

UNIVERSITY OF KERALA

M. A. ECONOMICS PROGRAMME (Semester System)

REVISED SYLLABUS

(With effect from 2018 Admission Onwards)

2018

Syllabus for M.A. Economics Programme (Semester System) Offered in Affiliated Colleges.

(with effect from 2018 Admission Onwards)

Course Structure and Distribution of Marks

Semester	Paper Code	Title of the paper	Distribution of Instructional hours (Lecture) per semester	Instructional hours (Lecture) per week	Duration of ESA (Hrs.)	Maximum Marks		
						CA	ESA	Total
I	EC 211	Micro Economics I	120	7	3	25	75	100
	EC 212	Economics of Growth and Development	110	6	3	25	75	100
	EC 213	Indian Economic Policy I	110	6	3	25	75	100
	EC 214	Quantitative Methods for Economics	110	6	3	25	75	100
II	EC 221	Micro Economics II	120	7	3	25	75	100
	EC 222	Economics of Social Sector and Environment	110	6	3	25	75	100
	EC 223	Indian Economic Policy II	110	6	3	25	75	100
	EC 224	Econometrics and Research Methodology	110	6	3	25	75	100
III	EC 231	Macro Economics -I	120	7	3	25	75	100
	EC 232	International Economics I	110	6	3	25	75	100
	EC 233	Public Economics	110	6	3	25	75	100
		Optional I	110	6	3	25	75	100
IV	EC 241	Macro Economics -II	120	7	3	25	75	100
	EC 242	International Economics II	110	6	3	25	75	100
	EC 243	Financial Securities Market Analysis	110 [#]	6	3	25	75	100
		Optional II	110	6	3	25	100	100
	EC 244	Dissertation	-	-	-	-	-	100
		Viva-Voce	-	-	-	-	-	100
		Total	1800		-	-	-	1800

[#] Out of 110 hours, 5 hours for practical session.

CA : Continuous Assessment.

ESA : End Semester Assessment

OPTIONAL PAPERS

(One paper each in Semester III and Semester IV)

Semester	Paper Code	Title
III	EC 201	Agricultural Economics
	EC 202	Economics of Insurance
	EC 203	Labour Economics
	EC 204	Law and Economics
	EC 205	Mathematical Economics
	EC 206	Urban Planning
IV	EC 207	Advanced Econometrics
	EC 208	Demography
	EC 209	Economics of Infrastructure
	EC 2010	Industrial Economics
	EC 2011	Welfare Economics
	EC 2012	Women and Development

Scheme of Assessment

Continuous Assessment (C A): 25 marks

For the Papers other than the Paper “EC 243: Financial Securities Market Analysis”

Components	Marks
Attendance	5
Assignment	5
Seminar	5
Test Paper (average of the marks in two test papers)	10
Total	25

For the Paper “EC 243: Financial Securities Market Analysis”

Components	Marks
Attendance	5
Assignment	5
For attending 5 hours of practical work on online trade	5
Test Paper (average of the marks in two test papers)	10
Total	25

End Semester Assessment (ESA): 75 marks

This will be through a three hour written examination consisting of 10 very short answer questions (with no choices), each carrying 1 mark, 7 short answer questions to be chosen out of 10 questions, each carrying 5 marks, and 3 descriptive questions to be chosen out of five questions, each carrying 10 marks.

CORE PAPERS IN FIRST SEMESTER

EC 211: MICRO ECONOMICS – I

(Hours per semester: 120

Hours per week: 7)

Objectives

The purpose of the course is to provide an understanding of the principles of economics in application to individual decision makers, both consumers and firms. This course equips the students themselves with the various aspects of the conventional as well as the recent developments in microeconomic theory.

Course Contents

Module I: Recent Developments in Demand Theory (16 hours)

Pragmatic approach to demand analysis - constant elasticity demand function - distributed lag models (Nerlov's stock adjustment principle, Houthakker's and Tylors dynamic model) - linear expenditure system.

Module II: Production & Cost Analysis (24 hours)

Production function - homogenous and non-homogenous production functions - technical progress and production function - capital deepening, labor deepening and neutral technical progress - exogenous and endogenous technical progress - empirical production functions - Cobb-Douglas and Constant Elasticity Substitution production function - production function of a multi product firm.

Modern theories of cost - short run and long run - engineering cost curves - short run and long run - analysis of economies of scale - real and pecuniary economies of scale.

Module III: Imperfect Market Structures (32 hours)

Monopoly - monopoly power - social cost of monopoly - price discrimination - international price discrimination and dumping – inter-temporal price discrimination and peak load pricing - two-part tariff - tying and bundling - public policies towards monopolies - antitrust laws, regulations, public ownership - monopoly welfare loss.

Monopolistic competition- Chamberlin's (large group) model - equilibrium with new firm entering the industry; with price competition; with price competition and free entry- excess capacity – mark up over marginal cost - debate over advertizing.

Oligopoly- Non-collusive oligopoly - Cournot's duopoly, Bertrand duopoly, Chamberlin's small group model, Sweezy's kinked demand curve model.

Collusive oligopoly - cartels aiming at joint profit maximization and market sharing cartels – price leadership models; by low cost firm, by a dominant firm -brometric price leadership.

Public policy towards oligopoly: Antitrust laws, predatory pricing, tying.

Module IV: Theory of Games (24 hours)

Pay of matrix-Pure vs. mixed strategy – dominant strategy and Nash equilibrium - Prisoner's dilemma - Zero-sum game & non zero-sum game - Repeated games - enforcing a cartel – sequential games – game of entry deterrence.

Game Applications - important issues in game theory - cooperation, competition, coexistence and commitment.

Module V: Marginalist Controversy & Managerial and Behavioral Theories of the Firm (24 hours)

Hall and Hitch Report and full cost pricing principle - Gordon's attack on marginalism - Bain's limit pricing - collusion with and without new entrant - Sylos Labini's Limit pricing model - Baumol's theory of sales revenue maximization - single product model without advertizing-Marris' model of managerial enterprise - Williamson's model of managerial discretion – Cyert and March's behavioural model.

Reading List

Module-I

1. Koutsyiannis, A (2013), *Modern Microeconomics*, Macmillan Press, London (P-53-61)
2. Baumol, W.J (2009), *Economic Theory and Operations Analysis*, Prentice-Hall (P) Ltd, New Delhi.

Module-II

1. Mandal, RK (2007), *Micro Economic Theory*, Atlantic Publishers (P) Ltd (P-155-162,169-178,181-206)
2. Besanko, David & Braeutigam, Ronald (2015), *Micro Economics*, Wiley India (P) Ltd, New Delhi (P-163-169,191-195)
3. Raa, Thijsten (2013) *Micro Economics, Equilibrium and Efficiency*, Palgrave Macmillan (P.122-126)

4. Varian H.R (2003), *Intermediate Micro Economics*, East – West Press Edition (P-364-393)
5. Costa Da G.C (2001), *Value and Distribution* (P.79-81, 89-95)
6. Koutsiyannis, A (2013), *Modern Microeconomics*, Macmillan Press, London (P-77-78, 85, 99-101,114-121,126-137)
7. Snyder, Christopher & Nicholson, Walter (2012), *Microeconomic Theory-Basic Principles and Extensions*, Cengage learning (P-273-332)

Module-III

1. Salvatore, Dominick (2009), *Principles of Microeconomics* (P-301-303,309-314)
2. Mankiw, Gregory.N (2012), *Principles of Microeconomics*, 6th Edn, Cengage Learning (P-313,318-323,335-344,355-365)
3. Koutsiyannis, A (2013), *Modern Microeconomics*, Macmillan Press, London (P-202-212,216-232,237-252,412-413)
4. Krugman, Paul & Wells, Robin (2005), *Micro Economics'*, Worth Publishers, New York (P-325-328)
5. Mandal, RK (2007), *Micro Economic Theory*, Atlantic Publishers (P) Ltd (P-227-241,242-265,266-287)
6. Pindyck, Robert.S, Rubinfeld, Daniel, L, Mehta, Premal, L (6th edition), *Micro Economics* (P. 346-348,351-354,460-479)
7. Serrano, Roberto, Feldman, Allan, M (2013), *A short course in intermediate micro economics with Calculus*, Cambridge University Press (204-212,223-235)
8. Mandal, RK (2007), *Micro Economic Theory*, Atlantic Publishers (P) Ltd (P-227-241,242-265)
9. Varian H.R (2010), *Intermediate Micro Economics: A Modern Approach*, East– West Press Edition (440-520)
10. Snyder, Christopher & Nicholson, Walter (2012), *Microeconomic Theory-Basic Principles and Extensions*, Cengage learning (449-477)

Module-IV

1. Varian H.R (2013), *Intermediate Micro Economics*, East – West Press Edition (P-525-565)

2. Pindyck, Robert.S, Rubinfeld, Daniel, L, Mehta, Premlal, L(6th edition), *Micro Economics* (P. 355-365,369-391)
3. Serrano, Roberto, Feldman, Allan, M (2013), Snyder, Christopher &Nicholson, Walter (2012), *Microeconomic Theory-Basic Principles and Extensions*, Cengage learning (225-269)
4. *A short course in intermediate micro economics with Calculus*, Cambridge University Press (242-260)
5. Salvatore, Dominick (2009) *Principles of Microeconomics* (P-365-371)
6. Koutsyiannis, A (), *Modern Microeconomics*, Macmillan Press, London (P-406-412)
7. Snyder, Christopher &Nicholson, Walter (2012), *Microeconomic Theory-Basic Principles and Extensions*, Cengage learning (225-269)

Module-V

1. Koutsyiannis, A (), *Modern Microeconomics*, Macmillan Press, London (P-256-267,284-287,305-313,325-331,352-364,368-370)
2. Archibald G.C (Ed) (1971), *Theory of the firm*, Penguin (P) Ltd
3. Bain,J (1958),*Barriers to New Competition*, Harvard University Press, USA

EC 212: ECONOMICS OF GROWTH AND DEVELOPMENT

(Hours per semester: 110

Hours per week: 6)

Objectives

Development Economics represents an engaging branch of Economics. A course on the Economics of Growth and Development connects students of Economics to academic concerns, policies and practical solutions relevant for progression of all economies. The objective of this paper is to familiarizing students with the conceptual routes, theoretical dynamics and practical strategies of growth and development. It is expected that this course would orient them towards major themes of development, lead them towards more methodical probes and equip them with adequate analytical knowledge.

Course Contents

Module 1: Approaches to Development (20 hours)

Evolution of Development Economics-Approaches to development-Utilitarian- Social indicators- Basic needs- Quality of life- Redistribution with growth- Sustainable development- Responsible well being- Development ethics- Entitlements approach- Capabilities and functionings- Human development- Development as freedom- Human rights based approach- social capital.

Measurement of human development-Income poverty and Human poverty-Multidimensional Poverty Index-Institutions and economic development- Market- State- Civil Society-Behavioural development economics- Migration and development - Todaro Model.

Module 2: Theories of Economic Growth and Development-I (20 hours)

Classical theory-Adam Smith, Ricardo, Marx. Theory of Schumpeter - Harrod-Domar. Mahalanobis model-Joan Robinson. Solow-Swan model.Mead Kaldor-Mirrlees-Pasinetti.

Module 3: Theories of Economic Growth and Development-II (20 hours)

Production Function approaches: Learning by doing; Total Factor Productivity; Ramsay's rule and optimal savings; Golden Rule of Accumulation; Hicks and Harrod; Endogenous growth models (Romer; Uzawa-Lucas, AK).

Module 4: Structural aspects of development (20 hours)

Dualistic theories- Fei Ranis - Modernisation theory, Structuralist approaches: Furtado Singer-Prebisch - Dependency Theories: Samir Amin; Gundar Frank - Neo-Marxist approach, Baran - World systems approach-Emmanuel Wallerstein - Basic principles of Neo Liberalism.

Module 5: Emerging Issues (30 hours)

Inequality: Convergence Vs Divergence - Globalisation and Development: Views of Stiglitz - Participatory Development: tyranny / transformation Post 2015 development agenda - Impasse in development studies - Alternatives to the impasse.

Reading List

Module 1:

Basic reading list:

1. Thirlwall,A.P. 2006.Growth and Development :With Special Reference to Developing Economies. Macmillan.UK.
2. Todaro,M.P and Smith. 2014. Economic Development. Pearson Education.USA.
3. Fukuda-Parr and Shiva Kumar (eds.).Readings in Human Development.OUP.Oxford.

Additional reading List:

1. Sen, Amartya.1999. Development as Freedom. OUP.Oxford.
2. UNDP.Human Development Reports.1991;1994; 1995;1997;2000;2010
3. World Development Report.2015.Mind, Society and Behaviour. World Bank.Washington.
4. Chambers,R. 2005.Ideas for Developemnt.Earthscan.London
5. Gasper, D.2004.The Ethics of development.Edinburgh Uty.Press.Edinburgh
6. Ros,Jaime.2013.Rethinking Economic Development,Growth and Institutions. OUP.Oxford
7. Howell, Jude and J.Pearce.2002.Civil Society and Development. Lynne Rienner.London
8. Desai, Vandana and R.B.Potter.2014. The Companion to Development Studies. Routledge.London
9. Galbraith,J.K..1962. Economic Development in Perspective.Harvard University Press.USA

10. Mahbub-ul Haq.1995.Reflections on Human development. OUP.Oxford.

Modules 2, 3&4

Basic reading list:

1. Thirlwall,A.P. 2006.Growth and Development :With Special Reference to Developing Economies. Macmillan.UK.
2. 2.Todaro,M.P and Smith. 2014. Economic Development. Pearson Education.USA.
3. Ghatak, Subrata.1998.Introduction to Development Economics.Routledge.NY.
4. Jomo.K.S (ed.). 2005. The Pioneers of Development Economics. Zed Books. London
5. Meier,G.M and Rauch.2005.Leadng Issues in Economic Development. Oxford University Press. Oxford.
6. 6.Palgrve Dictionary of Economics

Additional reading List:

1. 1.Meier.G.M &Seers.2000.Pioneers in Development.OUP.Oxford.
2. Dasgupta, Dipankar.2010. Modern Growth Theory. OUP.Oxford.
3. Solow.R.M. 2000. Growth Theory: An Exposition. OUP.Oxford.
4. 4.Ray,Debaraj.1998. Development Economics. Princeton .New Jersey.
5. Becker.G.S.1993. Human Capital. The University of Chicago Press. Chicago.
6. 6.Behrmans and Srinivasan.1995. Handbook of Development Economics. Vol.3. Elsevier.Amsterdam.
7. Kant, Rajani.1994. (ed.)Paradigms in Economic Development. M.E.Sharpe.NY.
8. Cypher,J.M. and J.L.Dietz. (eds.) 2004. The Process of Economic Development. Routledge.London.

Module 5.

Basic reading list:

1. Khan, Sharukh Rafi. 2014. A History of Developemnt Economics Thought.:Challenges and Counter Challenges. Routledge.London.
2. Krugman, P. 1995. The fall and rise of development Economics. In Development, Geography and Economic Theory, Chapter 1. Cambridge: MIT Press.
3. Schuurman,F.J.(eds.). 2004. Beyond the Impasse: New Directions in Development Theory. Zed Books.London.
4. Stiglitz,J. 2002. Globalisation and its Discontents.Norton&Co.USA.

5. Cooke,B. and Uma Kothari (eds.) . 2004. Participation: the New Tyranny? Zed Books.London.
6. Shorrocks, A. and Ralph Hoven (eds.).2004. Growth, Inequality and Poverty. OUP.Oxford.
7. Thomas Eicketty.Capital in the 21st Century

Additional reading List:

1. Cypher,J.M. and J.L.Dietz. (eds.) 2004. The Process of Economic Development. Routledge.London.
2. Munck and Hearn. (eds.).1999.Critical Development Theory. Zed Books.London.
3. Odekon, M (ed.). 2006.Encyclopedia of World Poverty.Sage.London.Vol.I
4. Sunna.C and Gualerzi (eds.).2016. Development economics in the Twenty –First Century.Routledge.London.
5. Odekon, M (ed.). 2006.Encyclopedia of World Poverty.Sage.London.Vol.I
6. Stiglitz,J. 2007. Making Globalisation Wok. Norton&Co.USA.
7. Kuznets, Simon. Economic Growth and Income Inequality. *The American Economic* Leeson and Minogue.(eds.) 1988.Perspectives on Development. Routledge.London.

EC 213: INDIAN ECONOMIC POLICY - I

(Hours per semester: 110

Hours per week: 6)

Objectives

The Purpose of this course on Indian Economy is to enable the students to have an understanding of the various issues of the Indian Economy with a policy perspective. The focus of the syllabus is on the development perspectives of Indian Economy during the post Liberalization period since 1991.

Course Contents

Module 1 Economic Policy prior to 1991 (10 hours)

Mixed Economy- Centralized planning and Five Year Plans- Market intervention Policies-Public Sector Investment Policies.

Module 2 Structural Adjustment Reforms (20 hours)

Liberalization, Privatization and Globalization-Changes in reforms implemented by successive central Governments in India-NITI Ayog and discontinuation of Central Planning- Global Economic Crisis and its impact on Indian Economy- Recent Trends in Economic Growth and Structural Change-Demonetization and its effects on Indian Economy

Module 3 Population, Unemployment and Poverty (24 hours)

Demographic Changes- Trends and Patterns, New Population Policy, Urbanisation and its trend-Unemployment- Methods of estimating Unemployment and their limitations, Various committees for measuring Unemployment and their recommendations , Recent Employment Guarantee Programmes- Global Migration and Foreign Remittances - Poverty in India - Estimation of Poverty and their limitations, Recent committee Reports - Tendulkar, Saxena, Hashim and Rangarajan - Poverty Eradication Programmes .

Module 4 Agricultural Policies and Agricultural Development (20 hours)

Trends, Pattern and Performance of Agriculture Growth – Land Reforms and its impact, Changes in land use and cropping pattern, New Agriculture Policy 2000 onwards, Agricultural marketing, credit and finance - WTO and Indian Agriculture- Current Issues in Indian agriculture(agriculture credit, debt problems, subsidy etc).

Module 5 Industrial Policy and Industrial development (18 hours)

New Industrial Policies, Structural changes in Indian Industries since the reform period- Role of FDI in India's industrialization process, ICT based industrial development strategy - Impact of economic reforms on Small Scale industries.

Module 6 Service Sector in India (18 hours)

An overview of Service Sector in India - Transport and Communication, IT, Tourism (Growth, Performance , Market size and exports) - Power Policy and Power Development- FDI inflow in Service Sector, Role of WTO in Service Sector, Contribution of Service Sector to India's GDP.

Basic Reading List

1. Kapila Uma (ed) (2016) *Indian Economy Since Independence: A Comprehensive and Critical Analysis of India's Economy 1947-2016*, Academic Foundation, New Delhi
2. Ruddar Dutt and Sundaram (2016): *Indian Economy*, S Chand and Company, New Delhi
3. J K Mishra and V K Puri (2014):*Indian Economy: The Development Experience*, Himalaya Publishing House, Mumbai
4. B A Prakash (ed) (2012)*The Indian Economy Since 1991:Economic Reforms and Performance*, Pearson, New Delhi
5. India 2016, Publication Division, New Delhi
6. Government of India, *Economic Survey* (Annual Issues), Ministry of Finance, New Delhi, Accessible via URL-<http://indiabudget.nic.in/>

Additional Reading List

1. Ahulwalia, I.J. and I.M.D. Little (Eds) (1999), *India's Economic Reforms and Development*, (Essays in honour of Manmohan Singh), Oxford University Press, New Delhi.
2. Anne. O. Krueger. (ed) (2002), *Economic Policy Reforms and Indian Economy*, Oxford University Press, New Delhi.
3. Bhramananda P R and V A Panchamukhi (Ed) (2001) *Development Experience in Indian Economy*, Interstate Perspectives, Bookwell, New Delhi
4. Banik Nilanjan (2015) *The Indian Economy: A Macro Economic Perspective*, Sage Publications, New Delhi

5. Balakrishnan Pulapre (ed) (2012) *Economic Reforms and Growth in India*, Orient Black Swan, New Delhi
6. Chakravarthi S (1996). *Development Planning: The Indian Experience*, Oxford University Press
7. M.M.Sury, Vibha Mathur (2013), *Five Year Plans of India: First Five Year Plan(1951-52 to 1955-56 to Twelfth Five Year Plan(2012-13 to 2016-17)*, Volume I ,New Century Publication.
8. R K Mishra and K Trivikraman(ed)(2013) *The Global Financial Crisis: Challenges and Opportunities*, Academic Foundation, New Delhi
9. Reddy Rammohar C (2017) *Demonetization and Black Money*, Orient Blackswan, New Delhi
10. Jalan, B. (1992), *The Indian Economy – Problems and Prospects*, Viking, New Delhi
11. Joshi, V. and I.M.D. Little (1999) *India : Macro Economics and Political Economy, 1964-1991*, Oxford University Press, New Delhi.
12. Kaushik Basu (ed) (2004), *India's Emerging Economy*, Oxford University Press, New Delhi.
13. Bhattacharya, Aditya and Marzit, Sugata(Eds)(2004),*Globalization and Developing Economies; Theory and Evidence*, Manohar, New Delhi
14. Jha Raghendra (Ed)(2003); *Indian Economic Reforms*, Hampshire, U.K.
15. Chug, Ram L. and Uppal.J.S. (1985) *Black Income in India*. Tata McGraw Hill, New Delhi.
16. Aravind Panagariya(2004) *India in the 1980s and 1990s: Triumph of Reforms*, IMF Working Paper, W/P 04/43, Washington DC.
17. Jagadisg Bhagwati, Aravind Panagariya(2012), *Reforms and Economic Transformation in India*,Oxford University Press.
18. Montek S Ahluwalia (2002), *Economic Reforms in India Since 1991: Has gradualism worked?* Journal of Economic perspective, Vol.16, No.3, PP6788
19. Ashim Goyal(Ed), *The Oxford Hand book of the Indian Economy in the 21st century: Understanding the Inherent Dynamism*, Oxford University Press, New Delhi.
20. Gopalji and Suman Bhakri(2013), *Indian Economy, Performance and Policies*, Pearson, New Delhi.

21. Agarwal A N (2013), *Indian Economy: Problems of Development and Planning*, Vikas Publishing House, New Delhi.
22. Kapila Uma(2013), *Two Decades of Economic Reforms in India: Towards Faster, Sustainable and more Inclusive growth*(3rd edition), Academic Foundation, New Delhi.
23. Mahendra K Premi (2009), *India's Changing Population Profile*, National Book Trust, New Delhi.
24. Sivaramakrishna K C, Amitabh Kundu, *Hand book of Urbanisation*, Oxford University Press, New Delhi.
25. Radhakrishnan R, Shovan Roy(Ed), *Hand book of Poverty in India*, Oxford University Press, New Delhi.
26. Byres TJ (Ed) (1998), *The Indian Economy: Major Debates since Independence*, Oxford University Press, New Delhi.
27. Dipak Mazumdar, Sandip Sarkar(2008), *Globalization, Labour Markets and Inequality in India*, International Development Research Centre.

EC 214: QUANTITATIVE METHODS FOR ECONOMICS

(Hours per semester: 110

Hours per week: 6)

Objectives

The key objective of this paper is to provide the students an insight into the importance of quantitative methods in Economics and enable them to introduce and apply these techniques in finding solutions to economic problems. The course also aims at: (1) familiarizing the students the basic quantitative techniques used in economic analysis, (2) enabling the students in making use of a quantitative approach in formulating economic problems, and (3) inculcating analytical ability in finding solutions to mathematically formulated economic problems.

Course Contents

Module I Matrix Algebra (25 hours)

Evaluation of higher order determinant- Minors and Cofactors- Laplace method-Bordered Hessian determinant- Solution of simultaneous equations - Cramer's rule and inverse method - Characteristic equations and Eigen values- Cayley Hamilton theorem - Quadratic forms- Leontiff open input- output model.

Module II Optimisation Techniques (25 hours)

Optimisation of economic functions- Optimisation with equality constraints -Lagrange method - Optimisation with inequality constraints - Linear programming -Characteristics of Linear Programming Problem(LPP) - Formulation of LPP - Solution of LPP using Simplex method – Duality - Uses of dual LPP and Shadow prices.

Module III Differential and Difference Equations (30 hours)

Concept of Differential equations - First order linear differential equations and their solutions - Concept of difference equations - First order linear difference equations and their solutions - Uses of differential and difference equations in economics-Dynamic stability-Lagged income determination model, Harrod and Cobweb models.

Module IV Statistical Methods (30 hours)

Theoretical Probability Distributions- Binomial, Poisson and Normal Distribution- Tests of Normality-Histogram, P-P plot, Q-Q plot, Jarque – Bera test -Methods of Sampling - Parameters and statistics - Sampling distribution of mean - Standard error- Z, t, F, and chi- square distributions –

Hypothesis :meaning and types - Type I and Type II errors - Confidence interval - Procedure of testing hypotheses - Z, t, F, and chi-square tests.

Basic Reading List

Module - I, II and III

1. Allen, R.G.D. (2008). *Mathematical Analysis for Economists*. New Delhi: AITBS Publishers.
2. Yamane, Taro. (2012). *Mathematics for Economists: An Elementary Survey*. New Delhi: Prentice Hall of India.

Module – IV

1. Gupta, S.P. (2014). *Statistical Methods*. New Delhi: Sulthan Chand and Sons.
2. Olive, David. (2014). *Statistical Theory and Inference*. Switzerland: Springer International Publishing.

Additional Reading

1. Baumol, V.J. (1997). *Economic Theory and Operations Analysis*. New Delhi: Prentice Hall of India.
2. Chiang, A.C. & Wainwright, K. (2005). *Fundamental Methods of Mathematical Economics - 4th Edition*. New Delhi: McGraw-Hill.
3. Chiang, A.C. (1984). *Fundamentals of Mathematical Economics*. New Delhi: McGraw Hill.
4. Dowling, E.T. (2011). *Introduction to mathematical Economics, Schaum's Outline Series*. New Delhi: McGraw Hill.
5. Gupta, S.C. (2012). *Fundamentals of Statistics*. Mumbai: Himalaya Publishing House.
6. Hoy, Michael., John, Livernois., Chris, McKenna., Ray, Rees. &Thanasis, Stengos. (2012). *Mathematics for Economics, Third Edition*. PHI Learning.
7. Monga, G.S. (2001). *Mathematics and Statistics for Economics*. New Delhi: Vikas Publishing House.
8. Nagaraja, H.N., Sen, P.K. & Morrison, D.F. (2012). *Statistical Theory and Applications*. New York: Springer.
9. Thod, C.H. (2002). *Testing for Normality*. New York: Marcel Dekker Inc.

CORE PAPERS IN SECOND SEMESTER

EC 221: MICRO ECONOMICS - II

(Hours per semester: 120

Hours per week: 7)

Objectives

This course is intended to give insights into developments in the areas of theories of distribution, general equilibrium, welfare economics, uncertainty and informational asymmetry and behavioral economics.

Course Contents

Module I: Distribution (25 hours)

Marginal productivity theory – adding up problem - Euler’s theorem - technical progress and factor shares: Hicks & Harrod.

Macro theories of distribution - Ricardo’s dynamic model - Marxian theory of distribution - degree of monopoly theory - Neo-Keynesian model.

Module II: General Equilibrium (20 hours)

General Vs. partial equilibrium - Walrasian system - tatonnement process - existence, uniqueness and stability of an equilibrium - graphical treatment of general equilibrium 2×2×2 model.

Module III: Welfare Economics (25 hours)

Concerns of welfare economics - role of value judgments – Bergson’s social welfare function -Arrow’s impossibility theorem - the theory of second best – Scitovsky’s double compensation criterion - Rawl’s theory of justice- A.K Sen’s social welfare function – equity-efficiency trade-off.

Module IV: Economics of Information (20 hours)

Economics of search - search cost - search and advertizing - asymmetric information and market for lemons - adverse selection - market signalling - moral hazard – principal-agent problem.

Module V: Behavioral Economics and Bounded Rationality (30 hours)

Classical and neo-Classical views of human nature - behavioral economics – framing - anchoring effect – bracketing - uncertainty – law of small numbers - asset integration and loss aversion -role of time and emotions in economic decisions - role of constraints and information -

satisficing – ameliorating - path dependence - bounded rationality - altruism and common good- strategic interaction and social norms .

Reading List

Module I

1. Krugman, Paul & Wells, Robin (2005), *Micro Economics*, Worth Publishers, New York (P-290-297)
2. Costa Da G.C (2001), *Value and Distribution* (P-213-246,423-435)
3. Mandal, RK (2007), *Micro Economic Theory*, Atlantic Publishers (P) Ltd (P-288-297)

Module II

1. Costa Da G.C (2001), *Value and Distribution* (P-247-249,264-266)
2. Koutsiyannis, A (), *Modern Microeconomics*, Macmillan Press, London (P-486-488,489-491,495-504,510-515)
3. Pindyck, Robert.S, Rubinfeld, Daniel, L, Mehta, Premal, L (6th edition), *Micro Economics* (P. 450-460)
4. Mandal, RK (2007), *Micro Economic Theory*, Atlantic Publishers (P) Ltd, Noida (P-311-323)
5. Basu.K, Pattanaik.P, & Suzumura(Ed)(2001), *Choice ,Welfare and Development*,clarendon Press, Oxford University Press (P.32-64)
6. Snyder, Christpher &Nicholson, Walter (2012), *Microeconomic Theory-Basic Principles and Extensions*, Cengage learning (P-409-428)

Module III

1. Maddala, G.S, Miller Ellen (2004), *Micro economics*, Tata Mc Graw Hill (P-519-522)
2. Salvatore, Dominick (2009) *Principles of Microeconomics* (P-502-509)
3. Cowell Frank, A (2005), *Microeconomics, Principles and Analysis*, Oxford University Press (P-225-227)
4. Yew-Kwang Ng (2004), *Welfare Economics, Towards a more complete analysis*, Palgrave Macmillan (P-1-18, 34, 92-98)
5. Basu.K, Pattanaik.P, & Suzumura(Ed)(2001), *Choice ,Welfare and Development*,clarendon Press, Oxford University Press

6. Farrell M.J(Ed) (1973), *Readings in Welfare Economics*, The Mac Millan Press, London (P-144-166)
7. Feldman, Allan, M, & Serrano, Roberto (2nd Edn), *Welfare Economics and Social Choice Theory*, Springer
8. Snyder, Christopher & Nicholson, Walter (2012), *Microeconomic Theory-Basic Principles and Extensions*, Cengage learning (P-428-446)

Module IV

1. Pindyck, Robert.S, Rubinfeld, Daniel, L, Mehta, Premlal, L (6th edition), *Micro Economics* (P. 511-525,567-585)
2. Salvatore, Dominick (2009) *Principles of Microeconomics* (P-545-560)
3. Hubbard, Glen.R, Patrick, Anthony, Brien, O, *Microeconomics* (P-536-545)
4. Varian H.R (2003), *Intermediate Micro Economics*, East – West Press Edition (P-667-688)
5. Snyder, Christopher & Nicholson, Walter (2012), *Microeconomic Theory-Basic Principles and Extensions*, Cengage learning (P-579-618)

Module V

1. Pindyck, Robert.S, Rubinfeld, Daniel, L, Mehta, Premlal, L (6th edition), *Micro Economics* (P. 561-564)
2. Goodwin, Harris, Roach & Torras (3rd edn), “*Microeconomics in context*, M.E Sharpe. Inc, USA (visit www.gdae.org/micro)
3. Varian H.R (2013), *Intermediate Micro Economics*, East – West Press Edition (566-581)
4. Koutsyiannis, A (2013), *Modern Microeconomics*, Macmillan Press, London (P-258,389-390)

EC 222: ECONOMICS OF SOCIAL SECTOR AND ENVIRONMENT

(Hours per semester: 110

Hours per week: 6)

Objectives

This course is designed to enable students to: (1) Understand and apply the key economic concepts in the context of social sectors like education, environment and healthcare, (2) Appreciate how economic factors contribute to the development and implementation of educational policies, (3) Identify the major theories governing the development of human resources, school improvement and development, (4) Recognize the important linkages between the environment and economics, (5) Be aware of the key environmental issues around the globe, and (6) Understand approaches to identify and value costs and outcomes to include in economic evaluation of the environment through benefit cost analysis.

Course Contents

Module 1: Economics of Education (20 hours)

Human Capital – Components of Human Capital – Education as an instrument for economic Growth – Demand for Education – Supply of Education – Determinants of demand for Education – Costs of Education - Private Costs and Social Costs- Benefits of Education – Direct, Indirect and Social Benefits – Wastage and Stagnation in Education – Causes and Measures- Manpower Planning-Meaning and Techniques of Forecasting.

Module 2: Economics of Health (20 hours)

Nature and Scope of Health Economics – Health Dimensions of Development – Determinants of Health – Economic Dimensions of Healthcare – Demand for and Supply of Healthcare – Healthcare Financing – Inequalities of Health – Class and Gender Perspectives – Healthcare Sector in India-Health Insurance Schemes in India-RSBY,ESIS,AABY, JBY.

Module 3: Economics of Environment and Environmental Valuation (25 hours)

Environmental Economics – Meaning and Significance – Interlinkage between economy and Environment – Material Balance Model – Law of Entropy – Environmental Kuznets' Curve

Environmental Valuation – Use Values, Non-use Values, Option Values – Approaches to Environmental Valuation – Direct Methods – Contingent Valuation Method, Trade off Games Method, Costless Choice Method, Delphi Method – Indirect Methods – Revealed Preference

Methods – Travel Cost Method, Hedonic Pricing Method, Preventive Expenditure Method, Surrogate Market Approach, Wage Differential Approach– Cost Based Methods and Other methods of Valuation – Cost Benefit Analysis.

Module 4: Environmental Policies and Issues (25 hours)

Environmental Externalities – Design of Environmental Policy – Quantity Based Instruments – Market based Instruments – Pigouvian tax and Subsidy Approach – Non-Market Instruments – Command and Control – Mixed Instruments – Marketable permits – Tradeable Pollution Permits -Bargaining Solution – Coase Theorem – Informal Regulation – Collective Action – Grass Root Movements (Chipko Movement, Save Silent Valley Movement, Narmada Bachao Andolan, Appiko Movement)– Monitoring and Enforcement – The New Model of Pollution Control – Major Environmental Policies and Legislations in India.

Global Environmental Issues – Climate Change Problems, Global Warming, Bio Diversity Loss, Acid Rain, Deforestation, Environmental Pollution.

Module 5: Economics of Natural Resource Management (20 hours)

Natural Resources – Resource Taxonomy – Theories of Optimum Use of Exhaustible and Renewable Resources – Common Property Resource Management – Tragedy of Commons.

Environment Development Trade off – Sustainable Development – Indicators of Sustainable Development – Equity and Sustainable Development – Environment and Trade in the WTO Regime – Environment and System of National Accounts – Green GDP.

Reading List

Module 1

1. Environmental Education in India (2002) Association of Indian Universities, New Delhi.
2. Schultz., T.W. (1971) Investment in human Capital, Free Press, New York
3. Joy A. Palmer, 1998, Environmental Education in 21st century, Routledge, London.
4. Kolstad, D. Charles (2010), Environmental Economics, Oxford University Press.
5. Cohn E. and T. Gaske (1989), Economics of Education, Pergamon Press, London.
6. McMohan, W.W. (1999), Education and Development: Measuring the Social Benefits, Oxford University Press.
7. Becker G.S. (1974), Human Capital (2nd Edition), National Bureau of Economic Research, New York.

8. McMohan, W.W. (1999), Education and Development: Measuring the Social Benefits, Oxford University Press, Oxford.
9. Padmanabhan, C.B. (1984), Financial Management in Education, Select Books, New Delhi.
10. Tilak, J.B.G. (1994), Education for Development in Asia, Sage Publications, New Delhi.
11. Vaizey, J. (1962), Economics of Education, Faber and Faber, London.
12. Woodhall, M. (1992), Cost Benefit Analysis in Educational Planning, UNESCO, Paris.

Module 2

1. Klarman H. E. (1965), The Economics of Health, Columbia University Press. New York.
2. Olsen, Jan Abel (2010); Principles in Health Economics and Policy, Oxford University Press
3. Berman P. and M.E. Khan (1993), Paying for India's Health Care, Sage publications, New Delhi
4. Anand, N.K. & Shikha Goel (2008); Health Economics, AITBS Publishers, New Delhi.
5. Folland, Sherman, Allen C. Goodman and Miron Stano (2007), The Economics of Health and Health Care, Pearson Prentice Hall.
6. Baru, R.V. (1998), Private Health Care in India: Social Characteristics and Trends, Sage Publications, New Delhi.
7. Berman, P. and M.E. Khan (1993), Paying for India's Health Care, Sage Publications, New Delhi.
8. Panchamukhi, P.R. (1980), Economics of Health: A Trend Report in ICSSR, A Survey of Research in Economics, Vol. VI, Infrastructure, Allied, Delhi.
9. World Bank (1993), The World Development Report, (1993): Investing in Health, Oxford University Press, New York.
10. Bhattacharya, Jay, Timothy Hyde, and Peter Tu. *Health Economics*. Basingstoke: Palgrave Macmillan, 2014. Print.

Module 3

1. M. Karpagam (1999); Environmental Economics, Sterling Publishers.
2. Hanley N., J.F. Shogern and B. White (1997), Environmental Economics in Theory and Practice, Macmillan.

3. Smith V. Kerry (1996), Estimating Economic values for Nature: Methods for Non Market Valuation, Edward Elgar, Cheltenham, UK Case Studies (India)
4. Hussen, A M (2005), Principles of Environmental Economics, Routledge, London & New York.
5. Eugene, T. (2004), “Environmental Economics” B.K. Offset Press, New Delhi.
6. Hanley, N. (1997), Environmental Economics in Theory and Practice, Macmillan, London.
7. Mitchell, R.C. and R.T. Carson (1993), Using Surveys to Value Public Goods: Resources for the Future, Washington, D.C.

Module 4

1. Kolstad, D. Charles (2010), Environmental Economics, Oxford University Press.
2. Bhattacharya N. Rabindra (ed.) (2001); “Environmental Economics An Indian Perspective”, Oxford University Press.
3. Eugene, T. (2004), “Environmental Economics” B.K. Offset Press, New Delhi.
4. Hanley N., J.F. Shogern and B. White (1997), Environmental Economics in Theory and Practice, Macmillan.
5. Hoel, M. (1997), ‘International Coordination of Environmental Policies’ in New Dimensions in the Economic Theory of Environment, Carrao Carlo and Domenico Siniscalco (Eds.), Cambridge University Press, Cambridge.
6. Larsen, B. and A. Shaw (1994), Global Tradable Carbon Permits, Participation Incentives, and Transfers, Oxford Economic Papers, Vol. 46.
7. Ostrom, E. (1990), Governing the Commons: The Evolution of Institutions for Collective Actions, Cambridge University Press, Cambridge
8. Karan P.P. (1994), “Environmental Movements in India”, Geographical Review, American Geographical Society.
9. www.unep.org

Module 5

1. Sankar, U (Ed.) (2001), Environmental Economics, Oxford University Press, New Delhi.
2. Bhattacharya; Environmental Economics-OUP, 2002.
3. M. Karpagam (1999); Environmental Economics, Sterling Publishers.
4. Rangarajan, Mahesh (Ed.) (2007); Environmental Issues in India A Reader, Pearson.

5. Kolstad, D. Charles (2010), Environmental Economics, Oxford University Press.
6. Hanley N., J.F. Shogern and B. White (1997), Environmental Economics in Theory and Practice, Macmillan.
7. Tom Tietenberg- Environmental and Natural Resource Economics- Addison Wesley publishers- seventh edition
8. David Anderson, Environmental Economics and Natural resource management- Routledge publishers- fourth edition
9. David W Pearce, R Kerry Turner- Economics of Natural Resources and Environment- John Hopkins University Press
10. John Blewitt- Understanding Sustainable Development- Earth scan publishers
11. Michael D Kaplowitz- Property rights, Economics and Environment- Volume 5- Routledge publishers
12. Thomas Sterner- Policy instruments for Environmental and Natural resource management- Routledge publishers

EC 223: INDIAN ECONOMIC POLICY - II

**(Hours per semester: 110
Hours per week: 6)**

Objectives

The objectives of this course are: (1) to introduce the basic concepts of economics to the students so as to enable them for further learning in Indian and Kerala Economy, (2) to equip the students with the basic idea for further learning, and (3) to help them to analyze the sectoral development that has taken place India as well as in Kerala economy.

Course Contents

Module -1 Changing Structure of Labour Market (20 hours)

Structural Changes in India's Labour market – Challenges and Reforms, Labour market informalisation , Feminization and Gender inequality –Its Impact and effects, Job insecurity, New Industrial Policy and changing role of Trade Union, Child labour, Reforms in Labour laws.

Module -2 Financial Sector in India (24 hours)

Money and Capital markets - Growth of Banking Sector in India – RBI and Monetary Management – Internal and external balances – Money supply, sources and measurement- Modern functions of commercial banks – Recent initiatives in banking sector (Mergers, foreign banks, NPA, Digitalization, Privatization) - Monetary and Financial Sector Reforms - Financial Inclusion

Module – 3 External Sector in India (24 hours)

External sector reforms since 1991- Recent developments in India's external sector – Current account deficit, exchange rate policy , foreign trade and capital flows, EXIM policy, Role of FDI in India's economic development - recent changes in the structure , composition and direction of India's foreign trade – recent policy changes and India's export.

Module 4 Financial and Social Sector –Kerala Economy (18 hours)

GSDP – Recent trends and pattern - Public expenditure in Kerala – Composition and trends – Financial issues – Social Sector in Kerala – Health and Education.

Module 5 Sectoral Issues of Kerala Economy (24 hours)

Changes in the cropping and land use pattern, Problems faced by Agriculture sector - Industrial backwardness in the State – Educated Unemployment – urbanization - Development of

IT – Tourism - Impact of Migration and remittances on Kerala economy - In-migrant workers in Kerala.

Basic Reading List

1. Kapila Uma (ed) (2016) *Indian Economy Since Independence: A Comprehensive and Critical Analysis of India's Economy 1947-2016*, Academic Foundation, New Delhi
2. Ruddar Dutt and Sundaram (2016): *Indian Economy*, S Chand and Company, New Delhi
3. J K Mishra and V K Puri (2014): *Indian Economy: The Development Experience*, Himalaya Publishing House, Mumbai
4. B A Prakash (ed) (2012) *The Indian Economy Since 1991: Economic Reforms and Performance*, Pearson, New Delhi
5. India 2016, Publication Division, New Delhi
6. Government of India, *Economic Survey* (Annual Issues), Ministry of Finance, New Delhi, Accessible via URL-<http://indiabudget.nic.in/>
7. State Planning Board, *Kerala Economic Review (Annual Issues)*.

Basic Reading List (Kerala Economy)

1. Centre for Development Studies, *Poverty Unemployment and development policy*, Orient Longman, Bombay.
2. B.A.Prakash (Ed) (1994). *Kerala's Economy: Performance, Problems Prospects*, Sage Publications, New Delhi.
3. B.A.Prakash (Ed.) (2004) *Kerala's Economic Development: Performance and Problems in the Post-Liberalisation period*. Sage Publications, New Delhi.
4. M..Oommen (Ed) (1999) *Rethinking Development: Kerala's Development Experience*.
5. B.A.Prakash (Ed) 1999, *Kerala's Economic Development: Issues and Problems*, Sage Publications. New Delhi.
6. P.P.Pillai (1994) *Kerala Economy: Four Decades of Development*, John Mathai Foundation Trichur.
7. M.A.Oomen 1993, *Essays on Kerala's Economy*, Oxford and IBH.
8. K.C.Zachariah, K.P.Kannan and S.IrudayaRajan (Ed) 2002. *Kerala's Gulf Connection* C.D.S, Thiruvananthapuram.

9. Mathew Kurian and Raju John (Ed) (2014) *Kerala Economy and its Emerging Issues*, National Book Stall, Thiruvananthapuram
10. Asokan A, Mary Oommen and Priyesh C A (Ed) (2016) *Kerala Economy in Retrospect and Prospect*, Kerala Economic Association, Thiruvananthapuram
11. Zachariah K.C. and S. IrudayaRajan (2012):*Kerala's Demographic Future:Issues and Policy Options*, Academic Foundation, New Delhi
12. Jerry Alwin(2014):*Recent Trends in Kerala State Finances*, Serials Publications, New Delhi
13. *Kerala Perspective Plan 2030*, Volume I to IV, Kerala State Planning Board
14. Siddharth Sastri (1992) , *Financing of State Five Year Plan in India*, Mittal Publications.

Additional Reading List

1. National council of Applied Economic Research (1962), *Techno Economic Survey of Kerala*, NCAER, New Delhi.
2. E.T.Mathew 1997, *Employment and Unemployment in Kerala* , Sage Publications, NewDelhi
3. K.K.George, 1993, *Limits to Kerala Model of Development*, C.D.S Thiruvanathapuram.
4. K.C. Zachariah ET Mathew and IrudayaRajan, (2003), *Dynamics of Migration in Kerala*, Orient Longman, New Delhi.
5. Planning Commission (2008), *Kerala Development Report*, Academic Foundation, New Delhi.
6. B A Prakash& V R Prabhakaran Nair(ed) (2008) *Kerala's Development Issues in the New Millenium*, Serials Publications, New Delhi
7. B N Ghosh&Padmaja D Namboothiri (ed)(2009) *The Economy of Kerala: Yesterday,Today and Tommorow*, Serial Publications,New Delhi
8. State Planning Board ,*Economic Review*, Various Years, , Thiruvananthapuram
9. Tapas K Sen(2012)*Recent Developments in Kerala State Finances*,WP 449,CDS
10. Parayil Govindan (2000) (ed.), *Kerala : The Development Experience – Reflections on Sustainability and Replicability*, Zed Books, London
11. R. Sthanumoorthy (ed) (2006) *Kerala Economy: Achievements and Challenges*, ICFAI University Press, New Delhi.

12. Rajasenan, D. and Gerard De Groot (ed) (2005), *Kerala Economy : Trajectories, Challenges and Implications*, CUSAT, Kochi.
13. K Rajan(ed)(2009):*Kerala Economy:Trends During the Post Reform Period* ,Serials Publication,New Delhi
14. Zachariah K.C. and S. IrudayaRajan(2012):*Kerala`s Gulf Connection 1998-2011:Economic and Social Impacts of Migration*,OrientBlackswan,New Delhi
15. Government Kerala (2001) White paper on State Finance, Govt of Kerala, Thiruvananthapuram.
16. Government Kerala (2016) White paper on State Finance, Govt of Kerala, Thiruvananthapuram.
17. Govt of Kerala: *Report of Public Expenditure Review Committee, Various Years*
18. NCAER (2001) *South India; Human Development Report*, Oxford University Press, New Delhi.
19. A.K.G Centre for Research and studies (1994) International Congress on Kerala Studies, Abstracts of paper, 5 volumes AKG Centre, Thiruvananthapuram.
20. Institute of Social Sciences (1996) International Conference on Kerala's Development Experience, Abstracts of papers, Institute of social sciences New Delhi.
21. Mahendradev S (2010), *Inclusive Growth in India*, Oxford University Press , New Delhi
22. Bhavani T A, Bhanumurthy N R,(2011), *Financial Access in Post Reform India*, Oxford University Press , New Delh
23. Mohan Rakesh(Eds) (2011), *Growth with Financial Stability*, Oxford University Press , New Delhi
24. MihirRakshit (2010), *Money and Finance in the Indian Economy*, Oxford University Press, New Delhi
25. Indian Institute of Bank and finance; *Bank Financial Management*, Mac Millan Publishers(2010)
26. Prasanna Chandra (9th edition) ,*Financial Management Theory and Practice*, MC Graw Hill Education.
27. Manoranjan and Sharma(2007), *India`s Transforming Financial Sector*, Atlantis
28. Benson Kunjukunju,*Commercial banking in India- Growth,Challanges and Strategies*

29. K.N.Harilal, K.J.Joseph(2003), Stagnation and Revival of Kerala Economy: An Open Economy Perspective, EPW, Vol.38, No.23(Jun7-13)PP -2286-2294.
30. Thomas Isaac TM, Michael Tharakan PK(1995), *Kerala Emerging Persepective: Overview of International Congress on Kerala Studies* ;Social Scientist, Vol.23, No,13, (Jan – Mar.1995), PP3-36.
31. Suraj B Gupta, *Monetary Economics*, S.Chand and Company, New Delhi.

EC 224: ECONOMETRICS AND RESEARCH METHODOLOGY

(Hours per semester: 110

Hours per week: 6)

Objectives

The objectives of this course are: (1) to create an understanding among the students on basic econometric methodology, (2) to train the students in applying economic theories to real economic data by means of empirical models, and (3) to give a comprehensive idea on the process of doing research in economics.

Course Contents

Module I: Introduction to Econometrics (25 hours)

Meaning, scope and methodology of Econometrics - Sample Regression Function and Population Regression Function - Simple linear Regression Model – Assumptions, Estimation through Ordinary Least Squares (OLS) Approach - Gauss Markov Theorem - Multiple Regression Model - Testing the Significance of Regression – t, Analysis of variance (ANOVA), F and the concept of R^2 and adjusted R^2 .

Module II: Violation of the CLRM Assumptions (20 hours)

Auto-correlation, Heteroscedasticity, Multicollinearity, Specification Errors, Errors of Measurement - Nature, Consequences, Tests and Remedial measures.

Module III: Dummy Variables Regression Models (20 hours)

Dummy Variable Technique and its Applications - Comparing two regressions, interaction effects, seasonal analysis, piece-wise linear regression.

Module IV: Introduction to Time series Econometrics (20 hours)

Basic Concepts: Stationarity and Non Stationarity – Random Walk Models – Testing Stationarity - Unit Root- Integrated Process - Basic Concepts of ARMA and ARIMA Process.

Module V: Introduction to Research Methodology (25 hours)

Meaning, purpose and scope of Social Science Research - Types of Research - Stages of Research Process - Formulation of research problem, Research Design Setting, Theoretical Frame, Review of Literature, Objectives and Hypothesi, Methods of Data Collection, Analysis of Data, Hypothesis Testing and drawing conclusions, Report Writing and Lay out of the Research Report.

Reading List

Modules I, II, III & IV

1. Gujarathi , D.&Sangeetha, N. (2007). Basic Econometrics (4thed) New Delhi: McGraw Hill
2. Koutsoyianis, A. (1977). Theory of Econometrics (2nded). London .The Macmillian Press Ltd.

Modules V

1. Kothari, C. R. (2004). Research Methodology Methods & Techniques, New Age International Publishers, Delhi.
2. Gerald Guthrie(2012),Basic Research Methods, Sage, New Delhi.
3. Majumdar, P.K. (2011), Research Methods in Social Sciences, Viva Books, New Delh
4. Rowena Murray(2010), How to Write a Thesis, Tata McGraw Hill, New Delhi.

Additional Reading List

1. Cochran, W. G. (1999).Sampling Techniques, John Wiley & Sons (Asia) Ltd.
2. Greene W. H. (1997). Econometric Analysis, New Delhi, Pearson.
3. Johnston J. (1991).Econometric Methods, NewYork, McGraw Hill.
4. Intriligator M. D. (1991) Econometric Methods, Techniques and Applications, Prentice Hall, Englewood Cliffs, New Jersey.

CORE PAPERS IN THIRD SEMESTER

EC 231: MACRO ECONOMICS - I

(Hours per semester: 120

Hours per week: 7)

Objectives

Macro Economics paper has two parts, spread across third and fourth semesters. In the third semester, the important areas covered under Macro Economics I are development of macro economics after Keynesian revolution including Neo-classical and Keynesian synthesis, behaviour foundations of macro economics, theoretical foundations of demand and supply of money and macroeconomic model in an open economy context. The important objective of the paper is that the students should be able to understand the structural underpinnings of theoretical development of macroeconomic thoughts and their application.

Course Contents

Module 1: Introduction (5 hours)

A brief introduction to competing schools of macroeconomic thought-Market clearing and non market clearing approaches to macroeconomics-Determination of output, employment and price level in Classical and Keynesian models

Module 2: Neo-classical and Keynesian Synthesis (25 hours)

The ISLM model- Keynesian and Neo-Classical Version- Extensions of ISLM model with govt sector- Relative efficiency of fiscal and monetary policies- ISLM model with labour market and flexible prices- Three Sector Macro Model

Module 3 Behavioral Foundations of Macro economics (30 hours)

Consumption function: Current Income Theories (views of Keynes, Kuznet's consumption puzzle, Drift hypothesis of Smithies and views of Duesenberry)- Fischer's Intertemporal Choice model- Normal Income Theories (views of Friedman and Modigliani and others)- Endogenous Income Theory – Robert Hall Random Walk Hypothesis- David Laibson Behavioral Hypothesis- Empirical Evidence

Investment function: Neo-classical theory of investment – MEC and Keynesian theory of investment - Cost of capital and MEC- Accelerator theory of investment (simple and flexible)- Capital Stock Adjustment Principle –Interaction of Accelerator and Multiplier – Profit theory of

investment- Financial theory of investment – Tobin’s q ratio- Modigliani-Miller theory - Investment under Uncertainty, Asymmetric Information and Irreversible Investment.

Module 4: Demand and Supply of Money (30 hours)

Demand for money: Keynesian view- Post Keynesian approaches of demand for money- Patinkin’s Real balance effect- Approaches of Tobin, Baumol and Friedman- Modern monetary theory of Randall and Wray

Supply of money: Financial Intermediation- Mechanistic model of bank deposit determination- Behavioral model of money determination- Money Multiplier and its determination- Demand determined view of money supply process- Methods of monetary control- Interest elasticity of money supply – central bank’s policy alternatives- Inside money and Outside money- Money supply determination in an open economy- Asset market equilibrium – Fisher effect-Disequilibrium money and Buffer stock models

Module 5: Macro economics of an open economy (30 hours)

Balance of payment and Keynesian analysis - Internal and External Equilibrium- Money and Capital Flows and Equilibrium in an Open Economy– Mundel-Fleming model- Fixed and Flexible Exchange Rate with Capital Mobility –Monetary and fiscal policy under fixed and flexible exchange of capital mobility- the Impossible Trinity -Monetary Approach to Balance of Payment

Basic Reading List

1. Mankiw, G. (2011), Macro Economics, Worth Publishers, New York
2. Rudiger Dornbusch, Stanley Fischer and Richard Startz (2006), Macroeconomics, McGraw-Hill.
3. Levacic, R. and A. Rebman (2006), Macro Economics, Mac Millen Press Ltd.
4. Froyen, R.(2008). Macroeconomics, Pearson India
5. Snowdon, B. H. Vane and P. Wynarezyk (2002), A Modem Guide to Macro Economics: An Introduction to Competing Schools of Thought, Edward Elgar.
6. Kamran Dadkhah (2010), Evolution of Macro Economic Theory and Policy, Springer
7. David Romar (2011), Advanced Macro Economics, McGra-Hill, 4th Edition
8. Andre B.Abel and Ben S. Bernanke (2010), Macro Economics, 4th Edition, Pearson
9. G.K.Shaw, Michael J, Mc Croshie and David Greenway, Macro economics, Theory and Practice, Blackwell.

Additional Reading List

Module 1

- 1) Nattrass, Nicholi and Vishaka Varma (2014) *Macroeconomics Simplified: Understanding Keynesian and Neo Classical Macroeconomic systems*, Sage Publications India, New Delhi
- 2) Branson W.A (1989), *Macro Economic Theory and Policy*, 3rd edition, Harper and Row, New Delhi.
- 3) Leteris Tsoulfidis (2010), *Competing Schools of Economic Thought*, Springer

Module 2

1. Hicks J.R (1937) *Mr Keynes and the Classics: A Suggested Interpretations*, *Econometrica*, April
2. Nattrass, Nicholi and Vishaka Varma (2014) *Macroeconomics Simplified: Understanding Keynesian and Neo Classical Macroeconomic systems*, Sage Publications India, New Delhi
3. Branson W.A (2005), *Macro Economic Theory and Policy*, 3rd edition, Harper and Row, New Delhi

Module 3

1. Garner Ackley (1989), *Macroeconomics Theory and Policy*, Collier Macmillian
2. Edward Shapiro (2001 Reprint), *Macroeconomic Analysis*, Galgotia Publications Ltd, New Delhi
3. Fred R. Glahe (1985), *Macro Economics: Theory and Policy*, Harcourt College Pub
4. A.J. Westaway and T.G.Weyman Johnes (1978), *Macro Economics, Theory, Evidence and Policy*, Longman
5. M.Farrel (1966), *New Theories of Consumption Function*, in *Readings in Macro Economics* by Mullar (Ed.) Holt,Rinehart & Winston of Canada Ltd

Module 4

1. Laidler D.E.W (1977), *Demand for Money: Theory and Evidence*, Dum-Don Valley, New York
2. McKinen, G,E (1978), *Money, The Price Level and Interest Rates*, Prentice Hall of India, New Delhi

3. Friedman, M (1956), *Studies in Quantity Theory of Money*, The University of Chicago Press, Chicago
4. Éric Tymoigne and L. Randall Wray, "Modern Money Theory 101: A Reply to Critics," Levy Economics Institute of Bard College, Working Paper No. 778 (November 2013).
5. Scott T. Fullwiler, "Modern Monetary Theory—A Primer on the Operational Realities of the Monetary System," Wartburg College; Bard College - The Levy Economics Institute (August 30, 2010)
6. Wray, L. Randall (2000), The Neo-Chartalist Approach to Money (Working Paper No. 10), UMKC Center for Full Employment and Price Stability
7. Wray, L. Randall (December 2010), Money (Working Paper No. 647), Levy Economics Institute of Bard College

Module 5

1. Gordon R and S.G.Harris (1988), *Macroeconomics*, Addison Wesley, Massachusetts
2. Mankiw, N.G and D.Romar (Eds.) (1991), *New Keynesian Economics*, (2 Vols.) MIT Press, Cambridge
3. D.Fisher (1978), *Monetary Theory and the Demand for Money*, Martin Robertson
4. Dornbush R (1980), *Open Economy Macro Economics*, Basic Books
5. Frankel J and Johnson H.G (1976), *Monetary Approach to Balance of Payments*

EC 232: INTERNATIONAL ECONOMICS – I

(Hours per semester: 110

Hours per week: 6)

Objectives

This course offers an introduction to the main theoretical tools and policies that are central to the study of international trade, but with an emphasis on application to the trade flows, trading blocks and international macroeconomic events that characterize the global economy today. The ability to use economic analysis to reach a deeper understanding of international trade will be an important formative element for those who intend to develop careers in international business and management.

Course Contents

Module I: New Trade Theories: Salient Features (30 hours)

Neo-technological trade theories- Kravis theory of Availability, Linder's theory of Volume of Trade and Demand pattern, Posner's Imitation gap, Vernon's Product Cycle Theory. Intra-industry Trade Models- Krugman's Model (1979), Brander-Krugman Model (1983). Empirical work on Intra-industry trade-Strategic Trade Theory Models: Krugman's Model (1984), Brander and Spencer's Model (1985)-Neo –Heckscher –Ohlin Theory, Monopolistic Competition and International trade, Oligopoly and International trade.

Module II: Trade in Services (20 hours)

Emerging pattern of services trade- The scope and potential of Services trade in Developing Countries-GATS. Trade in Factors of Production and in Intermediate Good- Capital inflow and welfare- Emigration versus capital inflow- Fragmentation, Outsourcing and trade. Traded vs non-traded goods.

Module III: New Protectionism (20 hours)

The political economy of protectionism-Non-tariff barriers- Voluntary Export restraints and Import Expansion- Subsidies, Administered and Contingent Protection and fair trade: Dumping and Antidumping- Countervailing duty, Safeguard actions-Neo Protectionism.

Module IV: Economic Integration (20 hours)

Types of integration-Customs union: Partial and general equilibrium analysis-Trade creation and Trade diversion-Free trade areas, Emerging issues in SAFTA, ASEAN and EU.

Module V: Trade and Development. (20 hours)

Terms of Trade and UDCs - Theory of Immiserising growth-Dutch disease - Rybenzynski theorem – Technical progress and trade- Structural changes in trade and Economic development- Global and National scenario.

Basic Reading List

1. Oliver Cattaneo, International Trade in Services: New Trends and Opportunities for Developing Countries, World bank, Washington DC, 2010.
2. Feenstra Robert C (2004), Advanced International Trade- Theory and Evidence, Princeton University Press, Princeton
3. Carbaugh, R J (2008) - International Economics, (11th Edition) Thomson South Western, New Delhi
4. Salvatore, D (2008) - International Economics, (8th Edition). Wiley India, New Delhi
5. Krugman P R and Obsfeld M (2009) - International Economics- Theory and Policy, (8th Edition) Pearson, Dorling Kindersley (India) Pvt. Ltd, New Delhi
6. Soderston, B and Reed G.(1994) - International Economics, 3rd Edition, McMillan Press Ltd. London
7. Kindleberger, C P -International Economics, R.D. Irwin, Homewood
8. Bhagwati and Srinivasan (1983), Lectures on international trade, The MIT Press.
9. Bhagwati, J. N. (1987), International trade: Selected readings, Second Edition, MIT Press, Cambridge, Massachusetts
10. Appleyard D. R and Field A J (2014) -International Economics (8th Edition) McGraw Hill, New Delhi
11. Richard E Caver and Harry G Johnson, Readings in International economics
12. Grimwade Nigel (2001), International Trade, (Second Edition), Routledge, London
13. Grubel H G and Lloyd P J (1975), Intra-industry Trade, Macmillan, London.
14. Haberler G (1961), A Survey of International Trade Theory, International Finance Section, Department of Economics, Princeton University.
15. Reinert K A (2012), An Introduction to International Economics, Cambridge university Press, New York
16. Richard Baldwin and Charles Wyplosz (2004), The Economics of European Integration, McGraw Hill, New York.

17. Gandolfo, Giancarlo,(2016), International Finance and Open Economy Macro economics, Springer.
18. Gandolfo, Giancarlo,(2014), International Trade Theory and Policy, Springer.

Additional Readings List

1. J. N. Bhagwati, A. Panagariya and T.N. Srinivasan. Lectures on International Trade, MIT Press, 1998.
2. L. Rivera-Batiz and M. Olivia. International Trade: Theory, Strategies and Evidence, Ch.3, Oxford University Press, 2003.
3. Stolper W. F. & Samuelson P. A. (1941) – “Protection & Real Wages” – Review of Economic Studies, Vol. 9, No. 1, pp. 58 -73.
4. Kravis I. B. (1956) – “Availability & Other Influences on the Commodities Composition of Trade ”– Journal of Political Economy, Vol. LXIV, April, pp. 143 – 155.
5. Linder S. B. (1961) – An Essay on Trade & Transformation - New York, John Wiley .
6. Posner M. V. (1961) – “International trade & Technical change” – Oxford Economic Papers, Vol. 13, No. 3, pp. 323 - 341.
7. Vernon R. (1966) – “International Investment & International Trade in the Product Cycle” - Quarterly Journal of Economics, Vol. 80, No. 2, pp. 190 – 207.
8. Grubel H. & Lloyd P. (1975) – Intra – Industry Trade: The Theory and Measurement of International Trade in Differentiated Products- London, Macmillan.
9. Dixit A. K. & Stiglitz J. (1977) – “Monopolistic competition & Optimum Product Variety” – American Economic Review, Vol. 67, No. 3, pp. 297 -308.
10. Krugman Paul R. (1979) – “Increasing Returns, Monopolistic Competition and International Trade ”– Journal of International Economics, Vol. 9, No. 4, pp. 469 - 479.
11. Brander James & Krugman Paul (1983)- “A Reciprocal Dumping Model of International Trade ”– Journal Of International Economics, Vol. 16, Nos. 3 – 4, pp. 313 – 321.
12. Brander James (1981) –“ Intra-Industry Trade in Identical Commodities” – Journal of International Economics, Vol. 11, No. 1, pp. 1 – 14.
13. Krugman Paul R. (1984) – “Import Promotion as Export Promotion” in - Henry Kierzkowski (Ed) - Monopolistic Competition and International Trade – Oxford, Oxford University Press.

14. Brander James & Spencer Barbara (1985) – “Export subsidy and International Market share rivalry”– Journal of International Economics, Vol. 18, Nos. 1 – 2, pp. 83 – 100.
15. Krugman Paul R. & Obstfeld Maurice (2000) – International Economics – Theory & Policy - New Delhi, Addison –Wesley Longman, pp. 138 – 140.

EC 233: PUBLIC ECONOMICS

(Hours per semester: 110

Hours per week: 6)

Objectives

The important objective of this course is that the student should be able to understand the regulatory and developmental responsibilities of government in a democratic country like India. It covers the theoretical and empirical dimensions of public goods and public choice, fiscal instruments and fiscal federalism with special reference to Indian context. It also covers the present fiscal management issues of India.

Course Contents

Module 1: Role of Government (18 hours)

Economic rationale of the Modern State: Market Failure and the Rationale for Government Intervention; Natural Monopolies; Asymmetric Information; The Problem of Externalities and their Internalization - Government failure.

Module II: Theory of Public Goods and Public Choice (22 hours)

Concepts, Characteristics of Public Goods: Economic analysis of Public Goods, Efficient Provision of public good; Partial Equilibrium Analysis, Optimal Provision of Public Good; General Equilibrium Analysis. Merit goods, Impure Public Goods and The Theory of Clubs: Buchanan Model-Tiebout Model, Common property Resources; Tragedy of the commons. Public Choice theory: Problem of Collective Choice Defined, Majority Voting, An economic Theory of politics.

Module III: Fiscal Policy Instruments (28 hours)

Fiscal policy for Stabilization: Classical and Keynesian - Principles of Taxation: Benefit and ability to pay approaches; Theory of Tax Incidence; Theory of optimal Taxation: Trade off between equity and efficiency ; Theory and measurement of dead weight losses- The Problem of Double Taxation.

Theoretical and Empirical Analysis of Public Expenditure: Pure Theories of Public Expenditure, Wagner and Wiseman Peacock Hypothesis. Criteria of public Investment; Social cost- benefit analysis- Public Expenditure Management & Control: Concepts.

Theories of Public debt: classical and Compensatory views; Sources of Public debt; Burden of Public Debt; Principles of Management and Repayment.

Module IV: Fiscal Federalism: Theory and Practice (20 hours)

Principles of Federal (Multi Unit) Finance: Imbalances in Federal Finance; Vertical and horizontal imbalance; Fiscal federalism in India: Constitutional Assignment of Functions and Sources of Revenue- Reports of Finance Commissions: Union and State - Local finance in India: Issues in Fiscal Decentralisation in India in the context of 73rd and 74th constitutional amendments.

Module V: Indian Public Finance: Current Scenario (22 hours)

Indian Tax System: An Assessment; Tax and non- Tax Revenue of the Union, States and local bodies; VAT, CENVAT, Organisational structure of Goods and Services Tax (GST), Practical Issues in Tax reforms in India. - Structure, Trends and Pattern of Public Expenditure in India- Public debt in India: liabilities, Growth and Problems - **Fiscal imbalance: Revenue, Fiscal and Primary Deficits**; Fiscal Responsibility and Budget Management Act- Budget Analysis.

Basic Reading List

1. Jean-Jacques Laffont (1989) Fundamentals of Public Economics, MIT press, Boston.
2. Brown .C.V & Jackson P.M (1991), Public Sector Economics, Blackwell Publishers Inc, Massachusetts, USA.
3. Holley H.Ulbrich (2003), Public Finance in Theory and Practice, Thompson South-Western, Singapore.
4. Musgrave, R.A. and P.B. Musgrave (2004), Public Finance in Theory and Practice, Fifth Edition, McGraw Hill, Kogakusha, Tokyo.
5. David N. Hyman (2005), Public Finance: A Contemporary Application of Theory to Policy, 8th Edition, Cengage Learning.
6. Rosen, Harvey (2013), Public Finance, McGraw Hill, New York.

Additional Reading List

Module I

1. Anthony B. Atkinson & Joseph E. Stieglitz, (1980), Lectures on Public Economics, Mc Graw-Hill. Book Company (UK) Limited, Great Britain
2. Allan H. Meltzer and Scott F. Richard, (1981) “A Rational Theory of the Size of Government”, Journal of Political Economy, Vol. 89, No. 5
3. Joseph E. Stieglitz, (2010), Economics of Public Sector, W.W. Norton & Company.
4. Francesco Forte (2011) Principles of Public Economics a Public Choice Approach, Sapienza – University of Rome, Italy.
5. Joaquim Silvestre (2013) Public Microeconomics Efficiency and Equity in Public Policy, University of California, Davis, US.

Module II

1. Alan J. Auerbach and Martin Feldstein, (1985 & 1987) Handbook of Public Economics Vol. 1 & 2, Elsevier, Amsterdam, North Holland.
2. Thomas A. Husted and Lawrence W. Kenny, (1997) “The Effect of the Expansion of the Voting Franchise on the Size of Government”, Journal of Political Economy, Vol. 105, No. 1.
3. John Cullis and Phillip Jones (1998), Public Finance and Public Choice, Second Edition, Oxford University Press, New York.
4. Dennis C. Mueller, (2003) “The size of government”, In Public Choice III, Cambridge University Press, Cambridge.
5. Hindriks J and Myles GD. (2006), Intermediate Public Economics, Prentice Hall of India Ltd. New Delhi.
6. Jonathan Gruber, (2009) “Public Goods”, In Public Finance and Public Policy, Worth Publishers, Chapter- 7.

Module III

1. Ramsey F.P., (1927) “A Contribution to the Theory of Taxation”, The Economic Journal, Vol. 37, No. 145.
2. Paul A. Samuelson, (1955) “Diagrammatic Exposition of a Theory of Public Expenditure”, Review of Economics and Statistics, Vol. 37, No. 4.

3. Alan T. Peacock, (1979) *The Economic Analysis of Governments, and Related Themes*, St Martin Press, New York.
4. Alan J. Auerbach and Martin Feldstein, (1985 & 1987) *Handbook of Public Economics* Vol. 1 & 2, Elsevier, Amsterdam, North Holland.
5. Michael J. Boskin, (1988) "Concepts and Measures of Federal Deficits and Debt", In Kenneth Joseph Arrow and Michael J. Boskin (eds.), *The Economics of Public Debt*, International Economic Association, Macmillan Press, New York.
6. Joel Slemrod, (1990) "Optimal Taxation and Optimal Tax Systems", *The Journal of Economic Perspectives*, Vol. 4, No. 1.
7. Sijbren Cnossen, (1992) *Key Questions in Considering a Value Added Tax for central and Eastern Europe Countries*, IMF Staff Papers, Vol. 39, No. 2.
8. Raghendra Jha, (1998) *Modern Public Economics*, Routledge, London.
9. Alan J. Auerbach and James R. Hines, (2002) "Taxation and economic efficiency", In Alan J. Auerbach and Martin Feldstein (eds.), *Handbook of Public Economics: vol. 3*, North-Holland, Amsterdam, Chapter- 21.
10. Alan J. Auerbach and James R. Hines, (2002) "Taxation and economic efficiency", In Alan J. Auerbach and Martin Feldstein (eds.), *Handbook of Public Economics: vol. 3*, North-Holland, Amsterdam,
11. Don Fullerton and Gilbert E. Metcalf, (2002) "Tax Incidence", In Alan J. Auerbach and Martin Feldstein (eds.), *Handbook of Public Economics: vol. 4*, North-Holland, Amsterdam, Chapter- 26.
12. Amaresh Bagchi, (2005) *Readings in Public Finance*, Oxford University Press, USA.
13. Jonathan Gruber, (2009) "Public Goods", In *Public Finance and Public Policy*, Worth Publishers

Module IV

1. Charles M. Tiebout, (1956) "A pure theory of local expenditures", *Journal of Political Economy*, Vol. 64, No. 5.
2. Wallace E. Oates, (1999) "An Essay on Fiscal Federalism", *Journal of Economic Literature*, Vol. 37, No. 3.

3. Richard A. Musgrave, (1999) “Fiscal federalism”, In James M. Buchanan and Richard A. Musgrave (eds.), Public Finance and Public Choice: Two contrasting Visions of the State, MIT Press, Cambridge, .
4. Amaresh Bagchi and Pinaki Chakraborty, (2004) “Towards a Rational System of Centre-State Revenue Transfers”, Economic and Political Weekly, Vol. 39.
5. Rangarajan C. and Srivastava D.K. (2011) Federalism and Fiscal Transfers in India, Oxford
6. Per Molander (2012) Fiscal Federalism in Unitary States ,ZEI Studies in European Economics and Law.

Module V

1. Gulati, I. S., (1991) “Reducing the Fiscal Deficit: Soft and Hard Options”, Economic and Political Weekly, Vol. 26, No. 29.
2. National Institute of Public Finance and Policy (India) (1994) Reform of Domestic trade Taxes in India: Issues and Option: Report of a Study Team, New Delhi.
3. Sudipto Mundle, (1997) Public Finance Policy Issues for India, Oxford University Press, New Delhi.
4. Amaresh Bagchi, (2005) Readings in Public Finance, Oxford University Press, New Delhi.
5. Pinaki Chakraborty, (2005) “Debt Swap in a Low Interest Rate Regime: Unequal Gains and Future Worries”, Economic and Political Weekly, Vol. 40, No. 40, pp. 4357-4362.
6. Prabhat Patnaik, (2001) “On Fiscal Deficits and Real Interest Rates”, Economic and Political Weekly, Vol. 36.
7. Mihir Rakshit, (2000) “On Correcting Fiscal Imbalances in the Indian Economy - Some Perspectives”, Money and Finance, ICRA Bulletin, July September.
8. Reserve Bank of India (1985) Report of the Committee to Review the Working of Monetary System, Mumbai. 43
9. Rao, M. Govinda, (2003) “Reform in Central Sales Tax in the Context of VAT”, Economic and Political Weekly, Vol. 38, No. 7, pp. 627-636
10. Mahesh C. Purohit and Vishnu Kanta Purohit (2014), The Oxford Handbook of Tax System in India: An Analysis of Tax Policy and Governance, Oxford.

11. Jalan, Marjit, Santra (2016) India Public Finance and Policy Report 2016: Fiscal Issues and Macro Economy , Oxford.
12. Bimal Jain, Isha Bansal (2016) Goods and Services Tax introduction and way forward, Bloomsbury, New Delhi.

CORE PAPERS IN FOURTH SEMESTER

EC 241: MACRO ECONOMICS - II

(Hours per semester: 120

Hours per week: 7)

Objectives

The important areas included in this portion are the theoretical development of the macroeconomic issues of inflation, unemployment and business fluctuations. The development of macro economics after Keynesian revolution, divided into classical school and Keynesian school, and the impacts of various macroeconomic policies in the society are also covered here. By learning this paper, the students should be able to keep abreast with the latest development of macroeconomics development.

Course Contents

Module 1: Theory of Inflation and Unemployment (20 hours)

Classical, Keynesian and monetarists approaches of inflation- Structuralist Theory of Inflation – Measuring inflation- Costs of inflation and Inflation Targeting –Benefits of inflation

Philips curve analysis- Short run and Long Run Philips curve- Samuelson and Solow's views- the Natural Rate Unemployment Hypothesis- Tobin's modified Philips curve- NAIRU- Adaptive Expectations- Expectation Augmented Philips curve- Cost of reducing inflation and unemployment- Increasing Natural Rate of Unemployment and Hysteresis Hypothesis –Philips curve and Rational expectation- New Micro Economics in Labour Market- Search theory- DMP (Diamond, Mortenson, Pissarides) model.

Module 2: Business Cycle (20 hours)

Cyclical behaviour of economic variables – Direction and Timing – Aggregate demand Shocks and Aggregate Supply Shocks – Business cycle theories of Keynes, Samuelson, Hicks, Kaldor and Goodwin – Real Business Cycle Theory- Political Business Cycle theories (views of Nordhaus, Hibbs and Alesina) – Financial and economic crisis 2007-2009- Causes and consequences (Financial Innovation, Asset Risk and Diversification, Impact on Real Sector)– View points by Conservative and Keynesian economists (Eugene Fama, Paul Krugman etc)

Module 3: Modern Development in Macro Economics –Classical school (25 hours)

Monetarism- Rational Expectations- New Classical Macro Economics- Views of Muth, Wallace, R.E.T Sargent and Lucas (Lucas Surprise Labour Function, the Inter Temporal

Substitution Model, Policy Ineffectiveness Argument, The Lucas Critique)- Supply Side Economics- Supply Shocks and Stagflation- Wedge Model- Laffer Curve- Policy Implication- The Dynamically Stochastic General Equilibrium model (DSGE)

Module 4: Modern Development in Macro Economics – Keynesian school (25 hours)

Neo-Keynesianism- Disequilibrium Keynesians: Reinterpretation of Keynes by Clover and Leijonhufvud- the Dual Decision Hypothesis- Quantity Constrained Model of Malinvaud and Barro- Coordination Failure

Fundamental arguments of Post Keynesians- Kalecki's Pricing Model- Financial Instability Model of Hymn Minsky

New Keynesian macro economics- Nominal Rigidities- Real Rigidities- Small Menu Cost Model-Implicit Wage Contract Model- Efficiency Wage Theories- Insider Outsider Model and Hysteresis- Coordination Failure- Policy Implications – New Political Macro Economics-New Neo Classical Synthesis

Module 5: Macroeconomic Policy Issues (30 hours)

The theory of economic policy- Target and Instrumental variables – Tinbergen Rule- Case for and Against Activists Policy- Policy Lags

Monetary Policy –Conduct of Monetary Policy –Rules vs Discretion – The Time Inconsistency Proposition –Rules of Monetary policy- Taylor Rule- Monetary Targeting and Inflation Targeting –Central Bank Independence and credibility

Fiscal policy –Crowding out – Budget deficits and Debt– Seignorage- Measurement problem of Govt Debt- Views on Govt Debt – Traditional View- Barro-Ricardo Equalization Problem –Political Economy Theories of Budget Deficit- Effects of deficits- Income Policy and Wage Guideposts-Alternative Strategies to Reduce inflation – Gradualism vs Cold Turkey – Disinflation and Sacrifice Ratio – Okun's Law – Growth vs Stability.

Basic Reading List

1. Mankiw, G. (2011), Macro Economics, Worth Publishers, New York
2. Rudiger Dornbusch, Stanley Fischer and Richard Startz (2006), Macroeconomics, McGraw-Hill.
3. Levacic, R. and A. Rebman (2006), Macro Economics, Mac Millan Pres Ltd.
4. Froyen, R.(2008). Macroeconomics, Pearson India

5. Snowdon, B. H. Vane and P. Wynarezyk (2002), A modern Guide to Macro Economics: An introduction to competing schools of thought, Edward Elgar.
6. Kamran Dadkhah (2010), Evolution of Macro Economic Theory and Policy, Springer
7. David Romar (2011), Advanced Macro Economics, McGra-Hill, 4th Edition
8. Andre B.Abel and Ben S. Bernanke (2010), Macro Economics, 4th Edition, Pearson
9. G.K.Shaw, Michael J, Mc Croshie and David Greenway, Macro economics, theory and Practice, Blackwell.

Additional Reading List

Module 1

1. Garner Ackley (1989) Macro Economics: Theory and Practice, Collier Macmillan
2. I.Frisch H (1983), Theories of Inflation, Cambridge University Press, Cambridge
3. Haggard, A,J (1977), Inflation: Theory and Policy, Macmillan, London
4. Hudson, J (1982), Inflation: A Theoretical Survey and Synthesis, George Allen and Unwin, London
5. Oliver Blanchard (2011), Macro Economics, Pearson
6. A.J.Westaway and T.G.Weyman Johnes (1978), Macro Economics, Theory, Evidence and Policy, Longman
7. Errol D'Souza (2008), Macro Economics, Pearson

Module 2

1. A.J.Westaway and T.G.Weyman Johnes (1978), Macro Economics, Theory, Evidence and Policy, Longman
2. Stanley Bober (2010), Economics of Cycles and Growth, Wiley.
3. Lucas, Robert E, "Understanding Business Cycle" in K.Brunner and A.Meltzer (eds.) Stabilisation of the Domestic and International Economy, Carnegie-Rochester Series on Public Policy 5 (Amsterdam: North-Holland) 1976.
4. Kydland, Finn E. and Edward C. Prescott "Time to Build and Aggregate Fluctuations", *Econometrica* 50: 1345-1370, 1982.

Module 3

1. Friedman A (1968), The Role of Monetary Policy, *The American Economic Review*, Vol 58, No 1 (March 1968)

2. G.Mankiew (1989) Real Business Aspects- A Keynesian Perspective, Journal of Economic Perspective, Vol 3
3. David Laidler, New Classical Contribution to Macro Economics (In Macro Economic Reader) ed by B.Snowdon and H.R.Vane, Routledge
4. Finn E Kydland, Edward C. Prescott, Rules Rather than Discretion, The Journal of Political Economy, Vol 85, N.3 (June 1977)
5. Thomas Mayer, The Structure of Monetarism (in Macro Economic Reader) ed by B.Snowden and H.R.Vane, Routledge
6. Charles A Plosser, Understanding Real Business Cycles, (ibid.) Routledge
7. Lefteris Tsoufidis (2010), Competing Schools of Economic Thought, Springer
8. Farrokh K Langdna (2009), Macro Economic Policy: Demystifying Monetary and Fiscal Policy,
9. Brian Snowdon and Howard R.Vane (Ed) (2003), A Macro Economic Reader, Routledge.
10. Ben J. Haijdra Frederick Van Der Ploeg (2002), Macroeconomics, OUP
11. A.J.Westaway and T.G.Weyman Johnes (1978), Macro Economics, Theory, Evidence and Policy, Longman

Module 4

1. Robert J Gordon, What is now Keynesian Economics? (in Macro Economic Reader) ed by B.Snowden and H.R.Vane, Routledge
2. Finn E Kydland, Edward C. Prescott, Rules Rather than Discretion, The Journal of Political Economy, Vol 85, N.3 (June 1977)
3. Lefteris Tsoufidis (2010), Competing Schools of Economic Thought, Springer
4. Ben J. Haijdra Frederick Van Der Ploeg (2002), Macroeconomics, OUP
5. M.J.C Surrey (1976), Macroeconomic Themes, Wily Eastern.
6. James K Galbraith and William Darity Jr (1994), Macroeconomics, Houghton.
7. Goodfriend, Marvin; *King, Robert G* (1997), "The New Neoclassical Synthesis and the Role of Monetary Policy", NBER Macroeconomics Annual, NBER Chapters, National Bureau of Economic Research, **12**: 231–83
8. Kocherlakota, Narayana R (May 2010), "Modern macroeconomic models as tools for economic policy", Federal Reserve Bank of Minneapolis

9. Woodford, Michael (2009), "Convergence in Macroeconomics: Elements of the New Synthesis", *American Economic Journal: Macroeconomics*, **1** (1): 267–79

Module 5

1. Friedman A (1968), The Role of Monetary Policy, *The American Economic Review*, Vol 58, No 1 (March 1968)
2. Finn E Kydland, Edward C. Prescott, Rules Rather than Discretion, *The Journal of Political Economy*, Vol 85, N.3 (June 1977)
3. *Frederic S. Mishkin* (2011), *Macroeconomic: Policy and Practice*, Pearson Education Limited.
4. Prabhat Patnaik (1995), *Macroeconomics* (edt.), OUP, New Delhi
5. Kocherlakota, Narayana R (May 2010), "Modern macroeconomic models as tools for economic policy", Federal Reserve Bank of Minneapolis

EC 242: INTERNATIONAL ECONOMICS - II

(Hours per semester: 110

Hours per week: 6)

Objectives

The objective of this course is to introduce to students the theories of international finance flows, determination of interest and exchange rates in interconnected economies, macroeconomic policies available to the government, and the nature of financial crises. The course also aims to provide a framework for consistent reasoning about international flows of goods, factors of production, and financial assets, trade policy and monetary policy in open economy.

Course Contents

Module – 1: Foreign Exchange Market (28 hours)

Evolution of foreign exchange rate determination mechanism. Speculation and arbitrage, role of expectations, currency swaps, future and options – Asset approach to exchange rate – Portfolio balance approach – FOREX management strategy – Management of foreign exchange with special reference to India – Indian Rupee and its fluctuations in international currency market.

Module – 2: BOP Approach (24 hours)

Monetary model of BOP under fixed and flexible exchange rates – Devaluation and BOP crisis – Effects of Devaluation- Elasticity and Absorption Approach-Marshall - Lerner Condition – Foreign trade multiplier– Recent trends in BOP in India

Module – 3: Open Economy Adjustment Policies (20 hours)

Internal and external balance – Swan diagram – Assignment problem – Expenditure Switching and Changing policies – Combining monetary and fiscal policies

Module – 4: International Financial Management (19 hours)

Euro currency market and international bond market – Analysis of international capital budgeting – Issues in overseas funding choices – Funding and risk management – Aspects of European debt crisis –Euro crisis and Brexit.

Module – 5: International Financial Institutions (19 hours)

Institutions for International Relations and Liquidity-Evolutionary and operational developments in international institutions- IMF, IBRD, IDA, UNCTAD, ADB, WTO. Problems and prospects of WTO Agreement in present Global trading- India and International institutions

Basic Reading List

Module 1

1. Copeland L. (CL) Exchange rates and International Finance, 5th edition, 2008
2. Foreign Exchange and Risk Management C . Jeevanandam Sulthan Chand and Son
3. Maurice .D.Levi-International Finance: The Markets and Financial Management of Multinational Business Mc Graw Hills 1990 1995

Module 2

1. Appleyard, D.R. and Field. A.J. International Economics, New York: Irwin McGraw Hill, 1998.
2. Francis Cherunilam-International Economics Mc Graw Hills Education 2008
3. International Economics by Dennis R. Appleyard; Steven Cobb; Alfred J. Field
4. Paul.R.Krugman and Maurice Obsterfeld – International Economics, Pearson Education 2009 Dorling Kindersley (India) Pvt Ltd.

Module 3

1. Peter Isard - Exchange Rate Economics,Cambridge University Press, 1995 Business & Economics
2. Kenen, Peter B. International Economics. Cambridge. Cambridge University Press,1996

Module 4

1. Shapiro - Capital Budgeting And Investment Analysis, Pearson Education India, 2008
2. G. Shailaja, International Finance, University Press Hyderabad
3. Bierman, H. and S. Smidt, 1992, The Capital Budgeting Decision, Macmillan Company, New York.

Module 5

1. Krugman, P.R. International Economics. New Delhi: Pearson, 2007.
2. Salvatore, D. International Economics. Singapore: John Wiley & Sons, 2002.

3. Carbaugh, R.J. International Economics. Singapore: Thompson Asia, 2002.
4. K C Rana and K N Verma – International Economics, Vishal Publishing House P O 2012

Additional Reading List

1. Paul.R.Krugman and Maurice Obsterfeld – International Economics, Pearson Education 2009 Dorling Kindersley (India) Pvt ltd.
2. Krugman and Obsterfield-International Economics: Theory and Policy, Education Dorrbusch, Open Economy Macro Economics, Basic Books,Inc Publishers
Stern R.M-International Trade and Finance Cambridge University Press
3. Avadhani.V.M. International Finance Theory and Practice-Himalaya Publishing House Delhi
4. Cooper R.N.(ed) International Finance Penguin books U.K. 1969
5. Apte.P G.International Finance Management Tata Mc Graw Hills Delhi 1995
6. Rodrigues .R.M. and Carter International Financial Management, Prentice Hall New Delhi 1984
7. A Textbook of Foreign Trade and Foreign Exchange B.K.Chaudhri O.P.Agarwal Himalaya Publishing House
8. International Financial Management-Madhu V.J. Excel Books,New Delhi

EC 243: FINANCIAL SECURITIES MARKET ANALYSIS

(Hours per semester: 110

Hours per week: 6)

Objectives

This course is designed to provide comprehensive study of the significance of Securities Market in modern financial system. It includes a discussion of the efficient securities markets theory in finance, covers bond pricing, price-earnings models of share valuation, and introduces the top down approach to investment decisions. The emphasis is on a thorough coverage of modern finance theory as applied to investment analysis, balanced with a consideration of new developments in the discipline, and of the application of both old and new theoretical perspectives to understand the current environment for financial investment decisions.

Course Contents

Module I : Securities Market (20 hours)

The role and significance of Securities Market in modern financial system - Levels of Securities Market: Primary Market (New issue market) and Secondary Market (Stock exchange and Over the counter market) - Primary stages in issue of shares (origination, underwriting and distribution) – IPO – FPO - Methods of floatation of new issues (public issue, rights issue, bonus issue, private placement, offer to the employees) - Listing procedure of shares in securities market: objectives and advantages.

Module II : Stock Market in India (20 hours)

Nature and functions of stock exchanges - Stock exchanges in India: NSE and BSE, National Commodities and Derivatives Exchange Ltd (NCDEX). Stock exchange indices and its construction- Nifty (Mini Nifty, Sectoral indices like Bank Nifty), Sensex. Stock market participants: individual retail investors, institutional investors (mutual funds, banks, insurance companies and hedge funds), corporations and foreign institutional investors (FIIs). Dematerialization and depository system - Major depositories (NSDL & CDSL). Credit Rating Agencies (CRISIL, ICRA, CARE). Speculation and other Issues in stock market (Insider trading). Regulatory aspect: SEBI.

Module III : Stock Investment Decision Analysis (20 hours)

Security Analysis - Fundamental analysis - PE Ratio (price to earnings), EPS (earning per share), Book value (price to book value ratio), Working Capital Ratio, Return on Equity Ratio (ROE), Debt Equity Ratio, Dividend yield, Price-Sales Ratio(P/S ratio) - Technical analysis: Significance of Trend lines, Dow Theory and Elliot-Wave Theory - Efficient Market Hypothesis (Weak form-Semi strong form-Strong form). Portfolio Management: Definition, Objectives and **Markowitz Portfolio Theory.**

Module IV: Stock Market Trading in India (25 hours)

Basic requirements for Stock Investment/Trading (Stock Broker, Saving Account, Demat Account, Trading Account, Internet Facilities). Types of investment in stock market (short term and long term investment). Methods of buying and selling stocks (Market order, Limit order and Stop loss order). Types of stock trading (Day trading and Delivery trading). Online share trading and Offline share trading. Current Settlement System in the stock market. Tax implications of investing in stocks (Exemption of dividend and long- term capital gains from tax).

Basic Concepts in share trading- Open, High, Low, Close, Volume, Bid price, Offer price, Bid quantity, Offer quantity, Short selling, Penny stocks, Large cap stocks, Mid cap stocks, Small cap stocks, Transaction cycle, Margin trading, Bull phase, Bear phase, Dividend (interim and final dividend) and Bonus shares. Brokerage charge and Securities transaction tax.

Module V: Market for Derivatives and Mutual Funds (20 hours)

Economics of Derivatives (Forwards, Swaps, Futures and Options), Futures Contracts- Pricing of Futures Contracts, Hedging with Futures Contracts, Financial Futures, Commodity Futures, Use of Future Contracts, Economics of Options Contracts – Call Option, Put Option, Option premium, Payoffs of option before expiration, Major factors in Option Pricing: Intrinsic value and Time value. Hedging Strategies in Futures and Options: Short Hedges and Long Hedges. Mutual Funds: Liquid Funds, Debt Funds, Equity Funds, Balanced Funds. NAV of mutual fund schemes. Systematic Investment Plan (SIP).

MODULE VI: Practical Session (5 Hours)

Online trading- live markets-trade related aspects and derivatives.

[Note: Scheme for Continuous Assessment (CA) of this paper: (a) attendance – 5 marks, (b) assignment -5 marks, (c) for attending 5 hours of practical work on online trade - 5 marks, and (d) test paper - 10 marks; total - 25 marks]

Reading List

Module I

1. Bhalla, V.K. (2013). Investment Management: Security Analysis and Portfolio Management, New Delhi, S.Chand and Company Pvt Ltd.
2. Bhole, L. M. (2009). Financial Institutions and Markets: Structure, Growth and Innovations, New Delhi, Tata McGraw – Hill Education Pvt Ltd.
3. Gurusamy, S. (2009). Indian Financial System, New Delhi, Tata McGraw – Hill Education Pvt Ltd.
4. Kevin, S. (2015). Security Analysis and Portfolio Management, New Delhi, Prentice-Hall of India Pvt Ltd.
5. Khan, M. Y. (2013). Indian Financial System, New Delhi, McGraw Hill Education (India) Pvt Ltd.
6. Mahipal Singh (2011). Security Analysis with Investment and Portfolio Management, Delhi, ISHA Books.
7. Pandya, F.H. (2013). Security Analysis and Portfolio Management, Mumbai, Jaico Publishing House.
8. Ranganatham, M & Madhumathi, R. (2012). Investment Analysis and Portfolio Management, New Delhi, Dorling Kindersley (India) Pvt Ltd.
9. Sasidharan, K & Mathews, Alex.K. (2011). Security Analysis and Portfolio Management, New Delhi. Tata McGraw- Hill Education Private Ltd.
10. Subhash Chandra Das (2015). The Financial System in India: Markets, Instruments, Institutions, Services and Regulations, Delhi, PHI Learning Private Ltd.

Module II

1. Avadhani, V.A. (2012). Marketing of Financial Services, Mumbai, Himalaya Publishing House.
2. Bhalla, V.K. (2013). Investment Management: Security Analysis and Portfolio Management, New Delhi, S.Chand and Company Pvt Ltd.
3. Chandra, Prasanna (2009). Investment Analysis and Portfolio Management, New Delhi, Tata McGraw- Hill Education Pvt Ltd.

4. Dhanesh Khatri (2010). Security Analysis and Portfolio Management, Delhi, Macmillan Publishers India Ltd.
5. Gurusamy, S. (2009). Indian Financial System, New Delhi, Tata McGraw – Hill Education Pvt Ltd.
6. Khan, M. Y. (2013). Indian Financial System, New Delhi, McGraw Hill Education (India) Pvt Ltd.
7. Pandya, F.H. (2013). Security Analysis and Portfolio Management, Mumbai, Jaico Publishing House.
8. Raghunathan, V. (2005). Stock Exchanges and Investments, New Delhi, Tata McGraw-Hill Publishing Company Ltd.
9. Ramesh Babu, G. (2007). Portfolio Management: Including Security Analysis, New Delhi, Concept Publishing Company.
10. Samuel Thomas (2014). Security Analysis and Portfolio Management, Delhi, PHI Learning Private Ltd.

Module III

1. Bhalla, V.K. (2013). Investment Management: Security Analysis and Portfolio Management, New Delhi, S.Chand and Company Pvt Ltd.
2. Fischer, D. E and Jordan, R.J. (2009). Security Analysis and Portfolio Management, New Delhi, Prentice-Hall of India Pvt Ltd.
3. Graham, B & David Dodd (2008). Security Analysis, New Delhi, McGraw- Hill Professional.
4. Gurusamy, S. (2009). Indian Financial System, New Delhi, Tata McGraw – Hill Education Pvt Ltd.
5. Kevin, S. (2015). Security Analysis and Portfolio Management, New Delhi, Prentice-Hall of India Pvt Ltd.
6. Ramesh Babu, G. (2007). Portfolio Management: Including Security Analysis, New Delhi, Concept Publishing Company.
7. Ranganatham, M & Madhumathi, R. (2012). Investment Analysis and Portfolio Management, New Delhi, Dorling Kindersley (India) Pvt Ltd.
8. Sasidharan, K & Mathews, Alex.K. (2011). Security Analysis and Portfolio Management, New Delhi. Tata McGraw- Hill Education Private Ltd.

9. Subhash Chandra Das (2015). The Financial System in India: Markets, Instruments, Institutions, Services and Regulations, Delhi, PHI Learning Private Ltd.
10. Teweles.R.J & Bradley.E.S. (2012). The Stock Market, John Wiley& Sons, Inc.

Module IV

1. Bhalla, V.K. (2013). Investment Management: Security Analysis and Portfolio Management, New Delhi, S.Chand and Company Pvt Ltd.
2. Border, John & Evan J. Houpt (2015). Stock Market for Beginners Book, Publisher: John Border.
3. Dhanesh Khatri (2010). Security Analysis and Portfolio Management, Delhi, Macmillan Publishers India Ltd.
4. Gurusamy, S. (2009). Indian Financial System, New Delhi, Tata McGraw – Hill Education Pvt Ltd.
5. Mahipal Singh (2011). Security Analysis with Investment and Portfolio Management, Delhi, ISHA Books.
6. Orli Zuravicky (2005). The Stock Market, New York, The Rosen Publishing Group, Inc.
7. Ranganatham, M & Madhumathi, R. (2012). Investment Analysis and Portfolio Management, New Delhi, Dorling Kindersley (India) Pvt Ltd.
8. Ramesh Babu, G. (2007). Portfolio Management: Including Security Analysis, New Delhi, Concept Publishing Company.
9. Sasidharan, K & Mathews, Alex.K. (2011). Security Analysis and Portfolio Management, New Delhi. Tata McGraw- Hill Education Private Ltd.
10. Subhash Chandra Das (2015). The Financial System in India: Markets, Instruments, Institutions, Services and Regulations, Delhi, PHI Learning Private Ltd.

Module V

1. Bhole, L. M. (2009). Financial Institutions and Markets: Structure, Growth and Innovations, New Delhi, Tata McGraw – Hill Education Pvt Ltd.
2. Brahmaiah, B. & Subba Rao, P. (1998). Financial Futures & Options, New Delhi, Himalaya Publishing House.
3. Chandra, Prasanna (2008). Financial Management: Theory and Practice, New Delhi, Tata McGraw- Hill Publishing Company Ltd.

4. Dhanesh Khatri (2010). Security Analysis and Portfolio Management, Delhi, Macmillan Publishers India Ltd.
5. Fischer, D. E and Jordan, R.J. (2009). Security Analysis and Portfolio Management, New Delhi, Prentice-Hall of India Pvt Ltd.
6. Hull, John.C. (2004). Options, Futures and Other Derivatives, New Delhi, Prentice-Hall of India Pvt Ltd.
7. Kevin, S. (2015). Security Analysis and Portfolio Management, New Delhi, Prentice-Hall of India Pvt Ltd.
8. Kumar, S.S.S. (2010). Financial Derivatives, New Delhi, PHI Learning Pvt Ltd.
9. Ranganatham, M & Madhumathi, R. (2012). Investment Analysis and Portfolio Management, New Delhi, Dorling Kindersley (India) Pvt Ltd.
10. Sasidharan, K & Mathews, Alex.K. (2011). Security Analysis and Portfolio Management, New Delhi. Tata McGraw- Hill Education Private Ltd.
11. Somanathan, T.V. & Nageshwaran, V. Anantha (2015), The Economics of Derivatives, Cambridge University Press, Delhi.
12. Bouchaud, Jean – Philippe and Potters, Marc (2011), Theory of Financial risk and Derivative pricing- From Statistical Physics to Risk management, Cambridge University Press, Delhi.

EC 244: DISSERTATION

Objectives

The objective of dissertation work is to develop research aptitude and skills among the students.

Course Description

A well structured dissertation work meeting standard requirements of academic writing.

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 for PG)
6. Formulation of Research Questions /Issues
7. Research objectives
8. Hypotheses (Optional for PG)
9. Theoretical framework (Optional for PG)
10. Conceptual Framework – Conceptualization & Operationalization (precise and specific meaning of the terms / concepts /variables)
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
 - i.** Introductory Chapter
 - ii.** Other Background Chapters
 - iii.** Result/Analysis Chapter(s)
 - iv.** Conclusion Chapter
17. Appendices
18. Bibliography /References & Webliography

Structure of the Report

A. Title Page/ Cover Page

- a. Title page
- b. Title of the project
- c. Name of the candidate/candidate code
- d. Degree for which project is submitted.
- e. Name of the college
- f. Month and year the project is presented

B. Declaration of the student

C. Certificate of the supervising teacher

D. Acknowledgments

E. Table of contents

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

F. Chapter Outlines (Chapter Titles and Page Numbers)

G. Abstract/ Executive Summary (One page)

H. The Main Text

- a. Introductory Chapter: Items 3 to 15 mentioned above
- b. Other Chapters - Analysis, Results Interpretation
- c. Conclusion Chapter: Conclusions, Recommendations & Summary

I. End Notes (after each Chapter)

J. Bibliography (at the end of the thesis)

K. 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 50 to 70 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 at 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		
	Seminar 1		
	Research Design		
	Collect Data		
	Analyze Data		
	Write up		
	Supervisor's Comments		
	Final Draft -Seminar 2		

Name of the Supervisor:

Name of the Student:

Notes: The dissertation work may be started in the Third Semester itself for timely completion of the work at the end of the IV Semester.

OPTIONAL PAPERS IN THIRD SEMESTER

EC 201: AGRICULTURAL ECONOMICS

(Hours per semester: 110

Hours per week: 6)

Objectives

The objective of this course is to develop the knowledge and understanding of basic principles and practice of Economics as required in Agricultural Economics. The course also aims at equipping the students with the knowledge and skills required to analyze the agricultural economic issues for efficient use of scarce resources in agriculture sector and its development, consistent with the interest of all stake holders.

Course Contents

Module 1 Agricultural Economics (15 hours.)

Scope of Agricultural Economics-Farming systems; types-Organizational structure; traditional (subsistence), corporate, co-operative, collective, state farming- Theories of agricultural development ; Schultz, Mellor, Lewis and Boserup.

Module 2: Agricultural Production (30 hours)

Production function in Agriculture; factor-product relationships, product-product relationships, factor-factor relationships - Supply response models; Cobweb, Nerlove models- Resource use efficiency - Farm size productivity relationship in Indian Agriculture-Cost concerned supply- price relationship-Farm management; principles, need, relevance-Farm management decisions -Principles of factor substitution - Cost principles; opportunity cost, comparative advantage - Limitations of farm management-Farm Budgeting; types, techniques-RAINBOW Revolution -Green Revolution –Second green revolution –Ever green revolution-Farm mechanization

Module 3: Agricultural Marketing and Supply Response (25 hours)

Agricultural Marketing; distinction-Marketed and marketable surplus- Efficiency in Agricultural marketing; need, criteria for judging efficiency, problems- Agricultural marketing system in India; current scenario, problems, measures, institutional set up, support systems- Regulated Markets –Co-operative markets.

Behavior of agricultural prices –Demand and supply of agricultural products –Supply response in Agriculture;different views - Uncertainty and crop insurance-Commission on Agricultural Cost and Prices; role, functions, performance.

Module 4 : Determination and Behaviour of Agricultural Prices (20 hours)

Nature of agricultural prices- Price income elasticity and stability-Procurement, support prices- Input subsidies; issues, challenges-PDS and food security

Module 5-Leading issues in Indian Agriculture (20 hours)

Agricultural development in India; share, contribution, impact on economy- Post reform agriculture- Land reforms in India and its impact on agrarian structure-National Agricultural policy-Agriculture and environment-Rural indebtedness;causes, effects counter measures-Issue of commercialization of agriculture-New economic policy and agriculture –Globalization of Indian agriculture –Role of MNCs –privatization and corporatization-AoA and its impacts.

Reading List

Module 1

1. Bilgrami, SAI: (1996). Agricultural Economics, Himalaya Publishing House, Delhi.
2. Soni.R.N. (2004) Leading Issues in agricultural Economics, Vishal Publishing Co. Jalandhar.
3. Sadhu.A.N and Amarjith Singh, (IS 11). Fundamentals of Agricultural Economics, Himalaya Publishing House, Bombay.
4. Y. Haymi and V. Rutan, (1971), Agricultural Development, An International prospective, John Hopkins.

Module 2

1. E.D-Heady (1961), Economics of Agricultural production and Resource use. Prentice Hall.
2. A. Rudra, (1982), Indian Agricultural Economics
3. D.Metcalf, (1969). The Economics of Agriculture.
4. Soni.R.N. (2004), Leading Issues in Agricultural Economics, Vishal Publishing. Co Jalandhar.
5. C.H. Hanumantha Rao. (1965). Agricultural Production Functions, Costs and Returns in India, Tata. McGraw Hill

6. R.K.Lekhi and Jogindersingh (2004) Agricultural Economics ,Kalyani Publications ,Liudhiana

Modules 3

1. S.S.Acharya and N. Argwall (1998), Agricultural Marketing in India.
2. Soni.R.N. (2004),. Leading Issues ii Agricultural Economics, Vishal Publishing Co Jalandhar.
3. Tyagi.D.S. (1974). Fanners Responses to Agricultural Prices in India, A Study in decision making. New Delhi, Heritage Publishers.
4. Khusro. AM (1968), Readings in Agricultural Economics, Bombay, Allied.
5. Sidhu D.S. (1990), Some Aspects of Agricultural Marketing and Pricing Policies India, UAE, Oct- December.
6. Acharya.S.S. (1998), "Agricultural Marketing in India: Some facts and Emerging Issues: UAE, July-Sept.
7. H.Evan Drummond John W.Godwin (2004) Agricultural Economics, Pearson Education, Delhi.

Module 4

1. K Subbaran and D.E.Janvry, (1985), Agricultural price policy and Income Distribution in India.OUP.
2. S.Subba Reddy ,P.RaghuRam,T.V.NeelakandaSastry and I.Bhavani Devi (2004)Agricultural Economics ,Oxford and IBH,Newdelhi
3. A.S.Kahlon and D.S.Tyagi. Agricultural pace policy on India, Hentage Publishers.
4. Rath, N.K.(1985). "Prices, costs of Production and Terms of Trade of Indian Agriculture, IJAE, Oct-Dec.
5. R.N. Soni, (2004), Leading Issues in Agricultural Economics, Vishal Publishers, Jalandhar.
6. Umakapila (1999) Indian Economy since Independence - academic Foundation
7. G.S. Bhalla and Y.K. Alagh (1979), Performance of Indian Agriculture - wise study, sterling.
8. M.L. Dantwada (ed.) (1985) Agricultural Growth in India, Indian Agricultural Economics.
9. R.K. Sampath (1980) Economic Efficiency in Indian Agriculture.

10. Datwala M.J et.al (1991) Indian Agricultural Development since India Oxford and IBH, New Delhi.

Module 5

1. Raj.K.N.etal. (1988), Essays in the commercialisation of Indian -Agriculture New Delhi.
2. Soni,R.N.(2004),. Leading Issues in agricultural Economics, Vishal Publications, Jalandhar.
3. Robet.E.B. .Lacas, G.A.Papanck (Ed.) The Indian Economy, OUP 2000.
4. R.K.Lekhi and Jogindersingh (2004) Agricultural Economics ,Kalyani Publications ,Liudhiana

EC 202: ECONOMICS OF INSURANCE

(Hours per semester: 110

Hours per week: 6)

Objectives

This course on Insurance Economics attempts to give a fairly comprehensive view of the subject to the post-graduate students in Economics and pave the way for possible future expansion of the teaching of an important branch of Economics. The objectives of the paper are: (1) to obtain an overview of the essential concepts in insurance economics, (2) to develop an understanding of the structure of the insurance industry, (3) to understand the main types of insurance available to business and individual, (4) to understand the implications of asymmetric information for insurance contracting, and (5) to be able to explain and evaluate real-life insurance product design from an economic point of view.

Course Contents

Module 1 : The Economic Foundations of Insurance and Risk Management (27 hours)

Pure risk and speculative risk, Expected utility and decision making under uncertainty-St Petersburg paradox, NM theory, Friedman – Savage Hypothesis and modification of Markowitz.

Insurance-Definition- Mathematical, Legal and Economic Principles-Probability, Law of large numbers, Utmost good faith, proximate cause, Insurable interest, Risk pooling and risk sharing.

Social vs. Private insurance.Reinsurance-Fundamentals, types and distribution systems.

Module 2 : Insurance and Economic Development (20 hours)

Role of insurance in Economic development-insurance and risk management, saving, financial intermediary, Economies of scale in Investment and efficiency in capital allocation. Relationamong Economic development, insurance density and insurance penetration- case study of international comparison.

Module 3 : Life and Health Insurance (27 hours)

Meaning and types of life insurance products - Motives of life insurance demand-Human Life Value principle of S.S Huebner - Selection and classification of risk- Basics of Actuarial valuations of life and health insurance premium - Underwriting- concept and mechanisms.

Life insurance in India- Historical evolution, post-reform developments, market for annuities - Distribution channels - Operational behavior of LIC - Health insurance in India.

Module 4 : Non-life or General Insurance (18 hours)

Meaning, Types of products - Basic concepts-Comprehensive, Liability, Working principles, TPAs - General insurance in India- History, Post-reform growth and developments, tariff issues. GIC of India.

Module 5: Regulatory Intervention (18 hours)

Different types of information asymmetry in Insurance market- Role and need of regulation-History of Insurance regulation in India- Insurance reforms and birth of IRDA - Performance of IRDA - Indian insurance in the Global platform-Future potential in Indian insurance business.

Basic Reading List

1. Bailey R (Ed.) (1999) Underwriting in Life and insurance, LOMA, Atlanta,
2. Bhargava, B .D (2008): *Insurance: Meaning and Principles*, Pearl Books, New Delhi
3. Bhave, S R (1970): *Saga of Security: Story of Indian Life Insurance (1870-1970)*, Life Insurance Corporation of India, Vakil and Sons, Bombay.
4. Bhole, LM (1990) *The Indian Financial System*, Tata McGraw Hill, New Delhi.
5. Bickelhaupt, D.L. (1992) *General insurance*, Irwin Inc. Burr Ridge, III.
6. Black K. J. and H.D. SKipper, In (2000) *Life and Health insurance*, Prentice Upper Saddle, River, New Jerssey.
7. Desai, G R (1973): *Life Insurance in India: Its History and Dimensions of Growth*, Mac Millan India, New Delhi.
8. Finsinger, and M.V.Pauly, (eds) (1986), *The Economic of insurance Regulation A Cross National Study*, Macmillan, London.
9. Graves EE and L. Hayes (Eds) (1998) (1999) *Mc Gill's Life insurance*, The American College, ElynMawr, .
10. Huebner S S, Kenneth Black Jr (1982): *Life Insurance*, 10th Edition, Prentice Hall, INC, Englewood Cliffs, New Jersey,
11. Skipper, Jr. H.D. (Ed.) (1998) *International Risk and insurance : An Environmental Managerial Approach* Erwin McGraw Hill, Boston.

12. Srivastava, D. C and Srivastava,S (2001) : *Indian Insurance Industry – Transition and Prospects* , New Century Publication , Delhi,

Additional Reading List

Module 1

1. Dionne.G. and S.E. Harrington (Eds.) (1997), *Foundations of Insurance Economics*, Kluwer Academic Publishers, Boston.
2. Pfeiffer I. and D.R.Klock (1974); *Perspectives on Insurance*. Prentice Hall. Inc. Englewood, Cliffs.
3. Rejda, George E (2004) : *Principles of Risk Management and Insurance* , 8th Edition, Pearson Education, Delhi.
4. Skipper, Harold D Jr and Jean Kwon (2007) : *Risk Management and Insurance: Perspectives in a Global Economy*. , Blackwell Publication, Malden.
5. Yaari ME (1995) *Uncertain Life insurance and the Theory of Consumer*, *Review of Economic Studies*, vol.32.

Module 2

1. Karl, Borch (1974): *Research Papers in Insurance Model*, Lexington Books, Massachusetts.
2. Kutty, Shashidar, K (2008): *Management of Life insurance*, Phh publishing, New Delhi.
3. Warsaw, B and Hill, R D (1986) : *The Insurance Industry in Economic Development* , New York University Press.

Module 3

1. Agarwala, A. N. (1961): *Life Insurance in India: A Historical and Analytical Study*, Allahabad Law Journal Press, Allahabad.
2. Bawa, SumninderKaur (2007): *Life Insurance Corporation of India, Impact of Privatisation and Performance*, Regal Publications, New Delhi.
3. Black, Kenneth Jr and Skipper, Harold D.Jr (1987): *Life Insurance*, 11th Edn, Englewood Cliffs, Prentice Hall, New Jersey,
4. Desai, G R (1973): *Life Insurance in India: Its History and Dimensions of Growth*, Mac Millan India, New Delhi.

Module 4

1. Benjamin B (1991): *General Insurance*, Heinemann, London

2. Gopalakrishnan, G (1994): *Insurance Principle and Practice*, Sterling Publishers, New Delhi.
3. Insurance Institute of India, General Insurance (IC- 34) Mumbai.

Module 5

1. Conant, Susan et.al (1996): *Managing for Solvency and Profitability in Life and Health Insurance Companies*, Life Office Management Association Inc, Atlanta.
2. Cummins, David J and Bertrand Vernad (2006): *Handbook of International Insurance; between Global dynamics and Local contingencies.* , Huebner International Series of Risk, Insurance and Economic Security; Springer, New York.
3. Skipper, Jr.,Harold D (1998) : *The Structure of Insurance Markets Worldwide*, International Risk and Insurance , Irwin Mc Graw Hill , Boston.

EC 203: LABOUR ECONOMICS

(Hours per semester: 110

Hours per week: 6)

Objectives

The objective of this course is to develop abilities in understanding the functioning of labour markets. It introduces students to the economics of labour market through a blend of theoretical and empirical analyses. It also deals with different aspects of the labour market such as labour organization, labour relations and labour legislations, wage and employment theory, collective bargaining theory and social security and welfare measures, etc.

Course Contents

Module I: Introduction to Labour Market (24 hours)

Nature of Labour - labour market - nature and characteristics (with special emphasis on developing countries like India) - demand for labour - theories of demand for labour (Wage Fund theory and Marginal Productivity theory) - supply of labour - supply curve of labour to the firm – short run and long run.

Module II: Employment and Unemployment (27 hours)

Employment and development – concept and measurement of unemployment in India - issues relating to employment - rationalization, technological change and modernization- rural unemployment and educated unemployment in India – India’s employment policy under the five year plans – Its evaluation – Task force on employment opportunities (2001)

Module III: Wage Determination (18 hours)

Concept of wages- - classical, neo-classical and bargaining theories of wage determination- -wage determination in different market conditions - wage and non-wage components of labour remuneration - wage differentials - wage policy in India.

Module IV: Organized Labour (27 hours)

Industrialization and emergence of unionism- collective bargaining – concept and process - the goals of organized labour – growth and relevance of trade unions in India- achievements and failures of trade union movements- industrial disputes - methods to settle industrial disputes- Collective – grievance redressal - worker’s participation in management.

Module V: State and Labour (14 hours)

Changing role of state in Indian Labour market - institutional framework – directive principles of state policy - labour legislations in India - Labour Laws (India and ILO)-Labour reforms (India and WTO)- Structural reforms and labour markets.

Reading List

1. Jetli N K(2004), India: Economic Reforms and labour Policy, New century publications, new Delhi, India
2. Punekar S D(1978), Labour Welfare, Trade Unionism and Industrial Relations, Himalaya publications
3. Dtt G,(1996), Bargaining power wages and Employment: An Analysis of Agricultural Labour Market, Indu publication, New Delhi
4. Lester.R.A (1 964), Economics of Labour (2nd Edition), Macmillian, New York.
5. Hicks J R(1932), The Theory of Wages, Oxford
6. Ramaswamy, K.V. (Ed.)(2015), Labour, employment and Economic Growth in India, Cambridge University Press, Delhi

Module I

1. Mc Cormic C B and Smith (Ed) (1968), The Labour Market, Penguin,.
2. Rees A, (1978), Economics of Work and Pay, New York ; London : Harper and Row
3. Sen A K, Employment, (1975), Technology and Development, Oxford University Press
4. Hunter and Mulvey, (1983), Economics of Labour, Macmillan,
5. Lester R A, (1964), Economics of Labour, Macmillan,
6. Bloom and Northrup (1955), Economics of Labour relations, Richard D Irvin, INC, Homewood, Illimois
7. Saxena R C(1986), Labour Problems and Social Welfare, K. Nath & co, Educational Publishers, New Kotwali, Meerut
8. Phelps W Orme (1961) Introduction to Labour Economics, McGraw-Hills Book Company, INC, New York

Module II

1. Das N, (1960), Unemployment, Full Employment and India, Asia

2. Deshpande L K, P R Brahmanand and E A G Robinson (Ed.) (1983) Employment Policy in Developing Economy, Macmillan.
3. Kannappan S (1983), Employment Problems and Urban Labour Markets in Developing Nations, University of Michigan

Module III

1. Binswange, H.P M,R Rosen, Weg (Eds)(1984) Contractual Arrangements, Employment and Wages in rural Labour Markets in Asia, Yale University Press, New Haven
2. Deshpande L K and J C Jandesara (Eds)(1970) : Wage Policy and Wage Determination in India, Bombay University,.
3. Hicks J R(1932), The Theory of Wages, Oxford,
4. Madan B K (1977), The Real Wages of Industrial Labour in India- Management Development, Institute, New Delhi,
5. Mazuman, D (1986) Microeconomics Issues of labour markets in developing countries, EDI Service Paper no.40, World Bank, Washington D C

Module IV

1. Breman, J (1996) Footloose Labour Working in india's Informal Economy Cambridge university press, Cambridge
2. Mamoria C B (1966) Labour Problems and Social Welfare in India, Kitab Mahal,
3. Punekar S D,(1978) Labour Welfare, Trade Unionism and Industrial Relations, Himalaya Publications
4. Singh V B (Eds), (1970) Industrial Labour in India- Popular Prakasham,

Module V

1. Deshpandi, S G Standing and K Deshpande (1998), Labour Flexibility in a Third world Metropolis, Common Wealth publisher, NewDelhi
2. Hauseman,S (1991) Industrial restructuring with Job Security, Harvard university Press, Cambridge
3. MHRD, GoI (1987), Sham Shak Report of the national Commission on Self employed Women and women workers in the informal sector, Ministry of human Resource Development
4. Jetli N K(2004) ,India:Economic Reforms and labour Policy, New century publications.

EC 204: LAW AND ECONOMICS

(Hours per semester: 110

Hours per week: 6)

Objectives

The course covers the descriptive, theoretical and empirical analysis of various issues in the law and economics. This includes how the legal aspect influences the economic behavior and how economic tools can be used for the better understanding of law etc. It covers the method of law and economics, property rights, Contract, accidents and liabilities, crime and punishment, the legal procedures of dispute resolution. The course should enable the students to analyse the legal issues in connection with economic situation concretely.

Course Contents

Module 1 Method of Law and Economics (20 hours)

Economic Analysis of Law: Why lawyers study economics and economists study law – Law in L&E and Economics in L&E, Positive and normative approach of L&E, Criteria for analyzing legal and economic issues – Efficiency criteria – Pareto, Kaldor-Hicks and Nash Equilibrium, Fairness Criteria – Markets and efficiency and Market failure – Coase Theorem – Civil Law and Common Law traditions – Indian Court Structure – Nature of legal disputes, evolution of legal rules

Module 2 Economic Analysis of Property Rights (16 hours)

The Nature and Function of Property Rights: the definition – emergence – incentives – enforcement of property rights – Property Law and Coase Theorem – Normative Coase and Hobbes Theorem - Acquisition and Transfer of Property – Limited and Divided Ownership – Public Property – Eminent domain and regulation of property

Module 3 Economic Analysis of Contract and Consumers (17 hours)

Complete and Incomplete Contracts: Bargaining theory – Economic Theory of Contract – Remedies as Incentives - The Elements of Valid and Invalid Contracts, Contracts and Efficient Exchange – Performance of Contract and Breach – Duress - mutual assent – Fraud Mistake – Disclosure - Efficient Breach Model – Specific Performance, Self-Enforcement of Contracts

Module 4 Economic Analysis of Accidents and Product Liability (17 hours)

Liability and Deterrence: Basic Theory – Unilateral and Bilateral Accidents, Levels of Care and Activity – Victims Are Strangers to Firms, Victims Are Customers of Firms,

Extensions of the Analysis of Deterrence - Problems in the Negligence Determination, Implications of Findings of Negligence, Deterrent Rules of Negligence and Liability, Risk-Bearing, Risk Aversion and Insurance

Module 5 Economic Analysis of Crime and Punishment (20 hours)

Distinguishing Crimes and Torts - Property Rules, Liability Rules, and Criminal Sanctions, The Economic Model of Crime - The Offender's Decision to Commit a Crime and the Supply of Offenses, Does punishment deter crime - Optimal Punishment, The Optimal Fine, Gain Versus Harm-Based Fines, Fines and Imprisonment, Economics of the Death Penalty, Constitutional Issues, The Bail System, Private Protection, Plea Bargaining

Module 6 Legal Structures of Business and Economic Organizations (20 hours)

Corporations as Legal Entity – Governance of Capital, Shares, Debentures through Law – Legal Structure of Economic Institutions: RBI, IRD, MRTP, Competition Commission, SEBI – Rules of Merging and Acquisition – Distributive Justice under Property, Contract and Liability – Efficiency and Equity Principal for Taxation Law – Centre State Relations and Legality for Efficiency – Trade Agreements : WTO, GATT, TRIPS AND TRIMS, FEMA, Regional Trade Agreements

Basic Reading List

1. Bouckaert, B and G De Geest (1999) Encyclopedia of Law and Economics, Vol. 1-5, Edward Elgar
2. David Friedman (2000) Law's Order: What Economics has to do with Law and Why It Matters, Princeton University Press. New Jersey
3. Posner, Richard A (1998) Economic Analysis of Law, (5th edition) Little Brown, Boston
4. Robert D Cooter and Thomas Ulen (2012) Law and Economics, Addison Wesley-Pearson
5. Seervai H M (1991) Constitutional Law of India, Vol. 1-3 NM Tripathi
6. Steven Shavell (1987) Economic Analysis of Accident Law” Harvard University Press: Cambridge MA
7. Steven Shavell (2004) “Foundations of Economic Analysis of Law, Harvard University Press: Cambridge MA
8. Thomas J Micely (2004) “Economic Approach to Law”, Stanford University Press
9. Massey I T (1995) Administrative Law, Eastern Book Company
10. Yoram Barzel (1997) “Economic Analysis of Property Rights”, Cambridge University Press

Additional Readings List (Articles)

1. Becker, Gary (1968) "Crime and Punishment: An Economics Analysis," *Journal of Political Economy*, Vol. 76, pp. 169-217.
2. Brown, John (1973) "Toward an Economic Theory of Liability," *Journal of Legal Studies*, Vol. 2, pp. 323-349.
3. Calabresi, Guido (1961) Some Thoughts on Risk Distribution and the Law of Torts, *The Yale Law Journal*, 70, 4, 499-553
4. Calabresi, Guido, and A. Douglas Melamed (1972) "Property Rules, Liability Rules, and Inalienability: One View of the Cathedral," *Harvard Law Review*, Vol. 85: 1089-1128.
5. Coase, Ronald (1960) "The Problem of Social Cost," *Journal of Law and Economics*, Vol. 3, pp. 1-44.
6. Coleman, Jules (1980) "Efficiency, Utility, and Wealth Maximization." *Hofstra Law Review* 8(3): 509-51.
7. Cooter, Robert (1985) "Unity in Torts, Contracts, and Property: The Model of Precaution," *California Law Review*, Vol. 73, pp. 1-51.
8. Cooter, Robert and Daniel L. Rubinfeld (1989) "Economic Analysis of Legal Disputes and Their Resolution," *Journal of Economic Literature*, Vol. 27, pp. 1067-1097.
9. Demsetz, Harold (1967) "Toward a Theory of Property Rights," *American Economic Review*, Vol. 57, pp. 347-359.
10. Donohue, John J. III and Steven D. Levitt (2001) "Legalized Abortion and Crime," *Quarterly Journal of Economics* 116(2): 379-420.
11. Dworkin, Ronald (1980) "Why Efficiency: A Response to Professors Calabresi and Posner." *Hofstra Law Review* 8(3): 563-90.
12. Farmer, Amy and Dek Terrell (2001) "Crime versus Justice: Is There a Trade-off?" *The Journal of Law and Economics*, Vol. XLIV (October): pp. 345- 366.
13. Friedmann, Daniel (1989) "The Efficient Breach Fallacy," *Journal of Legal Studies*, Vol. 18, pp. 1-24.
14. Gilbert, Richard and Oliver Williamson (1998) "Antitrust Policy," in *The New Palgrave Dictionary of Economics and the Law*, P. Newman, ed., Vol. 1, pp. 82-88.
15. Hardin, Garrett (1968) "The Tragedy of the Commons" *Science* 162: 1243-48.

16. Hirshleifer, Jack (1971) "The Private and Social Value of Information and the Reward to Inventive Activity," *American Economic Review*, Vol.61, pp. 561- 574.
17. Klein et al. (2002) "Economics of Copyright 'Fair Use' in a Networked World." *American Economic Review*. May
18. Kronman, Anthony (1978) "Mistake, Disclosure, and Information," *Journal of Legal Studies*, Vol. 7, pp. 1-34.
19. Landes, William (1971) An Economic Analysis of Courts, *Journal of Law and Economics*, 14, 1, 61-107
20. Landes, William and Richard Posner (1985) "A Positive Economic Theory of Products Liability," *Journal of Legal Studies*, Vol. 14, pp. 535-567.
21. Levitt, Stephen (2004) "Why Crime Fell in the 1990s: Four Factors that Explain the Decline and Six That Do Not" *Journal of Economic Perspectives* 18(1): 163-190
22. Miceli, Thomas J. and Kathleen Segerson (2007) *The Economics of Eminent Domain: Private Property, Public Use, and Just Compensation*, Foundations and Trends in Microeconomics, Vol. 3, Issue 4.
23. Murthy, Ramana and Siddik Rabiyyath (2010) Disposal Rates, Pendency and Filing in Indian Courts: an Empirical Study of the Two States of Andhra Pradesh and Kerala, in Babu, P G, Thomas Eger, A V Raja, Hans Bernd Schafer and T S Somasekar (eds.) *Economic Analysis of Law in India: Theory and Application Oxford University Press*, New Delhi
24. Posner, Richard (1977) "Gratuitous Promises in Economics and Law," *Journal of Legal Studies*, Vol. 6, pp. 411-426.
25. Posner, Richard A. (2005) "Intellectual Property: The Law and Economics Approach" *JEP* 19(2): pp. 57-73.
26. Posner, Richard and Andrew Rosenfield (1977) "Impossibility and Related Doctrines in Contract Law: An Economic Analysis," *Journal of Legal Studies*, Vol. 6: 83- 118.
27. Priest, George (1977) "The Common Law Process and the Selection of Efficient Rules," *Journal of Legal Studies*, Vol. 6, pp. 65-82.
28. Rubin, Paul (1977) "Why is the Common Law Efficient?" *Journal of Legal Studies*, Vol. 6, pp. 51-63.
29. Shavell, Steven (1980) "Damage Measures for Breach of Contract," *Bell Journal of Economics*, Vol. 11, pp. 466-490.

30. Stigler, George (1970) "The Optimum Enforcement of Laws," *Journal of Political Economy*, Vol. 78, pp. 526-536.

EC 205: MATHEMATICAL ECONOMICS

(Hours per semester: 110

Hours per week: 6)

Objectives

The objectives of this course are: (1) to help the students to study the nature and extent of relationships among economic variables by using mathematical tools, and (2) to apply these tools in solving the economic and business problems.

Course Content

Module 1 Theory of Consumer (25 hours)

Estimation of price, income and cross elasticities, Utility maximization- Marshall, Hicks and Samuelson, ordinary and compensated demand functions, direct and indirect utility functions, Slutsky equation- income, substitution, and price effects, Linear expenditure systems.

Module 2 Theory of Production (30 hours)

Homogenous and non-homogenous Production functions, Properties of linear homogenous production functions, Euler's Theorem, output elasticity and elasticity of substitution, Producer equilibrium- output maximization, cost minimization and profit maximization, cost functions and cost curves, properties of Cobb-Douglas, CES and VES production functions.

Module 3 Price and output Determination (25 hours)

Equilibrium under discriminating monopoly, Multi plant model, Cournot and Stackelberg models, Price leadership model, Baumol's static model of sales maximization, Williamsons model (illustrations with examples).

Module 4 Linear Programming and Game Theory (30 hours)

Dual theorem and its uses, slack and surplus variables, Maximisation simplex method, applications of linear programming, Basic concepts in game theory, maximin and minimax strategies, saddle point solutions, Two person zero sum game with examples, Solution with mixed strategies, Cooperative and non cooperative games (illustrations with examples necessary).

Reading List

1. Henderson, J. M. and R.E. Quandt (1980), Microeconomic Theory: A Mathematical Approach, McGraw Hill, New Delhi.
2. Koutsoyiannis, A. (2011), Modern Microeconomics, Macmillan Press, London.
3. Chiang, A.C. (1986), Fundamental Methods of Mathematical Economics, Mc Graw Hill, New York.
4. Mustafi, C. K. (1992), Operations Research: Methods and Practice, Wiley Eastern, New Delhi.
5. R.G.D.Allen, Mathematical Economics, Manmillan, London

EC 206: URBAN PLANNING

(Hours per semester: 110

Hours per week: 6)

Objectives

The important objective of this course is to introduce the discipline of planning and planning history; to expose planning theory and practice; and to make aware of the institutional mechanism involved in planning and implementation process. After studying this course students should be able to understand the planning process, theory and practice and its role in planning of cities; appreciate the role of historical developments in planning and its evolution and trace these influences to the current situation; understand the institutional mechanisms involved in urban planning and to develop capacity to understand multiple often conflicting factors to be balanced in planning for an urban area

Course Contents

Module I: Planning- History (20 hours)

Town planning history – Ancient Egypt, Mesopotamia and Indus valley. Greece and Rome, Medieval, Renaissance, Industrial and post industrial age, Colonial cities. Town planning in India. Contribution of individuals to city planning: Patrick Geddes, Lewis Mumford, Le-Corbusier, C.A.Doxiadis, Clarence Stein, Peter Hall etc.

Module II: Theories of City planning (22 hours)

Theories of city development including Concentric Zone Theory, Sector Theory, Multiple Nuclei Theory and other latest theories; Ebenezer Howard's Garden City Concept; and Green Belt Concept; City as an organism: a physical, social, economic and political entity; Emerging Concepts: globalcity, inclusive city, safe city, etc.; City of the future and future of the city; Shadow cities, divided cities; Models of planning

Module III: Urbanisation and Growth of Towns (22 hours)

Definition and process of Urbanisation, Urban- Rural Relationship, hierarchy of cities- urban growth and system of cities, growth of metropolitan cities and mega cities and its impact on natural development, with focus on the issues in metropolitan management and governance and possible alternative strategies to metropolitan growth control – development of new towns, and small and medium town development.

Module IV: Urban Planning Policy (26 hours)

Urban policy and planning – origin , development and goals of planning- nature of urban policy - Neighbourhoods in planning, Birth and development of the neighbourhood idea, The Indian neighbourhood, Urban renewal and its aftermath -rise of advocacy planning- role of NGOs in planning- Urban social movements Post-war developments –masterplan to structure plan and beyond – urban modelling – political influences and planning -nature of Urban programmes by international agencies like World Bank, UNCHS etc.

Institutional arrangements of urban planning with special reference to India– edicts, laws–New Towns and IDSMT, regional contexts of metropolitan plans, - Proposals of National Commission on Urbanization

Module V: Urban Planning Practice and Process (20 hours)

Planning system in India, Master plan, Structure plan, Detailed development plans, Comparison of planning systems in UK & USA with that of India.

Planning Surveys, Different types used for data identification for plan preparation, Aerial photography and remote sensing techniques in planning

Reading List

1. AEJ Morris (1979): History of Urban Form from Pre-history to Renaissance, John Wiley and Sons, New York
2. Ministry of Urban Affairs & Employment, Govt. of India, New Delhi: Urban
3. Development Plans Formulation & Implementation Guidelines.
4. Aidan Southall (1998) – The City Time and Space, Cambridge University Press, Cambridge
5. H Carter (1972): The study of Urban Geography, Edward A Old, London.
6. F S Chaplin (1965): Urban Landuse Planning, Higg & Brothers, New York.
7. K V Sundaram(Ed) (1985): Geography & Planning”, Concept Publishing Co., New Delhi.
8. Jacob S. Siegel (2002): Applied Demography: Applications to Business, Government, Law and Public Policy, Academic Press, San Diego

9. Dr. Ashal A. Bende & Mrs. Tara Kanitkar (1980): Principles of Population Studies, Himalaya Publishing House, Bombay.
10. Dand M. Heu (1978): Society & Population, Eastern Economy Edition
11. Arthur J. Gallion (1993): Urban Pattern, John Wiley & Sons
12. Le Corbusier (2000): The City of Tomorrow, Dover Publications Inc.
13. Peter Hall (1978): Urban and Regional Planning, Routledge
14. Reading material on Urban Planning – ITPI New Delhi.
15. Kaiser Edward J., et.al.,(1995): Urban Landuse Planning, 4th (ed) Urbana, University of Illinois Press
16. Bola Ayeni (1979): Concepts and Techniques in Urban Analysis, Croom Helm, London.

OPTIONAL PAPERS IN FOURTH SEMESTER

EC 207: ADVANCED ECONOMETRICS

(Hours per semester: 110

Hours per week: 6)

Objectives

The objectives of this course are: (1) to develop analytical skills needed to work successfully with real economic data and (2) to make the students understand empirical research techniques thus equipping them in the formulation, specification and estimation of econometric models.

Course Contents

Module I: Dynamic Econometric Models (20 hours)

Autoregressive and Distributed Lag Models -Koyck Model, Nerlove's Partial Adjustment Model, Cagan's Adaptive Expectations Model - Instrumental Variables - Detecting Autocorrelation in Autoregressive models - Almon's Approach to Distributed Lag Models.

Module II: Estimation of Simultaneous Equation Models (26 hours)

Simultaneous Equation Models - Structural and Reduced form Equations, Simultaneous Equation Bias, Instrumental Variable Estimation - Identification Problem, The Rank and Order Condition, Methods of estimating simultaneous equation system, Recursive methods and OLS - Indirect Least Squares, 2SLS, 3SLS, FIML estimation techniques - Durbin – Wu – Hausman Test.

Module III: Introduction to Non Stationary Time Series (24 hours)

Stationarity and Non stationarity - Stationary time series and Non stationary time series Deterministic Trend- Difference Stationary and Trend-Stationary - Spurious Regressions -Tests of Non stationarity - Graphical Tests & Augmented Dickey-Fuller tests -Cointegration& Error Correction Model (ECM).

Module: IV Time Series Econometrics : Forecasting (20 hours)

AR, MA and ARIMA Modelling of Time Series Data - The Box- Jenkins (BJ) Methodology -Vector Auto Regressive (VAR) and Causality - Measuring Volatility – The ARCH and GARCH Model

Module V: Introduction to Panel Data Models (20 hours)

Panel Data Set – Example to investigate dynamics - Fixed Effects Regressions –
Withingroups fixed effects, First differences fixed effects - Random Effects Regressions -
Assessing the appropriateness of fixed effects and random effects estimation.

Basic Reading List

Module I

1. Dougherty, Christopher (2011). Introduction to Econometrics, Oxford University Press, Newyork.
2. Gujarathi, D, &Sangeetha, N. (2007). Basic Econometrics (4thed) New Delhi: McGraw Hill.

Module II

1. Gujarathi, D.&Sangeetha, N. (2007). Basic Econometrics (4thed) New Delhi: McGraw Hill.
2. Woolridge, J. M. (2007). Introductory Econometrics: A Modern Approach (3rded.). New Delhi: Akash Press.

Modules III, IV & V

1. Dougherty, Christopher (2011). Introduction to Econometrics, Oxford University Press, Newyork.
2. Gujarathi, D,&Sangeetha, N. (2007). Basic Econometrics (4thed) New Delhi: McGraw Hill.
3. Woolridge, J. M. (2007). Introductory Econometrics: A Modern Approach (3rded.). New Delhi: Akash Press.

Additional Reading List

1. Amemiya, T.(1995). Advanced Econometrics, Harvard University Press.
2. Baltagi, B. H. (1998). Econometric Analysis of Panel Data, New York: Springer.
3. Enders, Walter (2014). Applied Econometric Time series (4th edition) Wiley E-Text Student Package
4. Goldberger, A. S. (1998). Introductory Econometrics, Harvard University Press Cambridge Mass
5. Greene, W. H. (1997). Econometric Analysis, New Delhi, Pearson.
6. Johnston, J. (1991). Econometric Methods, NewYork, McGraw Hill.

7. Kennedy, I. (1998). A Guide to Econometrics (4th edition) MLT Press, New York
8. Kmenta, J. (1997). Elements of Econometrics (Reprint Edition), University of Michigan Press, New York.
9. Krishna, K. L. (ed) (1997). Econometric Application in India, Oxford University Press, New Delhi
10. Maddala (ed) 1993. Econometric Methods and Application Aldershot, U K
11. Pindyck and Rubinfeld (1976) Econometric Models and Economic Forecasts, McGraw Hill Kogakus Tokyo

EC 208: DEMOGRAPHY

(Hours per semester: 110

Hours per week: 6)

Objectives

The course covers the dynamics of population growth, theoretical side of population, demographic data sources and the link between demography and socio-economic development of a society. The course should enable the students to understand the theoretical, empirical and policy implications of demographic issues in a developing country like India

Course Contents

Module I: Introduction to Demography (20 hours)

Evolution of demography; Meaning, subject matter and importance of Demography. Concepts of population change and composition of population. Sources of Demographic data: Census, meaning, characteristics, importance, methods, problems; Sample surveys; Registration.

Module II: Population Dynamics (28 hours)

Fertility-Meaning; Concepts-CBR, ASBR, GFR, TFR, GRR, NRR; Factors affecting fertility; Theories of fertility; Mass education and fertility decline-Co-operation, Inequality and the family (Amartya Sen).

Mortality -Meaning; Concepts –CDR, ASDR, IMR, CMR, MMR, NMR, NNMR, CSDR, SDR. Factors affecting Mortality; Life tables-construction and uses. Demographic Dividend and Age pyramids. Concept of stationary, stable and quasi - stationary population.

Nuptiality-Meaning; Concepts-CMR, SMR, GMR; Determinants of Nuptiality; Marital Dissolution.

Migration- meaning, measurement. Urbanisation- concept and measurement

Module III: Theories of population (20 hours)

Malthusian Theory; Optimum theory; Theories of Demographic Transition-views of C. P. Blacker, Boserup. Biological Theories of Population; Socio- economic theories of population-views of Marx and Leibenstein; Approaches of Meadows, and Simon.

Module IV: Demographic Data Base in India (26 hours)

Census-Nature of information collected—1991,2001, 2011; NFHS-I, II and III; District Level Household Survey(DLHS); Sample surveys India; Registration system in India. Methods

of measurement of population growth; Population Projection-Meaning, Importance and methods. Evolution of population policy in India-Shift from population control to reproductive and child health approach, National Population Policy 2000; Tasks before the National Population Commission.

Module V: Demographic Issues in India (16 hours)

Rural and urban demographics- Population, economy and environment linkages– Population aging in India –Causes, trends, issues and consequences.

Basic Reading List

1. Bouge, D.J. (1971), Principles of Demography, John Wiley, New York.
2. Bhende Asha A. And Tara Kanitkar, Population of Population Studies, Himalaya Publishing House.
3. Chiang, C.L. (1974), Life Tables and Mortality Analysis, WHO, Geneva.
4. Novell, C., Methods and Models in Demography, Bellhaven , Washington D.C.
5. NFHS Report.
6. Preston, Samuel H., Heuveline, Patrick, and Guillot, Michel (2001) Demography: Measuring and Modeling Population Processes. Oxford: Blackwell Publishers.
7. Sharma, Rajendra K., Demography and Population Problems, Atlantic Publications.
8. Shyrock, H., et al (1973), The Methods and Materials of Demography, U.S. Deptt. Of Commerce Press, London.
9. Srinivasan, K. And A. Shariff (1998), India: Towards Population and Demographic goals, Oxford University Press, New Delhi.

Supplementary Reading List

1. Agarwal, S.N. (1985), India's Population Problems, Tata McGraw Hill, Mumbai.
2. Bose, A., (1996), India's Basic Demographic Statistics, B. Publishing Corporation, New Delhi.
3. Chaubey, P.K. (2000), Population Policy in India, Kanishka Publishers .
4. Chenery, H. And T.N. Srinivisan (Eds)(1989), Handbook of Development Economics.
5. Coale, A.J. and E.H. Hoover(1958), Population Growth and Economic Development in low Income Countries –A Case Study of India's Prospects, Princeton University Press, Princeton.

6. Gulati, S.C. (1988), Fertility in India: An Econometric Study, Sage Publications, New Delhi.
7. Jacob S. Siegel and David A. Swanson (2004): The Methods and the materials of Demography, Second Edition, Elsevier Science. USA.
8. John weeks (2005): Population: An introduction to concepts and issues, Wordsworth Learning. Singapore 9th edition.
9. Pathak, K.B. AND F. Ram (1998):Techniques of Demographic Analysis, Himalaya Publishing House.
10. Simon, J. (1992), Population and Development in Poor Countries, Princeton University Press, Princeton.
11. Srinivasan, K. (1998): Basic Demographic Techniques and Applications, Sage Publications.

EC 209: ECONOMICS OF INFRASTRUCTURE

(Hours per semester: 110

Hours per week: 6)

Objectives

The role and significance of infrastructure in a country's development need to be thoroughly examined. The paper 'Economics of Infrastructure' deals with the various segments of infrastructure and its contribution as growth stimulants. The content of the paper expose the student wholly to the issues involved in the development of infrastructure in developing countries like India.

Course Contents

Module 1: Introduction (18 hours)

Infrastructure and economic development- Economic and social infrastructure- Characteristics of public utilities- The peak-load, off-load problem, Dual Principle Controversy- Economies of scale of joint supply- Methods of pricing in public utilities; Cross subsidization, free prices- Problem of Equity Vs Efficiency.

Module 2: Transport Economics (18 hours)

The structure of Transport Costs and Location of Economic Activities. Demand for transport- Models of Freight and passenger Demand- Pricing principles -Role of government in transport sector- Ports and Maritime Economics -Special problems of modes of transport in Indian context;

Module 3: Communications (20 hours)

Characteristics of postal services; Telephone services; coverage, traffic, pricing- Rate making in telephone utilities; principles of decreasing cost in telephone industry- Trends and growth in courier, mobile and cellular services in India; Internet connectivity and IT enabled services with special reference to developing economies-Technology and communication Policy in India.

Module 4: Energy and Water (26 hours)

Forms of energy and its primacy in economic development- Energy ratios as indices of economic development-Sustainability concerns and effect of energy shortages- The relative economics of thermal, hydel and nuclear power plants -Energy modelling - Issues in renewable

and non-renewable sources of energy- Energy policy of India-Water supply, management and conservation; rural and urban scenario.

Module 5: Social Infrastructure (28 hours)

Concept of social infrastructure; models of public and private infrastructure management; PPP models -Pricing of social services- Emerging role of social services in the Indian context- Education and manpower planning; problem of education financing and human resources development in India- Education policy of India- economic dimensions of health care- demand and supply of health care; financing of health care and resource constraints; institutional issues in health care delivery-Challenges in health care- poverty, malnutrition, illiteracy, gender inequality; global and Indian context-Health care policies in India.

Basic Reading List

1. Dash, L.N.(2007), *Economics of Infrastructure: Growth and Development*. Regal Publications (ISBN 8189917111).
2. Das, R.C.(2017), *Social, Health and Environmental Infrastructures for Economic Growth*, in 'Advances, Finance and Accounting', IGI Global Business Reference Book Series, USA (ISSN 2327-5677).
3. Blaug M (1972): 'Introduction to Economics of Education', Penguin, London.
4. Henckel, T. and McKibbin, W. (2010) 'The Economics of Infrastructure in a Globalized World: Issues, Lessons and Future Challenges', 2010-39, Australian National University, Centre for Applied Macroeconomic Analysis.
5. Ahuja, A.K. (2008), *Economics of Education*, Authors Press. 1st edition.

Additional Reading List

1. Tilak, J.B.G (1994): 'Education for Development in Asia', Sage Publications, New Delhi.
2. Christine Kessides (1993) *The Contributions of Infrastructure to Economic Development: A Review of Experience and Policy Implications*, World Bank Discussion Paper No. 213, IBRD, The World Bank, Washington D.C.
3. John M. Cockburn, Yazid Dissou, Jean-Yves Duclos, Luca Tiberti (2013), *Infrastructure and Economic Growth in Asia*, in 'Economic Studies in Inequality, Social Exclusion and Well-Being', Springer International Publishing (ISBN 3319031376, 9783319031378).

4. OECD (2007a) Infrastructure to 2030 – Volume 1 Telecom, Land Transport, Water and Electricity, OECD.
5. OECD (2007b) Infrastructure to 2030 – Volume 2 Mapping policy for Electricity, Water and Transport, OECD.
6. Hanushek, E.A. & Woessmann, L. (2015), *The Knowledge Capital of Nations- Education and the Economics of Growth*. MIT Press.
7. Mark V. Pauly, Thomas G McGuire, Pedro Pita Barros, (2011), ‘Handbook of Health Economics’, Volume 2 ,Business & Economics.
8. Saith Ashwani, Vijayabaskar, M. (2005), *ICTs and Indian Economic Development: Economy, Work, Regulation*. SAGE Publications, New Delhi.
9. Vikram Singh (2009), *Impact of Information and Communication Technology on Public Life*. University Science Press, New Delhi.
10. Eduardo Engel, Ronald D. Fischer, Alexander (2014), *The Economics of Public-Private Partnerships*, Cambridge University Press. (ISBN 978-1-107-03591-1).

EC 2010: INDUSTRIAL ECONOMICS

(Hours per semester: 110

Hours per week: 6)

Objectives

The course is designed to use theoretical models to understand industries and regulatory decision making and so students should expect to use diagrams and some basic mathematical models. It also provide guidelines to urge through knowledge to the students on the basic issues in the industrial development of India. In addition, course aims for the students acquire fair knowledge of international experience of industrial progress.

Course Contents

Module I: Basics and Scope of Industrial economics (15 hours)

Nature and scope – Structure Conduct Performance (SCP) paradigm. Market Power - Market concentration and its relationships .Additional cost concepts: switching costs, transaction costs. Asset specifying and holding up problems.

Module II: Industrial Decisions (20 hours)

Pricing decisions and its strategies - pricing policies: Administered pricing and LRMC based tariffs. Investment decisions- risk and uncertainty in project appraisal - OECD and UNIDO approaches to investment decisions.

Module III: Industrial Location and Regional Development (15 hours)

Determinant of Industrial Location- Theories of Industrial location- Weber, August Losch, Sergent Florence – Regional Growth and Regional imbalances - SEZ

Module IV: Industrial Labour (20 hours)

Structure of Industrial labour - Employment dimensions of Indian industry – industrial legislation, industrial relations, exit policy and social security- wage and problems of bonus – Industrial Labour: roblems, policies and reforms in India- unorganized labour market.

Module V: Industrial Finance (15 hours)

Importance of industrial finance- Sources: Owned, external and other sources of fund- Indian Industrial Finance: IDBI, IFCI, SFCs, SIDC, Commercial and cooperative banks, share market, insurance companies, pension funds, NBFIs etc.

Module VI: Industrial Policy (25 hours)

Public sector enterprises in India: efficiency, productivity and performance constraints - Industrial Policies (from 1948 to till now). Regional disparity and Economic plans – Pande committee, Wanchoo Committee -Govt. policy towards foreign capital- industrial growth and environmental preservation, pollution control policies.

Reading List

1. Barthwal, R.R, Industrial Economics, Wiley Eastern Ltd., New Delhi, 1985
2. Ahluwallia I J , Industrial Growth in India , Oxford University Press, New Delhi, 1985
3. Deepak Nayyar, Industrial Growth And Stagnation. Oxford University Press, 1994.
4. Deepak Nayyar, Trade and Industrialisation, Oxford University Press, New Delhi, 1977.
5. Desai B: Industrial Economy In India, Himalaya Publishing House, Mumbai, 1999.
6. Dilip Mookherjee, Indian Industry Policies and Performances, Oxford University Press 1995.
7. Divine, P.J, Jones, R.M, Lee, N, and Tyson, W.J., An Introduction To Industrial Economics, George Allen And Unwin Ltd., London, 1974.
8. Francis Cherunilam, , Industrial Economics : Indian Perspective , Himalaya Publishing House, Mumbai, 1994.
9. Isher Judge Alhuwalia, Industrial Growth In India, Oxford University Press, New Delhi,1985.
10. Sharma, A.K, Industrial Economics, Anmol Publication Pvt Ltd, New Delhi,2006
11. Stephen Martin, Advanced Industrial Economics, Basic Blackwell, 1993.
12. Paul R Ferguson & Glenys J Ferguson, Industrial Economics: Issues and Perspectives (second edition), New York University Press, Washington square, New York 1994
13. Dr.Renjana Seth, Industrial Economics, AneBooks Pvt. Ltd, New Delhi ,2010
14. Uma Kapila ,Indian Economy : Performance and Policies (14th edition),Academic Foundations 2014

EC 2011: WELFARE ECONOMICS

(Hours per semester: 110

Hours per week: 6)

Objectives

Evaluation of normative significance of economic events and issues forms the framework of welfare economics, branches of economics such as public finance, cost-benefit analysis and economics of government policy use welfare economic criteria as their foundation.

Course Contents

Module 1 : Introductory Welfare Economics (22 hours)

Concerns of welfare economics – value judgments in welfare economics - positive or normative? - concept of social welfare – different welfare criteria - the welfare assumptions behind GDP and NNP - individual and social welfare - determination of individual welfare: goods - determinants of social welfare: individual utilities.

Module 2 : Pre – Paretian Welfare Economics (20 hours)

Benthamite approach to aggregate Welfare - optimum resource allocation and welfare maximization - assumption of uniform income - utility functions of individuals - consumer's surplus and tax-bounty analysis - the neoclassical welfare economics - Marshall and Pigou.

Module 3 : Market Efficiency, Public Goods And Externalities (28 hours)

Welfare properties of market exchange – the 2X2X2 general equilibrium model - competitive equilibrium of an exchange economy - the first and second fundamental theorems of welfare economics - uncertainty in exchange – symmetric uncertainty - asymmetric information - Coase theorem and liability rules.

Public goods - public goods model - private financing of public good - free rider problem - the Wicksell – Lindahl tax system - fixed tax sharing and majority voting - the demand revealing tax scheme.

Divergence between private and social costs - problems of non-market interdependent-externalities of production and consumption - external economies and diseconomies.

Module 4: Welfare criteria (22 hours)

The Pareto- optimality criterion – Kaldor-Hicks Compensation Criterion – Scitovsky's double compensation criterion – Bergson's Social welfare function - Rawls' theory of social justice –Arrow's Impossibility theorem - reactions to Arrow's impossibility theorem.

Module 5: Social Choice (20 hours)

Social choice and individual Values – social interdependencies - external effects - Sen's contribution to welfare economics – the capability Approach - collective choice and social welfare – social choice and political decision-making -the economics of happiness and capability.

Reading List

1. Florio Massimo, (2014), Applied welfare economics: Cost benefit analysis of projects and policies. Routledge, London and New York.
2. Allan M Feldman and Serrano Roberto, Welfare economics and Social choice theory, Springer; 2nd ed. 2006 edition (23 December 2005)
3. Yew- Kwang Ng, Welfare Economics - Towards a more complete analysis, Palgrave Macmillan; 2004 edition (19 December 2003)
4. Luigino Bruni, Flavio Comim and Maurizio Pugno,p (Ed.) Capabilities and happiness, Oxford University Press, Published in 2008 page no 16 – 27
5. Sen Amartya, Collective Choice and Social Welfare, Penguin; Expanded edition edition (10 February 2017)
6. Koutsoyiannis (1997), Modern Microeconomics, Macmillan, London.
7. Baumol, W. J. (Ed.) (2001), Welfare Economics, Edward Elgar Publishing Ltd. U.K.
8. Nicholas, B. (Ed.) (2001), Economic Theory and the Welfare state, Edward Elgar Publishing Ltd., U. K.
9. Myint, H. (1948), Welfare Economics, Macmillan, London.
10. Pigou, A. C. (1962), The Economics of Welfare (4th Edition) Macmillan.
11. Dominick Salvatore, (2002) Microeconomics Theory and ApplicationsOxfordUniversity Press, New York, 2003.
12. Arrow, K. J. (1951), Social choice and Individual Values, Yale University Press,New Haven

EC 2012: WOMEN AND DEVELOPMENT

(Hours per semester: 110

Hours per week: 6)

Objectives

The objectives of this course are: (1) to interpret economic development policy concerns and debates from a feminist economics perspective, (2) to evaluate various popular schemes to reduce gender inequalities and promote women's well-being in developing countries especially India, (3) to introduce the role of women in the development process and the multiple dimensions of the role of women in the production process of the economy, and (4) to gain a critical perspective and knowledge of how gender matters in development economics.

Course Contents

Module 1: Introduction (20 hours)

Key concepts of women's studies –Feminist Economics –The Household – Power and Empowerment -Women in patriarchal and matriarchal societies and structures-patrilineal and matrilineal systems and relevance to present day society in India- Economic basis and functioning of patriarchy in developed and LDCs, particularly India - Gender bias in the theories of value, distribution, and population

Module 2: Women in Development (18 hours)

WID approaches - Welfare – equity - anti-poverty – efficiency – empowerment - critiques of efficiency - Gender planning frameworks and tools–Gender inequality indices: GII, MPI, WEIA, SIGI, GDI, GEM -Gender Inequalities in India– ‘Towards Equality’, Shramshakti - Gender and national planning – ‘Women's role in the planned economy’ - Five year plans – SAP - liberalization.

Module 3: Women in Household (17 hours)

Productive and unproductive work – visible and invisible work - households as a decision-making unit -The triple role of women -Resource Control and Bargaining Power - property rights - access to and control over economic resources – Nutrition - Vulnerability to Violence and Conflict -Sexual and Reproductive health - Education.

Module 4: Women and Social Security (28 hours)

Entitlement in ensuring economic independence and risk coverage - access to credit and insurance markets - Role of voluntary organizations - Self help groups in providing social

security - Effectiveness of collective bargaining - Review of legislation for women's entitlement protection of property rights - Schemes for safety net for women- Need for female labour unions; affirmative action for women and improvement in their economic and social status -Gender Mainstreaming in development policies - Gender sensitive governance - Gender Budgeting - Democratic decentralization (panchayats) and women's empowerment in India – The Kudumbashree experience in Kerala.

Module 5: Challenges to Women and Development (27 hours)

Demographic imbalance of female population: Age structure, Mortality rate, and Sex ratio — Missing Women - Factors affecting female entry in labour market: Wage differentials in agriculture, non-agriculture rural activities, informal sector, cottage and small scale industries, organized industry and services sector – occupational segregation, wage disparity, housewifization, feminization, flexibility and casualization - Ecological and Environmental concerns – Ecofeminism - Challenges pose by Globalizing social order

Reading List

Module I

1. Bonnie G Smith (2013): Women's Studies: The Basics. London: Routledge.
2. Beneria, Lourdes, Günseli Berik, and Maria Floro. 2015. Gender, Development and Globalization: Economics as if all People Mattered. Second Edition. Routledge, London.
3. Kabeer, N. (1994), Reversed Realities: Gender Hierarchies in Development Thought, Kali for Women, New Delhi.
4. Beneria, L. and M. Roldan (1987): The Crossroads of Class and Gender. Chicago: University of Chicago Press.
5. Mies, M. (1986/1998): Patriarchy and Accumulation on a World Scale: Women in the International Division of Labour, Zed books, London.
6. Sen, G. and K. Brown, (1985): Development, Crises and Alternate Visions, Monthly Review Press, New York.
7. Bettio, Francesca and Alina Verashchagina (2008) Frontiers in the Economics of Gender, Routledge: London

Module 2

1. World Bank. (2012). Gender Equality and Development: World Development Report 2012. Washington, D.C: The World Bank. Overview, pp. 2-21.

2. Irene Tinker.(1990): Persistent Inequalities: Women and world development,New York: Oxford University Press
3. Government of India (1987): Shram Shakthi, Report of the National Commission on Self-employed Women and Women works in the Informal Sector, Ministry of Human Resource Development, New Delhi
4. Government of India (1974): Towards Equality - Report of the Committee on the Status of Women in India, Department of Social Welfare, Ministry of Education and Social Welfare, NewDelhi.
5. Leela Kasturi, (2004): Introduction and excerpts from the report of the sub committee women's role in planned economy, National planning committee series 1947, In M Chaudhuri (ed.) Feminism in India, Delhi: Women Unlimited.

Module 3

1. Agarwal, Bina.(1994): A Field of One's Own:Gender and Land Rights in South Asia, Cambridge;Press, Cambridge.
2. Dwyer,D. and J.Bruce (Eds.) (1988):Home Divided: Women and Income in the Third World, Stanford University Press, Stanford.
3. Evans H and C.Ungerson. (eds.) (1983): Sexual Divisions, Patterns and ProcessesTavistock, London.
4. Kabeer,N (1994): Reversed Realities: Gender Hierarchies in DevelopmentThought, Kali for Women, New Delhi.
5. Redcliff,N. and E.Mingione, (eds.) (1988); Beyond Employment Household Gender and Subsistence, Basil Blackwell, Oxford.
6. Sen,A.K. (1990), Genderand Cooperative Conflict's in Tinker (Ed.) Persistence Inequalities Women and Work Development, Oxford University Press, York.
7. Kapadia Karin. (ed.)(2002) Violence of Development: The Politics of Identity, Gender and Social Inequalities in India, Zubaan: New Delhi.
8. Nussbaum, Martha C (2001) Women and Human Development: Capabilities Approach, Cambridge University Press: New York

Module 4

1. Dantwala, V.L, H.Sethi and P.Visaria (1998), Social Change Through Voluntary Action, Sage Publications, New Delhi.

2. Jhabwala,R, and R,K.Subrariany. (2000) (Eds.) The Unorganized Sector: Work Security and Social Protection Sage Publications, New Delhi.
3. Buvinic M. and Lewis.J.P (Ed) Strengthening the Poor; What Have We Learnt, OECD.
4. Carr, M. C.Martha and R.Jhabala (Eds) (1997), Speaking Out Women's Economic Empowerment in South Asia Vistaar Publications, New Delhi.
5. Hoffman, Saul D and Susan Averett (2010) Women and the Economy: Family, Work and Pay, Prentice Hall
6. Rai Shirin M (2013) Gender and the Political Economy of Development, Polity Press: UK

Module 5

1. Boserup, Ester (2007), Women's Role in Economic Development, George Allen andUnwin, London.
2. Baund. I.S (1992), Forms of Production and Women's Labour: Gender Aspects of Industrialization in India and Mexico Sage Publications, NewDelhi
3. Custers,P, (1997), Capital Accumulation and Women's Labour in Asian Economic Vistaar, New Delhi,
4. Kalpagam ,U. (1994), Labour and Gender, Survival in Urban India, Sage Publications, New Delhi.
5. King,M and Hill (Eids.) (1593), Women's Education Developing Countries Barriers Benefits and politics John Hopkins; Baltimore.
6. Blau, Francine D, Anne E Winkler and Marianne A Ferber (2009) The Economics ofWomen, Men and Work, Prentice Hall
7. Papola,T.; and A.N.Sharma (Ec s.) - 1999) Gender and Employment in India, Vikas Publishing House, New Delhi.
8. Babcock, Linda and Sara Laschever (2003), Women Don't Ask: Negotiations and GenderDivide. Princeton University Press: PrincetonSchultz
9. Ghosh Jayati (2009) Never Done and Poorly Paid: Women's Work in Globalizing India,New Delhi, Women Unlimited, 2009.
10. Raj, Maithreyi Krishna., R.M. Sudarshan and A. Shariff (1999), Gender, Population and Development, Oxford University Press, New Delhi.

11. Venkateswaran S. (1995), Environment, Development and the Gender Gap, SagePublications, New Delhi.