labour Movement — Growth, Pattern and Structure of Labour Unions in India, Achievements of Labour Unions; Causes of Industrial Disputes and their Settlement and Prevention Mechanism; Role of Tripartism; Current Trends in Collective Bargaining; Role of Judicial Activism; Labour Legislation in India; Indian Labour Laws and Practices in Relation to International Labour Standards.

Module V: State and Labour 8 Hours

State and Social Security of Labour - Concept of Social Security and its Evolution; Social Assistance and Social Insurance; Review and Appraisal of States Policies with Respect to Social Security and Labour Welfare in India; Special Problems of Labour: Child Labour, Female Labour, Discrimination and Gender Bias in Treatment of Labour; Receding State and its Effect on Working of Labour Markets; Labour Market Reforms - Exit Policy, Need for Safety Nets, Measures Imparting Flexibility in Labour Markets; Second National Commission on Labour; Globalization and Labour Markets.

Suggested Readings:

Datt, G. (1996), Bargaining Power, Wages and Employment: An Analysis of Agricultural Labour Markets in India, Sage Publications, New Delhi.

Hajela, P.D. (1998), Labour Restructuring in India: A Critique of the New Economic Policies, Commonwealth Publishers, New Delhi.

Jhabvala, R. and R.K. Subrahmanya (Eds.) (2000), The Unorganised Sector : Work Security and Social Protection, Sage Publications, New Delhi.

Lester, R.A. (1964), Economics of Labour, (2nd Edition), Macmillan, New York.

McConnell, C.R. and S.L. Brue (1986), Contemporary Labour Economics, McGraw-Hill, New York.

Memoria C B (1966) Labour Problems and Social Welfare in India kitab mahal Alhabad

- Papola T S P P Ghosh and A N Sharma (ed) labour, employment and Industrial Relations in India B r Publishing Corporation New Delhi 1993
- Papola, T.S., P.P. Ghosh and A.N. Sharma (Eds.) (1993), Labour, employment and Industrial Relations in India, B.R. Publishing Corporation, New Delhi.
- Rosenberg M.R. (1988), Labour Markets in Low Income Countries in Chenery, H.B. and T.N. Srinivasan, (Eds.), The Handbook of Development Economics, North-Holland, New York.
- Venkata ratnam C S (2001) Globalisation and Labour Management Relations Dynamics of Change – Sage Publications New Delhi

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PHEC 503j: Infrastructure Economics

Sub Code: PHEC 503j	No. of Contact Hours per week : 03
Maximum Marks: 100	Internal Marks : 25 and Exam Marks : 75

Objectives:

- To enable the students to understand advanced concepts in Infrastructure Economics

- Module I: Introduction** **06 hours**
Concepts and characteristics – Classification- Infrastructure and Economic Development- Theoretical approaches - Indicators of Infrastructure Development- Investment, Spread, Availability and Utilisation- Public Sector in Infrastructure Development-Role, Issues and Problems.
- Module II: Infrastructure Finance and Pricing** **10 hours**
Methods of Financing- – Types, Source, Public and Private, Resource use efficiency - Methods and techniques of pricing - Two-part tariff, peak load pricing, price discrimination and subsidization; Cost vs. Benefit as the basis; Cost based Approaches
- Module III: Irrigation and Energy** **10 hours**
Investment in Irrigation- Measurement of Benefits – Social Rate of Return on Investment- Pricing Methods – Environmental and Social Concerns – Energy – Economy Linkages – Energy Demand and Supply Analysis - Energy Pricing – Energy Crisis and Security – Private Participation: Opportunities and challenges- Need for Integrated Energy Policy
- Module IV: Transport and Communication** **09 hours**
Structure of Transport costs- Cost Functions – Demand for Transport: Determinants- Models of Passenger and Freight Demand- Rural and Urban Transport Planning - Cost Functions in Communication Sector - Standard of Services – Private Sector Participation – Pricing Methods – Issues in Governance and Regulation
- Module V: Social Infrastructure** **10 hours**
Investment in Education – Analysis of Production and Cost Functions – Measurement of Benefits – Educational Planning and Development - GATS and Education; Housing, Water Supply and Sanitation - Demand and Supply Situation – Flagship programmes – Public Sector and Community Collaboration- Privatisation feasibility – Involving Users – Environmental

and Social Concerns

Suggested Readings:

Blang on (Ed) (1971) Economics of Education, Penguin Books, England.

India Infrastructure Reports

Indian Council of Social Science Research (ICSSR) 1976, Economics of Infrastructure, vol. IV, New Delhi.

Kessides Christiue, “The Contributions of Infrastructure to Economic Development : A Review of Experience and Policy Implications, World Bank Discussion Paper 213, 1993.

Nosten H.S (1971) Modern Transport Economics, C.E. Merrill, London.

Parikh K.S. (Ed) India Development Reports, Oxford University Press, New Delhi.

Paul Stevens (Ed) (2000) The Economics of Energy Vol I & II.

Sankar U (1992) Pricing in Public Sector: Theory and Applications, Indian Economic Association Trust for Research and Development, New Delhi.

World Development Report 1994, “Infrastructure for Development, Oxford University Press, New York..

Zweifel Peter & Freidrick Breyer (1997) Health Economics, Oxford University Press, New York.

PhD Economics Course Work

PHEC 503k: Public Economics

Sub Code: PHEC503k	No of Contact Hours/week: 03
Maximum Marks: 100	Internal Marks:25 Exam Marks:75

Objectives:

- To enable the students to understand advanced concepts in Public Economics

Module I : Fiscal policy 08 Hours

Role of Government in organized society- Government in Mixed Economy- Public and Private Sector- Government as an agent for Economic Planning and Development. Objectives of Fiscal Policy- Fiscal Policy for Stabilisation- Keynesian Case- Compensatory Finance – Functional Finance – Balanced Budget Multiplier- Social Goals-Correcting Distributional Inequalities and Regional Imbalances.

Module II : Rationale for Public Policy 09 Hours

Allocation of resources — provision of public goods; Voluntary exchange models; Impossibility of decentralized provision of public goods (contributions of Samuelson and Musgrave); Demand revealing schemes for public goods — Contributions of Clarks, Groves and Leyard, Tiebout model, theory of club goods; Stabilization Policy — Keynesian case for stabilization policy; Uncertainty and expectations; Failure of inter-temporal markets; Liquidity preference; Social goals; Poverty alleviation; Provision of infrastructural facilities, removing distributional inequalities and regional imbalances

Module III : Public Expenditure and Debt in India 10 Hours

Structure and Growth of Public Expenditure - Recent Trends in Indian Public Expenditure – Expenditure Policy – Control of Public Expenditure in India. Issues and challenges of Indian Public Debt.

Module IV : Public Revenue in India 10 Hours

Sources of Public Revenue – Features and Assessment of The Indian Tax System – Theory of Optimal Taxation – Theory and measurement of Dead

Weight Losses – Modern Theory of Incidence – Tax Reforms in India – Raja Chelai Committee Report, Kelkar Committee Report I and II – Recent Trends in D. T. C. – Incidence of Major Taxes in India – VAT – MODVAT – CENVAT – GST.

Module V : Indian Public Finances

8 Hours

Indian tax system; Revenue of the Union, States and local bodies; Major taxes in India: base of taxes, direct and indirect taxes, taxation of agriculture, expenditure tax, reforms in direct and indirect taxes, taxes on services; Non-tax revenue of Centre, State and local bodies; Analysis of Central and State government budgets; Lack of flexibility in Central and State budgets, shrinking size of development finance through budgets; Trends in public expenditure and public debt; Fiscal crisis and fiscal sector reforms in India; Reports of Finance Commissions in India.

Suggested Readings:

Anderson John E Public Finance: Principles and Policy, Houghton Mifflin Company, Boston.

Bagchi A : Reading in Public Finance, CUP, New Delhi

Hugh Dalton – ‘ Principles of Public Finance’ Allied Publishers Pvt. Ltd.

Hyman David N Public Finance- A Contemporary Application of Theory to Policy, Thomson South – Western Ohio, USA.

Lekhi R.K – ‘Public Finance’ - Kalyani Publishers, NewDelhi.

Musgrave R.A & Musgrave P.A Public Finance in Theory and Practice, Mcgraw- Hill Kogakusha, Tokyo.

Om Prakash: Public Economics: Theory a practice, Vishal Publishing Co. Ludhiana.

Ph.D. Course Work Examinations

Economics

Paper Code:

Paper Title:

Time: 3 Hours

Max. Marks: 75

Instruction: **Answer all Sections**

SECTION-A

Answer any **Four** questions

(4X5=20)

Q1.

Q2.

Q3.

Q4.

Q5.

Q6.

SECTION-B

Answer any **Four** of the following questions

(4X10=40)

Q7.

Q8.

Q9.

Q10.

Q11.

Q12.

SECTION-C

Answer any **One** of the following questions

(1X15=15)

Q13.

Q14.