

Course Structure

The Master of Arts (M.A) in Economics is a two year full-time programme. The course is organized over two years, each year consisting of two semesters. Students enrolled in M.A (Economics) Programme will have to pass four semester examination comprising of Core, Elective and Self-study courses. These courses will spread over four semesters and consist of 18 Core (compulsory courses), 6 Elective (optional) courses) and 1 (maximum 3) Self-Study (optional) course. Each semester will consist of 18 credits so students have to cover a total of 72 credits in core and elective courses and minimum 3 credits in self-study course to qualify for a two years master's degree. The course break-up for all the four semesters is as follows:

Semester-I: 6 (Six) Core (Compulsory courses)

Semester-II: 6 (Six) Core (Compulsory courses)

Semester-III: 3 (Three) Core (Compulsory courses)
&
3 (Three) Elective* (Optional courses)
&/or
1 (One) Self-Study** (Optional course)

**Student will have to elect any three elective courses from the list of elective courses assigned for third semester.*

Semester-IV: 3 (Three) Core (Compulsory courses)
&
3 (Three) Elective* (Optional courses)
&/or
1 (One) Self-Study** (Optional course)

**Student will have to elect any three elective courses from the list of elective courses assigned for fourth semester.*

***Student will have to elect minimum one (subject to maximum of three) self-study course from the list of elective courses not being taught in the department during that semester.*

M.A (Economics)

**First year
Semester-I**

Total credits: 18

Course No.	Name of the Course	Credits	Contact hours	Marks	
				Internal sessional tests	End-term Exam
SOS/ECO(C)/101	Micro Economics-I	3	45	40	60
SOS/ECO(C)/102	International Economics	3	45	40	60
SOS/ECO(C)/103	Quantitative Methods and Statistical Analysis	3	45	40	60
SOS/ECO(C)/104	Macro Economics-I	3	45	40	60
SOS/ECO(C)/105	Monetary Economics	3	45	40	60
SOS/ECO(C)/106	Indian Economic Policies	3	45	40	60

Note: All courses are Core (compulsory courses) in the first semester.

**First year
Semester-II**

Total credits: 18

Course No.	Name of the Course	Credits	Contact hours	Marks	
				Internal sessional tests	End-term Exam
SOS/ECO(C)/201	Micro Economics-II	3	45	40	60
SOS/ECO(C)/202	International Finance and Policy	3	45	40	60
SOS/ECO(C)/203	Gender Economics	3	45	40	60
SOS/ECO(C)/204	Macro Economics-II	3	45	40	60
SOS/ECO(C)/205	Economics of Human Development	3	45	40	60
SOS/ECO(C)/206	Research Methodology	3	45	40	60

Note: All courses are Core (compulsory courses) in the Second semester

M.A (Economics)
Second year
Semester-III

Total credits: 18

Course No.	Name of the Course	Credits	Contact hours	Marks	
				Internal sessional tests	End-term examination
Compulsory Courses					
SOS/ECO(C)/301	Public Finance	3	45	40	60
SOS/ECO(C)/302	Demography-I	3	45	40	60
SOS/ECO(C)/303	Dissertation	3	45	40	60
Elective Courses					
SOS/ECO(E)/304	Elective course-1	3	45	40	60
SOS/ECO(E)/304	Elective course-2	3	45	40	60
SOS/ECO(E)/304	Elective course -3	3	45	40	60
List of Elective courses for Third Semester (Student can elect any three courses from the following list of Elective Courses)					
SOS/ECO(E)/304 (a)	Agricultural Economics-I				
SOS/ECO(E)/304 (b)	Labour Economics-I				
SOS/ECO(E)/304 (c)	Industrial Economics				
SOS/ECO(E)/304 (d)	Regional Economics				
SOS/ECO(E)/304 (e)	Economics of Rural Development				
SOS/ECO(E)/304 (f)	Econometrics-I				
SOS/ECO(E)/304 (g)	Financial Institutions and Market				

M.A (Economics)
Second year
Semester-IV

Total credits: 18

Course No.	Name of the Course	Credits	Contact hours	Marks	
				Internal sessional tests	End-term examination
Compulsory Courses					
SOS/ECO(C)/401	Indian Public Finance	3	45	40	60
SOS/ECO(C)/402	Demography-II	3	45	40	60
SOS/ECO(C)/403	Economics of Growth and Development	3	45	40	60
Elective Courses					
SOS/ECO(E)/404	Elective course-1	3	45	40	60
SOS/ECO(E)/404	Elective course-2	3	45	40	60
SOS/ECO(E)/404	Elective course -3	3	45	40	60
List of Elective courses for Fourth Semester (Student can elect any three courses from the following list of Elective Courses)					
SOS/ECO(E)/404 (a)	Agricultural Economics-II				
SOS/ECO(E)/404 (b)	Labour Economics-II				
SOS/ECO(E)/404 (c)	History of Economic Thought				
SOS/ECO(E)/404 (d)	Development Planning				
SOS/ECO(E)/404 (e)	Environmental Economics				
SOS/ECO(E)/404 (f)	Econometrics-II				
SOS/ECO(E)/404 (g)	Field Study and Project Work				

M.A (Economics)
SEMESTER-I

MICRO ECONOMICS-I

Course Title: Micro Economics-I

Course code: **SOS/ECO (C) / 101**

Credits: 3 (Three)

Maximum Marks: 100

(a) End-semester Examination: 60 Marks

(b) Sessional Assessment: 40 Marks

Duration of End-semester Examination: 2 Hours

SYLLABUS

Unit-1 Theories of consumer behavior: Indifference curve approach; Price, Income and Substitution effects (Hicks and Slutsky); Revealed preference theory; Applications of Indifference Curve Analysis; The Consumer's surplus (Marshall and Hicks).Elasticity (Price, cross, income) of demand and Supply and their applications; Revision of Demand theory by Hicks; Linear expenditure system; Indirect utility function

Unit-2: Recent developments in demand; Neumann Morgenstern hypothesis – Savage hypothesis – Markowitz hypothesis – Bandwagon effect – Veblen effect – demand and supply equilibrium; Cob-web theorem; Lagged adjustment in inter-related markets.

Unit-3: Law of variable proportions and Returns-to-scale; Producer's equilibrium; Production functions: Cobb-Douglas and CES functions Cost and Revenue Analysis; Cost Functions – short run and long run costs, Modern theory of Costs. Linear Programming;

Unit-4: Marginal Approach for Firm's equilibrium; Alternative Theories of the Firm: Managerial Theory of the Firm: Baumol's Theory of Sales Revenue Maximisation; Behavioural Theory of the Firm: Cyert and March model; Limit Pricing Principle: Contribution of Bains.

Recommended Reading List

H.L. Ahuja (2008), Advanced Economic Theory, S.Chand publication, New Delhi

Koutsoyiannis, A. (1979), Modern Microeconomics, (2nd Edition), Macmillan Press, London.

Kreps, David M. (1990), A Course in Microeconomic Theory, Princeton University Press, Princeton.

Layard, P.R.G. and A.W. Walters (1978), Microeconomic Theory, McGraw Hill, New York

Sen, A. (1999), Microeconomics: Theory and Applications, Oxford University Press, New Delhi.

Stigler, G. (1996), Theory of Price, (4th Edition), Prentice Hall of India, New Delhi

Varian, H. (2000), Microeconomic Analysis, W.W. Norton, New York

INTERNATIONAL ECONOMICS

Course Title: International Economics

Course code: **SOS/ECO (C) / 102**

Credits: 3 (Three)

Maximum Marks: 100

(a) End-semester Examination: 60 Marks

(b) Sessional Assessment: 40 Marks

Duration of End-semester Examination: 2 Hours

SYLLABUS

Unit-1: Theories of international trade: Absolute and Comparative cost advantage theory and its refinements, Opportunity cost theory; Law of Reciprocal demand: Offer curve analysis.

Unit-2 Modern theories of international trade: Heckscher-Ohlin theorem, Leontief Paradox, Factor-price equalization theorem; Kravis and Linder theories of trade, The Rybczynski theorem – concept and policy implications of immiserizing growth

Unit-3 Effects of economic growth on international trade; Measurement of Gains from Trade and their Distribution; Terms of Trade: Concepts, their uses and limitations; Hypothesis of Secular Deterioration of Terms of Trade, Terms of Trade and LDCs; Trade as an Engine of Growth

Unit-4: Free Trade versus Protection; Tariffs, Quotas and Non-Tariffs Barriers: Economics Effects of Tariffs and Quotas on National Income, Output and Employment, Terms of Trade and Income Distribution; Impact of Non-Tariffs Barriers.

Recommended Reading List

Bhagwati, J. (Ed.) (1981), International Trade, Selected Readings, Cambridge, University Press, Massachusetts.

Carbough, R.J. (1999), International Economics, International Thompson Publishing, New York.

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

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

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

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

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

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

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

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

Soderston, Bo (1991), *International Economics*, The Macmillan Press Ltd., London.

QUANTITATIVE METHODS AND STATISTICAL ANALYSIS

Course Title: Quantitative Methods and Statistical Analysis

Course code: **SOS/ECO (C) / 103**

Credits: 3 (Three)

Maximum Marks: 100

(a) End-semester Examination: 60 Marks

(b) Sessional Assessment: 40 Marks

Duration of End-semester Examination: 2 Hours

SYLLABUS

Unit-1: Statistics: Meaning, nature, subject-matter and limitations; Role of Statistics in economic analysis; Choice of an appropriate measure of central tendency, dispersion and skewness.

Unit-2: Correlation: Meaning, Methods for calculating coefficient of simple correlation; Regression: Analysis in case of one explanatory variable only; Association of attributes

Unit-3: Interpolation and Extrapolation: Binomial, Newton and Lagrange methods; Time Series: Components, Moving average and Least squares methods for calculation of secular trend. Index Numbers: Fisher method, Time Reversal and Factor Reversal Tests.

Unit-4 Role of Mathematics in Economic theory and its limitations; Differentiation: Meaning and Rules, Problem of Maxima & Minima in single and multivariate functions; Matrix: Types, Simple operations on matrices; Determinants: Basic properties of determinants, Solution of simultaneous equations with determinant method.

Recommended Reading List

Allen, R.G.D. (1974), Mathematical Analysis for Economists, Macmillan Press and ELBS, London.

Chiang, A.C. (1986), Fundamental Methods of Mathematical Economics, McGraw Hill, New York.

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

Handry, A.T. (1999), Operations Research, Prentice Hall of India, New Delhi.

Monga, G.S. (1972), Mathematics and Statistics for Economists, Vikas Publishing House, New Delhi.

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

Taha, H.A. (1997), Operations Research : An Introduction (6th Edition), Prentice Hall of India Pvt. Ltd., New Delhi.

Yamane, Taro (1975), Mathematics for Economists, Prentice Hall of India, New Delhi.

MACRO ECONOMICS - I

Course Title: Macro Economics - I

Course code: **SOS/ECO (C) / 104**

Credits: 3 (Three)

Maximum Marks: 100

(a) End-semester Examination: 60 Marks

(b) Sessional Assessment: 40 Marks

Duration of End-semester Examination: 2 Hours

SYLLABUS

Unit-1: Major issues and importance of Macroeconomics; Macro-economic Paradoxes, Meaning and concepts of National Income; Circular flow of income in two, three and four sector economy; Measurement of National Income and Net Economic Welfare

Unit-2: Classical theory of full employment: Say's Law of Market and wage-price flexibility; Keynes Theory of Income and Employment, Macro-economic equilibrium: AS-AD model with variable prices, Friedman's Natural Rate Hypothesis

Unit-3: Consumption functions: Concept, Psychological law of consumption; importance of consumption function; Consumption function puzzle: Kuznets's Consumption Function; Post-Keynesian Theories of Consumption: Relative Income Theory of consumption; Life Cycle theory of consumption, Permanent Income theory of consumption

Unit-4: Investment functions: Marginal Efficiency of Capital, Investment multiplier, Limitations of working of Keynesian Multiplier in developing economies; Accelerator: concept and working; Interaction of multiplier and accelerator; Investment behavior – influence of policy measures on investment, Tobin's q Theory of Investment, impact of inflation on investment

Recommended Reading List

Ackley, G. (1978), Macroeconomics : Theory and Policy, Macmillan, New York

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

MONETARY ECONOMICS

Course Title: Monetary Economics

Course code: **SOS/ECO (C) / 105**

Credits: 3 (Three)

Maximum Marks: 100

(a) End-semester Examination: 60 Marks

(b) Sessional Assessment: 40 Marks

Duration of End-semester Examination: 2 Hours

SYLLABUS

Unit-1: Nature and Functions of Money; Classification of money; Role of money in Economic development, Role of money in capitalist and socialist economies; Meaning and types of monetary standards.

Unit-2: Supply of Money: Measures of Money Supply, High powered money and money multiplier; factors affecting money supply, monetary transmission mechanism.

Unit-3 Demand for Money: Theories of demand for money – Classical approach to demand for money – Quantity theory approach, Fisher's equation, Cambridge quantity theory, Keynes' Liquidity Preference approach; Patinkin, Baumol and Tobin approaches.

Unit-4: Credit creation by Commercial Banks and Credit creation Multiplier; Central Bank: Functions and Role; Monetary Policy: Objectives, tools and effectiveness

Recommended Reading List

Dornbusch, R. and F. Stanley (1997), Macroeconomics, McGraw Hill, Inc., New York.

Gupta, S.B. (1995), Monetary Planning in India, Oxford University Press, New Delhi

Gupta, S.B. (2003), Monetary Economics-Institutions, Theory and Policy, S.Chand publication, New Delhi

Gurley, J. and E.S. Shaw (1960), Money in a Theory of Finance, Brookings Institution, Washington.

Hall, R.E. and J.B. Taylor (1986), Macroeconomics, W.W. Norton, New York.

Heijdra, B.J. and V.P. Fredericck (2001), Foundations of Modern Macroeconomics, Oxford University Press, New Delhi.

- Jha, R. (1991), *Contemporary Macroeconomic Theory and Policy*, Wiley Eastern Ltd., New Delhi.
- Mckinen, G.E. (1978), *Money, The Price Level and Interest Rates*, Prentice Hall of India, New Delhi.
- Reddy, Y.V. (2000), *A Review of Monetary and Financial Sector Reforms in India — A Central Banker's Perspective*, UBSPD, New Delhi.

INDIAN ECONOMIC POLICIES

Course Title: Indian Economic Policies

Course code: **SOS/ECO (C) / 106**

Credits: 3 (Three)

Maximum Marks: 100

(a) End-semester Examination: 60 Marks

(b) Sessional Assessment: 40 Marks

Duration of End-semester Examination: 2 Hours

SYLLABUS

Unit-1: Economic Planning in India: Planning process in India, Planning approaches in different five year plans, Role of NDC and Planning Commission, NITI Aayog and three years action plan

Unit-2: Development of Indian Economic Policies: Gandhian approach, Nehruvian approach, LPG, PURA.

Unit-3: Recent Economic reforms in agricultural and industrial sectors, financial markets and foreign trade.

Unit-4: Policies/Programs dealing with economic problems: Food security, MNREGA, SGRY, VDIS, Demonetization

Recommended Reading List

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

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

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

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

- Chakravarty, S. (1987), *Development Planning: The Indian Experience*, Oxford University Press, New Delhi.
- Dantwala, M.L. (1996), *Dilemmas of Growth: The Indian Experience*, Sage Publications, New Delhi.
- Datt, R. (Ed.) (2001), *Second Generation Economic Reforms in India*, Deep & Deep Publications, New Delhi.
- Government of India, *Economic Survey, (Annual)*, Ministry of Finance, New Delhi.
- Jain, A.K. (1986), *Economic Planning in India*, Ashish Publishing House, New Delhi.
- Jalan, B. (1992), *The Indian Economy — Problems and Prospects*, Viking, New Delhi.
- Jalan, B. (1996), *India's Economic Policy — Preparing for the Twenty First Century*, Viking, New Delhi.
- Joshi, V. and I.M.D. Little (1999), *India : Macro Economics and Political Economy, 1964- 1991*, Oxford University Press, New Delhi.
- Parikh, K.S. (1999), *India Development Report — 1999-2000*, Oxford University Press, New Delhi.
- Reserve Bank of India, *Report on Currency and Finance, (Annual)*.
- Sandesara, J.C. (1992), *Industrial Policy and Planning, 1947-1991 : Tendencies, Interpretations and Issues*, Sage Publications, New Delhi.
- Sen, R.K. and B. Chatterjee (2001), *Indian Economy : Agenda for 21st Century (Essays in honour of Prof. P.R. Brahmananda)*, Deep & Deep Publications, New Delhi.

M.A (Economics)
SEMESTER-II
MICRO ECONOMICS-II

Course Title: Micro Economics-II

Course code: **SOS/ECO (C) / 201**

Credits: 3 (Three)

Maximum Marks: 100

(a) End-semester Examination: 60 Marks

(b) Sessional Assessment: 40 Marks

Duration of End-semester Examination: 2 Hours

SYLLABUS

Unit-1: Perfect competition – Short and long term equilibrium of the firm and industry; Dynamic changes and industry equilibrium. Monopoly – short run and long run equilibrium; Price discrimination; Monopolistic competition - Chamberlin’s approach to equilibrium of the firm.

Unit-2: Pricing and output determination: Duopoly (Cournot model) and Oligopoly (Kinked demand curve model, Cartels and Price leadership); Theory of Games (Zero-sum game, Prisoner’s Dilemma).

Unit-3: Micro Theories of Distribution: Rent (Ricardian and Modern theories), Wages (Marginal Productivity and Modern Theories), Interest (Neo-classical, Liquidity Preference Theories, IS-LM model) and Profit (Knight and Shackle Theories).

Unit-4: Welfare Economics: Concept of social welfare, Pareto optimality criterion and efficiency conditions, Kaldor-Hicks Criterion: Compensation principle, Bergson-Samuelson Social welfare function.

Recommended Reading List

Archibald, G.C. (Ed.) (1971), Theory of the Firm, Penguin, Harmondsworth

Bain, J. (1958), *Barriers to New Competition*, Harvard University Press, Harvard.

Broadway, R.W. and N. Bruce (1984), *Welfare Economics*, Basil Blackwell, London
Cambridge.

Graff, J. De V. (1957), *Theoretical Welfare Economics*, Cambridge University Press,

H.L. Ahuja (2008), *Advanced Economic Theory*, S.Chand publication, New Delhi

Koutsoyiannis, A. (1979), *Modern Microeconomics*, (2nd Edition), Macmillan Press, London.

Kreps, David M. (1990), *A Course in Microeconomic Theory*, Princeton University Press,
Princeton.

Layard, P.R.G. and A.W. Walters (1978), *Microeconomic Theory*, McGraw Hill, New York

Sen, A. (1999), *Microeconomics: Theory and Applications*, Oxford University Press, New Delhi.

Stigler, G. (1996), *Theory of Price*, (4th Edition), Prentice Hall of India, New Delhi

Varian, H. (2000), *Microeconomic Analysis*, W.W. Norton, New York

INTERNATIONAL FINANCE AND POLICY

Course Title: International Finance and Policy

Course code: **SOS/ECO (C) / 202**

Credits: 3 (Three)

Maximum Marks: 100

(a) End-semester Examination: 60 Marks

(b) Sessional Assessment: 40 Marks

Duration of End-semester Examination: 2 Hours

SYLLABUS

Unit-1: Balance of Trade and Balance of Payments- Meaning, Structure and Components Balance of Payments Disequilibrium; Foreign Trade Multiplier- Meaning and Working-Implications of Foreign Trade Multiplier- Limitations of Foreign Trade Multiplier. Policies for Internal and External Balance-Fiscal and Monetary Policy under Fixed and Floating Exchange Rates

Unit-2: Functions of Foreign Exchange Market- Transfer of Purchasing Power, Provision of Credit, Provision of Hedging Facilities; Transactions in the Foreign Exchange Market- Spot and Forward and Exchanges, Futures, Swap Operation, Arbitrage Determination of Rate of Exchange- Purchasing Power Parity Theory, Balance of Payments Theory; Exchange Control- Objectives and Methods; Fixed and Flexible Exchange Rates; Current and Capital Account Convertibility –Meaning, Benefits, Prerequisites and Problems

Unit-3: International Economic Organizations: International Monetary Fund; World Bank; International Development Association; International Finance Corporation Asian Development Bank

Unit-4: Recent EXIM policy; Role of MNCs in India. WTO provisions: TRIPS, TRIMS, GATS and their impact on the different sectors of Indian Economy

Recommended Reading List

- Aggarwal, M.R. (1979), *Regional Economic Cooperation in South Asia*, S. Chand and Co., New Delhi.
- Bhagwati, J. (Ed.) (1981), *International Trade, Selected Readings*, Cambridge, University Press, Massachusetts
- Brahmananda, P.R. (1982), *The IMF Loan and India's Economic Future*, Himalaya Publishing House, Bombay.
- Carbough, R.J. (1999), *International Economics*, International Thompson Publishing, New York.
- Chacholiades, M. (1990), *International Trade : Theory and Policy*, McGraw Hill, Kogakusha, Japan.
- Dana, M.S. (2000), *International Economics : Study, Guide and Work Book*, (5th Edition), Routledge Publishers, London.
- Dunn, R.M. and J.H. Mutti (2000), *International Economics*, Routledge, London.
- Grable, J.O. (1996), *International Financial Markets*, Prentice Hall, Englewood Cliffs, New York.
- Kenen, P.B. (1994), *The International Economy*, Cambridge University Press, London.
- Kenen, P.B. (1995), *Economic and Monetary Union in Europe*, Cambridge University Press, UK.
- Kindleberger, C.P. (1973), *International Economics*, R.D. Irwin, Homewood.
- King, P.G. (1995), *International Economics and International Economic Policy : A Reader*, McGraw Hill International, Singapore.
- Krugman, P.R. and M. Obstfeld (1994), *International Economics : Theory and Policy*, Glenview, Foresman.
- Salvatore, D. (1997), *International Economics*, Prentice Hall, Upper Saddle River, N.J., New York.
- Soderston, Bo (1991), *International Economics*, The Macmillan Press Ltd., London.
- Verma, M.L. (1995), *International Trade*, Vikas Publishing House Pvt. Ltd., Delh.

GENDER ECONOMICS

Course Title: Gender Economics

Course code: **SOS/ECO (C) / 203**

Credits: 3 (Three)

Maximum Marks: 100

(a) End-semester Examination: 60 Marks

(b) Sessional Assessment: 40 Marks

Duration of End-semester Examination: 2 Hours

SYLLABUS

Unit-1: Importance and objectives of women studies; Condition and Role of Women in Indian and Uttarakhand; Demography of female population - age structure, mortality rates and sex ratio; Causes of declining sex ratios and fertility rates in India; Genders sensitization: Meaning role and its importance; Problems and Challenges for Rural and Urban Women (Indian and Uttarakhand economy)

Unit-2: Factors affecting decision-making by women; Women's access to nutrition, health facilities, education and social and community resources and their impact; Democratic decentralisation (Panchayats) and women's empowerment in India; Economic, health and Educational status of women

Unit-3: Female work participation in agriculture, non-agricultural rural activities, informal sector, cottage and small scale industries, organised industry and services sector in Indian and Uttarakhand perspective; Wage differentials in female activities; Factors affecting female participation in labour market Determinants of wage differentials - gender, education, skill, productivity, efficiency, opportunity;

Unit-4: Social security of women; Role of voluntary organizations and self-help groups in women empowerment; Gender and Economic planning in India; Recent Government initiatives for Women Empowerment; Government policies for women empowerment in Uttarakhand; Role of new technologies for helping women; problems in implementation of various government policies for attaining women empowerment

Recommended Reading List

Agnihotri, S.B. (2000), Sex ratio in Indian Population: A Fresh Exploration, Sage Publications, New Delhi.

Boserup E. (1970), Women's Role in Economic Development, George Allen and Unwin, London.

Desai, N. and M.K. Raj. (Eds.) (1979), Women and Society in India, Research Centre for Women Studies, SNDT University, Bombay

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

Kabeer, N. and R. Subrahmaniam (Eds.) (1999), Institutions, Relations and Outcomes, Kali for Women, New Delhi.

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

Mazumdar, V. (1979), Symbols of Power: Studies on the Political Status of Women in India, Allied, Delhi.

Narasimhan, S. (1999), Empowering Women: An Alternative Strategy from Rural India, Sage Publications, New Delhi.

Papola, T.S. and A.N. Sharma (Eds.) (1999), Gender and Employment in India, Vikas Publishing House, New Delhi.

Purushothaman, S. (1998), The Empowerment of Women in India: Grassroots Women's Networks and the State, Sage Publications, New Delhi

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

Srinivasan K. and A. Shroff (1998), India : Towards Population and Development Goals, Oxford University Press, New Delhi.

Venkateswaran, S. (1995), Environment, Development and the Gender Gap, Sage Publications, New Delhi

Wazir, R. (2000), The Gender Gap in Basic Education: NGOs as Change Agents, Sage Publications, New Delhi.

MACRO ECONOMICS-II

Course Title: Macro Economics-II

Course code: **SOS/ECO (C) / 204**

Credits: 3 (Three)

Maximum Marks: 100

(a) End-semester Examination: 60 Marks

(b) Sessional Assessment: 40 Marks

Duration of End-semester Examination: 2 Hours

SYLLABUS

Unit-1 Classical and Keynesian Macro Economics; Post Keynesian development in Macro Economics: Monetarism; Supply-side Economics; New Classical Economics: The new classical macroeconomic approach; Policy implications of new classical approach – Rational expectations theory, Role of expectations in macroeconomic analysis

Unit-2 Theory of Inflation: Classical, Keynesian and Monetarist approaches to inflation; Structuralist theory of inflation; Philips curve analysis – Short run and long run Philips curve; the nature rate of unemployment hypothesis; Tobin's modified Philips curve and policies to control inflation.

Unit-3 IS-LM model: The interaction of Real and Monetary sectors of the economy – Keynesian version of the IS-LM model – Neo-classical version of the IS-LM model; Fiscal and Monetary Policy analysis in an IS-LM model; Short run and long run Aggregate Supply curve analysis

Unit-4 Business cycles: Meaning, phases and features; Theories of business cycles: Hawtrey theory, Over-investment theory, Keynes theory, Samuelson model and Hick's theory, Control of business cycles, relative effectiveness of Monetary and fiscal policies Fiscal policy and crowding out.

Recommended Reading List

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

ECONOMICS OF HUMAN DEVELOPMENT

Course Title: Economics of Human Development

Course code: **SOS/ECO (C) /205**

Credits: 3 (Three)

Maximum Marks: 100

(a) End-semester Examination: 60 Marks

(b) Sessional Assessment: 40 Marks

Duration of End-semester Examination: 2 Hours

SYLLABUS

Unit-1: Human Development: Concepts, Millennium Development Goals and human development, Human Development Index, Multidimensional Poverty Index, Gender related Development Indices, Entitlement and capability approach; Sustainable development: Goals and strategies

Unit-2: Human development indicators, Human development in Indian States; Factors responsible for low human development, Demographic trends and issues in context of human development

Unit-3: Education and human development: Educational profile of India; Relationship between education and development, Trends and pattern of education financing in the Five -Year Plans, Sources; Strategies for improving education and employment- social engineering and inclusive growth

Unit -4: Health and human Development: Population, health and development; National Family Health Survey (NFHS-4), 2015-16: Major findings-key indicators, Female health care and deprivation, Child survival, Fertility and women's emancipation; Reproductive health and health care in India, National Rural Health Mission.

Recommended Reading List

Anil B. Deolalikar, (2005), Attaining Millennium Development Goals in India, Oxford

B.G.Tilak, (2007) Women's Education and Development, Gyan Pub, House New Delhi.

Berman,P. Health Sector Reform in Developing Countries: Making Health Development Sustainable

Bruns Barbara, and Rakotomalala (2005)Achieving Universal Primary Education By 2015, Manas Publication New Delhi

Cohn E. and T Gaske(1989) Economics of education, Pergamon press London,

Daniel Muijs, (2004), Quantitative Research In Education With SPSS, Sage New Delhi

Government of India New Delhi, Report of the National Commission on Macro Economics and Health, 2005

Govined R (2002) India Education Report, Oxford University Press, New Delhi

J. Behrman and T. Srinivasan,(1995) Hand Book of Development Economics

Ministry of Education , Government of India, Annual Progress Report

Ministry of Finance, Government of India, Economic Survey, 2007, 2008,2009

Ministry of Health, Government of India, Annual Progress Report

National Council of Applied Economic Research, India Human Development Report, Oxford New Delhi

National Council of Applied Economic Research, North India Human Development Report, Oxford New Delhi

R. Govinda and Rashmi Diwan , (2003), Community Participation and Empowerment in Primary Education, Saga Publication India Pvt. Ltd, New Delhi.

R. Govinda, (2002) India Education Report, Oxford University Press, New Delhi

S. Mehrotra, P. R. Panchamukhi and R. Srivastava (2004), Universalizing Elementary Education, Oxford University press, New Delhi.

Schultz T.W. (1961), Investment in Human Capital, American Economic Review,

Sen Amartya and Dreze Jean(2003) India Development and Participation, Oxford

Solow, Robert M. (1956),A Contribution to the theory of Economic Growth

UNDP, Human Development Reports, various issues

World Bank, (2003), India Sustaining Reform Reducing Poverty, Oxford, New Delhi

World Bank, World Development Report, various issues

RESEARCH METHODOLOGY

Course Title: Research Methodology

Course code: **SOS/ECO (C) / 206**

Credits: 3 (Three)

Maximum Marks: 100

(a) End-semester Examination: 60 Marks

(b) Sessional Assessment: 40 Marks

Duration of End-semester Examination: 2 Hours

SYLLABUS

Unit-1: Research: Meaning, Objectives, Importance and Types; Research process; Research Problem, Research Design and Sampling Design; Sampling Methods.

Unit-2: Methods for collection of Primary Data; Sources of Secondary Data; Drafting of Questionnaires and Schedules; Measurement and Scaling.

Unit-3: Hypothesis: Meaning, Formulation and Testing; Z, t, F and Chi-square tests.

Unit-4: Data Processing, Interpretation and Report writing, Basic use of computers in Research.

Recommended Reading List

Business Research Methods, Donald R Cooper, McGraw Hill, New Delhi

Research Methodology, Cauvery.R, Sudhanayak U.K, Girija.M and Meenakshi.R, S.Chand & Company Ltd, New Delhi.

Research Methodology: A Guide for Researchers in Management and Social Sciences, Bill Taylor, Gautam Sinha, Taposh Ghoshal, Prentice-Hall of India Private Limited, New Delhi

Research Methodology: Methods and Techniques, C.R. Kothari, New Age International, New Delhi

Statistical Methods, 2004, S.P. Gupta, S.Chand publication, New Delhi

Statistical Methods, D.R. S.P. Gupta, Sultan Chand & Sons, New Delhi

Statistics for Management, Levin and Rubin, Asian Publishing House, New Delhi

M.A (Economics)

SEMESTER-III

PUBLIC FINANCE

Course Title: Public Finance

Course code: **SOS/ECO (C) / 301**

Credits: 3 (Three)

Maximum Marks: 100

(a) End-semester Examination: 60 Marks

(b) Sessional Assessment: 40 Marks

Duration of End-semester Examination: 2 Hours

SYLLABUS

Unit-1: Role of Government in the Economy: Economic Rationale of Mixed Economy; Role of Government in a State; Efficiency, markets and Governments; Market Failure and the rationale for Government Intervention; Natural Monopolies and Market Failure; Non-Existence of Futures Markets and Market Failure; Asymmetric Information and market Failure; The Problem of Externalities; Fiscal Functions of the Government

Unit-2 Public Expenditure: Kinds, Canons ; Wagner’s law of increasing state activities, Role of public expenditure in developing countries Effects of public expenditure on production Economic Growth and distribution; Public Budget: kinds of budget, PPBS, ZBB Balanced budget; different concepts of budget deficits

Unit-3: Taxation: Canons of taxation; Division of Tax Burden: The Benefits –Received Theory, Ability-to-Pay Theory, Optimal taxation, Taxable Capacity; Theories of Tax Shifting: The Concentration theory, Diffusion theory, Demand and supply theory; double taxation; Effects of taxation on production, growth, supply of resources; taxation and distribution

Unit-4: Public Debt: Objectives and Sources of Public Debt; Classification and Effects of Public Debt, Public Debt and Economic Growth, Public Debt and Inflation, Burden of Public Debt; Debt Redemption: Principles of debt management and repayment; Crowding out of private investment

Recommended Reading List

- Atkinson, A.B. and J.E. Siglitz (1980), Lectures on Public Economics, Tata McGraw Hill, New York.
- Auerbach, A.J. and M. Feldstern (Eds.) (1985), Handbook of Public Economics, Vol. I, North Holland, Amsterdam.
- Bhargava, P.K. (1976), Taxation of Agriculture in India, Vora and Co. Bombay.
- Bhargava, P.K. (1984), Some Aspects of Indian Public Finances, Uppal Publishing House, New Delhi.
- Bhargava, P.K. (1991), India's Fiscal Crisis, Ashish Publishing House, New Delhi.
- Bhargava, R.N. (1969), Indian Public Finances, B.D. Bhargava and Sons, Chandausi.
- Borkar, V.V. (1971), Income Tax Reform in India, Popular Prakashan, Bombay.
- Buchanan, J.M. (1970), The Public Finances, Richard D. Irwin, Homewood.
- Chelliah, R.J. (Ed.) (1997), Towards Sustainable Growth, Oxford University Press, New Delhi.
- Datt, R. (Ed.) (2001), Second Generation Economic Reforms in India, Deep & Deep Publications, New Delhi.
- Gandhi, V.P. (1970), Some Aspects of India's Tax Structure, Vora and Company, Bombay.
- Goode, R. (1986), Government Finance in Developing Countries, Tata McGraw Hill, New Delhi.
- Government of India (1992), Reports of the Tax Reforms Committee — Interim and Final (Chairman : Raja J. Chelliah).
- Houghton, J.M. (1970), The Public Finance : Selected Readings, Penguin, Harmondsworth.
- Jha, R. (1998), Modern Public Economics, Routledge, London.
- Menutt, P. (1996), The Economics of Public Choice, Edward Elgar, U.K.
- Mundle, S. (1999), Public Finance Policy: Issues for India, Oxford University Press, New Delhi.
- Musgrave, R.A. (1959), The Theory of Public Finance, McGraw Hill, Kogakusha, Tokyo.
- Musgrave, R.A. and P.B. Musgrave (1976), Public Finance in Theory and Practice, McGraw Hill, Kogakusha, Tokyo.
- Shome, P. (Ed.) (1995), Tax Policy : Handbook, Tax Division, Fiscal Affairs Department, International Monetary Fund, Washington D.C.
- Shoup, C.S. (1970), Public Finance, Aldine, Chicago.

DEMOGRAPHY-I

Course Title: Demography-I

Course code: **SOS/ECO (C) / 302**

Credits: 3 (Three)

Maximum Marks: 100

(a) End-semester Examination: 60 Marks

(b) Sessional Assessment: 40 Marks

Duration of End-semester Examination: 2 Hours

SYLLABUS

Unit-1: Demography: Meaning and Scope of the study; Theories of population: Malthusian theory, Optimum theory, Theory of demographic transition.

Unit-2: Methodology of Demographic Research: Vital Statistics, Gross reproduction rate and net reproduction, Measures of Mortality, Concept and Use of Life Table, Total fertility rate; Factors affecting fertility.

Unit-3: Migration: International and Internal Migration, Economic and Social Consequences of Migration, Factors affecting migration; Urbanization: Growth and distribution of rural-urban population.

Unit-4: Population Growth and Economic Development: Population, economy and environment linkages, Population, health, nutrition, productivity nexus; Control of Population, Population and human development issues.

Recommended Reading List

Agarwal S.N. (1972), India's Population Problem, Tata McGraw-Hill Co., Bombay.

Bogue, D.J. (1971), Principles of Demography, John Wiley, New York

Bose, A. (1996), India's Basic Demographic Statistics, B.R. Publishing Corporation, New Delhi

- Chenery H. and T.N. Srinivasan (Eds.) (1989), Hand Book of Development Economics, Vol. 1 & 2 Elsevier, Amsterdam
- Choubey, P.K. (2000), Population Policy in India, Kanishka Publications, New Delhi.
- Coale A.J. and E.M. Hoover (1958), Population Growth and Economic Development in
- Gulati, S.C. (1988), Fertility in India: An Econometric Study of a Metropolis, Sage, New Delhi.
- Low Income Countries: A Case Study of India's Prospects, Princeton University Press, Princeton
- Simon, J.L. (1992), Population and Development in Poor Countries, Princeton University Press
- Srinivasan, K. (1998), Basic Demographic Techniques and Applications, Sage, New Delhi
- Srinivasan, K. and A. Shariff (1998), India: Towards Population and Demographic Goals, Oxford University Press, New Delhi
- Stryock, H. et. al (1973), The Methods and Materials of Demography, US Department of Commerce, Washington, D.C.

DISSERTATION

Course Title: Dissertation

Course code: **SOS/ECO (C) / 303**

Credits: 3 (Three)

Maximum Marks: 100

Note: Dissertation will be compulsory for all the students of Third semester. Dissertation will be carried by the student under the supervision of Student advisor (teacher of department).

Guidelines for Dissertation:

1. Dissertation should be based on any relevant economic issue at local/regional/state/National/international level
2. It should be developed on the basis of either primary or secondary data.
3. Dissertation should be limited to a range of 40 to 80 pages approx. (Font type-Times New Roman or Font Size-14 font, Line spacing- 1.5 spacing; For Hindi- Kruti Dev-010, Font size-16, Line spacing-1.5)

Format of Report:

The report should be submitted in following format: Title Page, Certificate (by supervisor and student), Introduction (Background of the Problem), Literature Review, Study Methodology, Research Findings, Conclusion, suggestions or policy prescriptions, Bibliography

Note: There should not be any plagiarism in the research report.

Method of Evaluation:

Performance of student in dissertation will be evaluated on the following three basis:

(a) Dissertation (By external and internal experts)	60 Marks
(b) Viva-voce (By external expert)	20 Marks
(c) Periodical presentation (by supervisor-internal expert)	<u>20 Marks</u>
Total:	100 Marks

Note: Name of the external expert will be decided by the University.

AGRICULTURAL ECONOMICS-I

Course Title: Agricultural Economics-I

Course code: **SOS/ECO (E) / 304(a)**

Credits: 3 (Three)

Maximum Marks: 100

(a) End-semester Examination: 60 Marks

(b) Sessional Assessment: 40 Marks

Duration of End-semester Examination: 2 Hours

SYLLABUS

Unit-1: Agricultural Economics: Nature and Scope; Role of Agriculture in Economic Development; Problems of transforming traditional agricultural; Organic farming: Present status & Future scope;

Unit-2: Agriculture Growth under the Plans: Overall trends and Inter-regional Variations; Land Reforms: Measures and their progress.

Unit-3: Green Revolution: Achievements and failures; Agriculture Development and Technological Progress: Indigenous and Bio-Technological Practices for Sustainable Agriculture.

Unit-4: Food Security in India: Problems and solutions, Public Distribution system in India

Recommended Reading List

Drummond, H E and Goodwin, J W., Agricultural Economics, Standard Book Distributing House, 2004

Eicher, Carl and Lawrence Witt, Agriculture in Economic Development, McGraw Hill Book Company, 1964

Joshi P C., Land Reforms in India: Trends and Perspective, New Delhi; Allied Publishers, 1975

Kahlon, A S and Karam Singh, Managing Agricultural Finance: Theory and Practice, New Delhi: Allied Publishers Pvt. Ltd 1984.

Khusro, A. M., Readings in Agricultural Development, New Delhi: Allied Publishers Pvt. Ltd.

Mellor W. Hohn, The Economics of Agricultural Development, Mumbai: Vora and Co Publishers Pvt. Ltd.

Ruddar Datt, K.P.M. Sundharam, 2008, Indian Economy, S.Chand publication, New Delhi

Rudra Ashok, Indian Agricultural Economics: Myths and Realities, New Delhi: Allied Publishers Pvt. Ltd. 1982.

Sadhu A.N., Singh [Amarjit], Fundamentals of Agricultural Economics, 2000

Shrivastava, O S, Agricultural Economics, 1996

Tyagi, B P Agricultural Economics and Rural Development, 1989

LABOUR ECONOMICS-I

Course Title: Labour Economics-I

Course code: **SOS/ECO (E) / 304(b)**

Credits: 3 (Three)

Maximum Marks: 100

(a) End-semester Examination: 60 Marks

(b) Sessional Assessment: 40 Marks

Duration of End-semester Examination: 2 Hours

SYLLABUS

Unit-1: Labour Economics: Nature, scope and importance; Indian Labour Market: Meaning, Characteristics of Organised and unorganized labour in Indian Economy.

Unit-2: Wage determination: Marginal Productivity Theory, Theory of Collective Bargaining, Concept of Minimum Wage and Fair Wage, Wage Policy in India, Wage differentials; Wages Act, 1936, Wage Act 1948 – Bonus and fringe benefits Payments of Bonus Act 1965 and Amendments.

Unit-3: Employment and development relationship: Poverty and unemployment in developing countries; Unemployment — Concept and Types; Analysis of educated unemployment; Impact of rationalization, technological change and modernization on employment; Employment policy in Five Year Plans and its evaluation.

Unit-4: Trade Unions: Introduction, Nature, Characteristics, functions and Growth; Achievements of trade unions; Obstacles and weaknesses in the growth of trade union movement in India.

Recommended Reading List

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

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

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

- Lester, R.A. (1964), *Economics of Labour*, (2nd Edition), Macmillan, New York.
- McConnell, C.R. and S.L. Brue (1986), *Contemporary Labour Economics*, McGraw-Hill, New York.
- Papola, T.S., P.P. Ghosh and A.N. Sharma (Eds.) (1993), *Labour, employment and Industrial Relations in India*, B.R. Publishing Corporation, New Delhi.
- Rosenberg M.R. (1988), *Labour Markets in Low Income Countries* in Chenery, H.B. and T.N. Srinivasan, (Eds.), *The Handbook of Development Economics*, North-Holland, New York.
- Ruddar Datt, K.P.M. Sundharam, 2008, *Indian Economy*, S.Chand publication, New Delhi
- Venkata Ratnam, C.S. (2001), *Globalization and Labour-Management Relations: Dynamics of Change*, Sage Publications/Response Books, New Delhi.

INDUSTRIAL ECONOMICS

Course Title: Industrial Economics

Course code: **SOS/ECO (E) / 304(c)**

Credits: 3 (Three)

Maximum Marks: 100

(a) End-semester Examination: 60 Marks

(b) Sessional Assessment: 40 Marks

Duration of End-semester Examination: 2 Hours

SYLLABUS

Unit-1: Industrial Economics: Meaning, Scope, need & Significance of the Study, Industrial Structure: Private sector versus Public sector industries; Large, Medium, Small-scale and cottage industries; Market structure and behaviour of a firm. Competition policy: Need and requirements; Productivity; efficiency and capacity utilization; Methods of measuring efficiency of a firm, Diversification, Integration and Merger.

Unit-2: Determinants of Industrial Location: Technical, economic, infrastructural and other factors; Factors Influencing Location of Industries; Theories of industrial location - Weber, August Losch, Sargant Florence; Development of Backward Regions: Government Policy and approach for the development of backward regions; Recent Programs for Development of Backward Regions; Industrial Imbalance: Causes and Measures, Need for Balanced Regional Development of Industries

Unit-3: Industrial Finance: Meaning, Scope and Importance; Sources of Short term and long term Industrial Finance; Industrial Financial Institutions: Role and functioning in India Foreign capital: Need for Foreign Capital, Governments Policy towards Foreign Capital

Unit-4: Industrial development and policies in India: Brief Outline of Industrial Policies 1991; Trends in Industrial Growth after 1991, Role of MNC's in India. 'Make in India' policy

Recommended Reading List

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

- Barthwal, R.R. (1985), *Industrial Economics*, Wiley Eastern Ltd., New Delhi.
- Cherunilam, F. (1994), *Industrial Economics: Indian Perspective (3rd Edition)*, Himalaya Publishing House, Mumbai.
- Desai, B. (1999), *Industrial Economy in India (3rd Edition)*, Himalaya Publishing House, Mumbai.
- Divine, P.J. and R.M. Jones et. al. (1976), *An Introduction to Industrial Economics*, George Allen and Unwin Ltd., London.
- Government of India, *Economic Survey (Annual)*.
- Hay, D. and D.J. Morris (1979), *Industrial Economics : Theory and Evidence*, Oxford University Press, New Delhi.
- Kuchhal, S.C. (1980), *Industrial Economy of India (5th Edition)*, Chaitanya Publishing House, Allahabad.
- Reserve Bank of India, *Report on Currency and Finance (Annual)*.
- Singh, A. and A.N. Sadhu (1988), *Industrial Economics*, Himalaya Publishing House, Bombay.

REGIONAL ECONOMICS

Course Title: Regional Economics

Course code: **SOS/ECO (E) / 304(d)**

Credits: 3 (Three)

Maximum Marks: 100

(a) End-semester Examination: 60 Marks

(b) Sessional Assessment: 40 Marks

Duration of End-semester Examination: 2 Hours

SYLLABUS

Unit-1: Regional Economics: Concept, definition, scope and importance; Theories of regional development and planning.

Unit-2: Economic development and regional disparities; Indicators of regional disparities; Backwardness and regional imbalances in India; Regional dimensions of Indian plans.

Unit-3: Economy of Uttarakhand: Salient features - Geographical features, Land types, Land use, Forest resources and Energy resources; Agriculture and Industrial pattern in Uttarakhand; Tourism in Uttarakhand economy.

Unit-4: Human resource in Uttarakhand: Demographic profile, Education, Health and other infrastructural facilities, Unemployment and migration, Role of women in Uttarakhand economy; Poverty in Uttarakhand; Panchayati Raj and peoples participation.

Recommended Reading List

BalKrishan: Regional Planning

Bisht N.S : Regional Economics (Hindi)

Chandra and Puri: Regional planning in India

Dewan M.L and Jagdish Bahadur: Uttaranchal vision and Action programme

G.P Mishra: Regional Dimensions of development

L. Needlemand: Regional Development

Planning commission, Govt. of India, Five year plans

Sati, M.C: Diversity and Development of Himalayan Economy

Tolia, R.S: Uttarakhand Today

Winsar publication: Uttarakhand year book (Hindi and English)

ECONOMICS OF RURAL DEVELOPMENT

Course Title: Economics of Rural Development

Course code: **SOS/ECO (E) / 304(e)**

Credits: 3 (Three)

Maximum Marks: 100

(a) End-semester Examination: 60 Marks

(b) Sessional Assessment: 40 Marks

Duration of End-semester Examination: 2 Hours

SYLLABUS

Unit-1: Rural development: Nature and structure of rural sector in India, Meaning, need and basic principles of rural development.

Unit-2: Dimensions of rural development in India: Growth of Agriculture; Agrarian reforms, Infrastructural development.

Unit-3: Rural problems in India: Nature, magnitude, causes and remedies of Poverty, Unemployment and Indebtedness; Problems of Farm and Non-farm Rural employment; Programmes in India for welfare of rural and farm labour.

Unit-4: Rural development programmes in India: Objectives, basic features and assessment of current programmes.

Recommended Reading List

Datt , Sundaram - Indian Economy , S.Chand and Company, New Delhi.

Desai, Vasant - Study of Rural Economics, Himalaya Publishing Company, New Delhi.

Gagam Kumar Singh - Administration for Rural Development Programme in India ,Abhijeet Publications, New Delhi

Government of India – Evolution of Community Development Programme in India

Government of India, Ministry of Finance, Economic Division Economic Survey- Various Issues.

Jain P.C. – Agricultural Reforms in India

Jain S.P. – Indian Rural Economics Vikas, New Delhi

Kanak Kanti Bagchi – Employment and Poverty Alleviation Programmes in India – An Appraisal
(2 vols) Abhijeet Publications, New Delhi

Maheshwari S. – Rural Development in India

Mishra Puri – Indian Economy, Himayala Publishing House, Mumbai.

Sanatan Nayak – Irrigation and Economic Development, Abhijeet Publications, New Delhi

Shakuntala Devi – Rural Credit and Agricultural Development, Scrap & Sons, New Delhi 1996.

Statistics on Indian Economy - Various Issue – R.B.I. (Mumbai)

ECONOMETRICS-I

Course Title: Econometrics-I

Course code: **SOS/ECO (E) / 304(f)**

Credits: 3 (Three)

Maximum Marks: 100

(a) End-semester Examination: 60 Marks

(b) Sessional Assessment: 40 Marks

Duration of End-semester Examination: 2 Hours

SYLLABUS

Unit-1: Econometrics: Nature and Scope; Relationship among Economics, Mathematics and Econometrics; Economic model versus Econometric model; Conceptual Analysis: Endogenous, Exogenous and Lagged Variables; Single equation versus Simultaneous Equation Models; Cross-section, Time-series and Panel data.

Unit-2: Specification bias: Meaning, causes, effects; Measurement Errors; Concepts of Dummy and Proxy variables.

Unit-3: Problem of Identification: Rank and Order conditions. Equations in a model: Structural, Reduced and Final forms.

Unit-4: Linear regression model: OLS method and its assumptions; Estimation of parameters through OLS in case of maximum two explanatory variables; BLU properties of OLS estimators.

Recommended Reading List

Amemiya, T. (1985), Advanced Econometrics, Harvard University Press, Cambridge, Mass.

Baltagi, B.H. (1998), Econometrics, Springer, New York.

Dongherty, C. (1992), Introduction to Econometrics, Oxford University Press, New York.

Goldberger, A.S. (1998), Introductory Econometrics, Harvard University Press, Cambridge, Mass

Gujarati, D.N. (1995), Basic Econometrics (2nd Edition), McGraw Hill, New Delhi.

- Hill R. C., E.G. William and G.G. Judge (1997), Undergraduate Econometrics, Wiley, New York.
- Kennedy. P. (1998), A Guide to Econometrics (4th Edition), MIT Press, New York.
- Kmenta, J. (1997), Elements of Econometrics (Reprint Edition), University of Michigan Press, New York.
- Koutsoyiannis, A. (1977), Theory of Econometrics (2nd ed.), The Macmillan Press Ltd., London.
- Krishna, K.L. (Ed.) (1997), Econometric Applications in India, Oxford University Press, New Delhi.
- Maddala, G.S. (Ed.) (1993), Econometrics Methods and Application (2 Vols.), Aldershot U.K.
- Theil, H. (1981), Introduction to Econometrics, Prentice Hall of India, New Delhi.

FINANCIAL INSTITUTIONS AND MARKETS

Course Title: Financial Institutions and Markets

Course code: **SOS/ECO (E) / 304(g)**

Credits: 3 (Three)

Maximum Marks: 100

(a) End-semester Examination: 60 Marks

(b) Sessional Assessment: 40 Marks

Duration of End-semester Examination: 2 Hours

SYLLABUS

Unit-1: Money and finance: The structure of the financial system, Functions of the financial sector, Indicators of financial development, Financial System and Economic Development.

Unit-2: Non-bank financial institution: Definition, Types, their growth and impact on India's economic development, Measures taken to control their operations.

Unit-3: Money and Capital markets: Role and structure, Call money market, Treasury bill market, Commercial bill market including commercial paper and certificate of deposits, Discount market, Government securities market, Primary and secondary market for securities; SEBI, IRDA.

Unit-4: International financial system: Lending operations of IMF, World Bank and its affiliates- IDA and IFC; Current issues; Reforms in International monetary system for developing countries; Growth of Regional financial institutions - Asian Development bank and its lending activities; Euro-dollar and Euro-Currency markets.

Recommended Reading List

Bhole, L.M. (1999), Financial Institutions and Markets, Tata McGraw Hill Company Ltd., New Delhi.

Bhole, L.M. (2000), Indian Financial System, Chugh Publications, Allahabad.

Edminster, R.O. (1986), Financial Institutions, Markets and Management, McGraw Hill, New York.

- Goldsmith, R.W. (1969), *Financial Structure and Development*, Yale, London.
- Hanson, J.A. and S. Kathuria (Eds.) (1999), *India : A Financial Sector for the Twenty-first Century*, Oxford University Press, New Delhi.
- Harker, P.T. and S.A. Zenios (2000) (Ed.), *Performance of Financial Institutions*, Cambridge University Press, Cambridge.
- Johnson, H.J. (1993), *Financial Institutions and Markets*, McGraw Hill, New York.
- Khan, M.Y. (1996), *Indian Financial System*, Tata McGraw Hill, New Delhi.
- Machiraju, M.R. (1999), *Indian Financial Systems*, Vikas Publishing House, New Delhi.
- Ohlson, J.A. (1987), *The Theory of Financial Markets and Institution*, North Holland, Amsterdam.
- Prasad, K.N. (2001), *Development of India's Financial System*, Sarup & Sons, New Delhi.
- Robinson, R.I. and D. Wrightman (1981), *Financial Markets*, McGraw Hill, London.

M.A (Economics)
SEMESTER-IV
INDIAN PUBLIC FINANCE

Course Title: Indian Public Finance

Course code: **SOS/ECO (C) / 401**

Credits: 3 (Three)

Maximum Marks: 100

(a) End-semester Examination: 60 Marks

(b) Sessional Assessment: 40 Marks

Duration of End-semester Examination: 2 Hours

SYLLABUS

Unit-1: Indian Tax System: Major Direct and Indirect Taxes in India; Reforms in Direct and Indirect taxes; GST

Unit-2: Trends in public expenditure; Central and State governments' Debt in India: Trends, Composition, Fiscal sector reforms in India.

Unit-3: Central and State government budgets: Analysis of recent two years' budgets of India and Uttarakhand.

Unit-4: Fiscal federalism in India: Centre-State financial relations in India; Problems of states' resources and indebtedness; Resource transfer from Union to States: Criteria for transfer of resources; Recommendations of recent Finance Commission

Recommended Reading List

Ashutosh Raravikar, Fiscal Deficit and Inflation in India, Macmillan India Ltd. New Delhi.

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

Gandhi, V.P. (1970), Some Aspects of India's Tax Structure, Vora and Company, Bombay.

Government of India (1992), Reports of the Tax Reforms Committee — Interim and Final (Chairman : Raja J. Chelliah).

Joshi P.L. Zero Base Budgeting Technology in Government, Dhruv and Deep Books, Bombay.

Mithani D.M. Principles of Public Finance and Fiscal Policy Himalaya Publishing House, New Delhi.

Ruddar Datt and K.P.M. Sundharam (2008), Indian Economy, S.C.Chand and Company Ltd, New Delhi

Srivastava, D.K. (Ed.) (2000), Fiscal Federalism in India, Har-Anand Publications Ltd., New Delhi

DEMOGRAPHY-II

Course Title: Demography-II

Course code: **SOS/ECO (C) / 402**

Credits: 3 (Three)

Maximum Marks: 100

(a) End-semester Examination: 60 Marks

(b) Sessional Assessment: 40 Marks

Duration of End-semester Examination: 2 Hours

SYLLABUS

Unit-1: Population in India: Growth; Trends; Composition; Occupational and Regional Distribution; Effects of Population Growth in India; Factors affecting Mortality, Fertility and Migration in India, Life expectancy in India.

Unit-2: Sources of Demographic Data in India: Population Census in India - Nature, Methods and Problems, Salient Features of Population Census of 2011; Latest National Family Health Survey.

Unit-3: Population Policy in India: Family Planning Programme in India, Shift in Policy Focus from Population Control to family Welfare and to women Empowerment; The new population Policy; Main features of latest population census with special reference to the state of Uttarakhand.

Unit-4: International Aspects of Population: Unequal Distribution of population and World Resources, Population Trends in the twentieth century, Determinants of age and sex structure, Demographic effects of sex and age structure; Problems emerging from population structure in developed and under developed countries

Recommended Reading List

Agarwal S.N. (1972), India's Population Problem, Tata McGraw-Hill Co., Bombay.

Bogue, D.J. (1971), Principles of Demography, John Wiley, New York

- Bose, A. (1996), *India's Basic Demographic Statistics*, B.R. Publishing Corporation, New Delhi
- Chenery H. and T.N. Srinivasan (Eds.) (1989), *Hand Book of Development Economics*, Vol. 1 & 2 Elsevier, Amsterdam
- Choubey, P.K. (2000), *Population Policy in India*, Kanishka Publications, New Delhi.
- Coale A.J. and E.M. Hoover (1958), *Population Growth and Economic Development in Low Income Countries: A Case Study of India's Prospects*, Princeton University Press, Princeton
- Gulati, S.C. (1988), *Fertility in India: An Econometric Study of a Metropolis*, Sage, New Delhi.
- Krishnaji M., R.M. Sudarshan and A. Shariff (1999), *Gender Population and Development*, Oxford University Press, New Delhi.
- Mishra S. (2000), *Voluntary Action in Health and Population : The Dynamics of Social Transition*, Sage, New Delhi
- Seth M. (2000), *Women and Development : The Indian Experience*, Sage, New Delhi.
- Simon, J.L. (1992), *Population and Development in Poor Countries*, Princeton University Press
- Srinivasan, K. (1998), *Basic Demographic Techniques and Applications*, Sage, New Delhi
- Srinivasan, K. and A. Shariff (1998), *India: Towards Population and Demographic Goals*, Oxford University Press, New Delhi
- Stryock, H. et. al (1973), *The Methods and Materials of Demography*, US Department of Commerce, Washington, D.C.

ECONOMICS OF GROWTH AND DEVELOPMENT

Course Title: Economics of Growth and Development

Course code: **SOS/ECO (C) / 403**

Credits: 3 (Three)

Maximum Marks: 100

(a) End-semester Examination: 60 Marks

(b) Sessional Assessment: 40 Marks

Duration of End-semester Examination: 2 Hours

SYLLABUS

Unit-1: Economic Growth and Development: Meaning, Concept and dimensions; Determinants of economic growth; Obstacles in development. Measuring Development: Income Measures, Basic Needs Approach, PQLI, HDI and Capabilities Approach; Goulet's core values of development

Unit-2: Theories of Development: Contributions of Adam Smith, Ricardo, Karl Marx and Schumpeter, Rostow's Theory of Stage of Economic Growth, Nurkse's theory

Unit-3: Growth Models Harrod and Domar: Instability of equilibrium; Neo Classical Growth Models: Solow and Meade; Growth Models of Joan Robinson, Kaldor and Pasinetti

Unit-4: Sectoral Aspects of development: Role of agriculture, industry and foreign trade in economic development; Role of Monetary, Fiscal and Price policies in economic development. Strategies for development: Balanced versus unbalanced growth and Capital-intensive versus Labour-intensive strategies

Recommended Reading List

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

Behrman, S. and T.N. Srinivasan (1995), Handbook of Development Economics, Vol. 3, Elsevier, Amsterdam.

- Brown, M. (1966), *On the Theory and Measurement of Technical Change*, Cambridge University Press, Cambridge, Mass
- Chenery, H. and T.N. Srinivasan (Eds.) (1989), *Handbook of Development Economics*, Vols. 1 & 2, Elsevier, Amsterdam.
- Chenery, H.B. et. al. (Eds.) (1974), *Redistribution with Growth*, Oxford University Press, Oxford.
- Dasgupta, P. (1993), *An Enquiry into Well-being and Destitution*, Clarendon Press, Oxford.
- Ghatak, S. (1986), *An Introduction to Development Economics*, Allen and Unwin, London.
- Gillis, M., D.H. Perkins, M. Romer and D.R. Snodgrass (1992), *Economics of Development*, (3rd Edition), W.W. Norton, New York.
- Gimmell, N. (1987), *Surveys in Development Economics*, Blackwell, Oxford.
- Higgins, B. (1959), *Economic Development*, W.W. Norton, New York.
- Hogendorn, J. (1996), *Economic Development*, Addison, Wesley, New York.
- Kahkonon, S. and M. Olson (2000), *A New Institutional Approach to Economic Development*, Vistaar.
- Kindleberger, C.P. (1977), *Economic Development*, (3rd Edition), McGraw Hill, New York.
- Todaro, M.P. (1971), *Development Planning : Models and Methods*, Oxford University Press, Oxford.

AGRICULTURAL ECONOMICS-II

Course Title: Agricultural Economics-II

Course code: **SOS/ECO (E) / 404(a)**

Credits: 3 (Three)

Maximum Marks: 100

(a) End-semester Examination: 60 Marks

(b) Sessional Assessment: 40 Marks

Duration of End-semester Examination: 2 Hours

SYLLABUS

Unit-1: Agriculture Finance in India: Importance, Institutional and Non-Institutional sources, Existing Credit Delivery System – Structure, problems and remedies.

Unit-2: Cooperative Movement in India: Problems and prospects of Cooperative Institutions for agriculture credit.

Unit-3: Agricultural Marketing: Market Structure and Problems, Regulated Markets, Warehousing, Taxation and Crop Insurance; Agricultural Price Policy – Objectives, Instruments and Evaluation.

Unit-4: Current Issues in Indian Agriculture: Agro-Subsidies in India; Industrial Trade in Agricultural Commodities: Commodity Agreements Issues in Liberalization of Domestic and International Trade in Agriculture; Role of WTO and MNCs in Agriculture.

Recommended Reading List

Drummond, H E and Goodwin, J W., Agricultural Economics, Standard Book Distributing House, 2004

Eicher, Carl and Lawrence Witt, Agriculture in Economic Development, McGraw Hill Book Company, 1964

Joshi P C., Land Reforms in Indina: Trends and Perspective, New Delhi; Allied Publishers, 1975

Kahlon, A S and Karam Singh, Manageing Agricultural Finance: Theory and Practice, New Delhi: Allied Publishers Pvt. Ltd 1984.

Khusro, A. M., Readings in Agricultural Development, New Delhi: Allied Publishers Pvt. Ltd.

Mellor W. Hohn, The Economics of Agricultural Development, Mumbai: Vora and Co Publishers Pvt. Ltd.

Ruddar Datt, K.P.M. Sundharam, 2008, Indian Economy, S.Chand publication, New Delhi

Rudra Ashok, Indian Agricultural Economics: Myths and Realities, New Delhi: Allied Publishers Pvt. Ltd. 1982.

Sadhu A.N., Singh [Amarjit], Fundamentals of Agricultural Economics, 2000

Shrivastava, O S, Agricultural Economics, 1996

Tyagi, B P Agricultural Economics and Rural Development, 1989

LABOUR ECONOMICS-II

Course Title: Labour Economics-II

Course code: **SOS/ECO (E) / 404(b)**

Credits: 3 (Three)

Maximum Marks: 100

(a) End-semester Examination: 60 Marks

(b) Sessional Assessment: 40 Marks

Duration of End-semester Examination: 2 Hours

SYLLABUS

Unit-1: Labour Migration: Approaches, Effects of Migration, Absenteeism of Industrial Labour in India: Causes, Effects and Remedies;

Unit-2: Industrial Disputes: Nature, Causes, Settlement and prevention mechanism in India; Industrial Act 1947 and amendments – Workers’ participation in Management, Role of Tripartism, Collective bargaining, adjudication and arbitration Role of judicial activism

Unit-3: Labour Welfare: Objectives, Labour welfare activities in India; Social Security: Features, elements covered under social security; Review and appraisal of states policies with respect to social security and labour welfare in India

Unit-4: Special problems of labour: Child labour, Female labour, Discrimination and Gender bias in treatment of labour; Labour Market Reforms; Problems of labours in organized and unorganized sectors in Indian Economy

Recommended Reading List

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

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

- Jhabvala, R. and R.K. Subrahmanya (Eds.) (2000), *The Unorganised Sector : Work Security and Social Protection*, Sage Publications, New Delhi.
- Lester, R.A. (1964), *Economics of Labour*, (2nd Edition), Macmillan, New York.
- McConnell, C.R. and S.L. Brue (1986), *Contemporary Labour Economics*, McGraw-Hill, New York.
- Papola, T.S., P.P. Ghosh and A.N. Sharma (Eds.) (1993), *Labour, employment and Industrial Relations in India*, B.R. Publishing Corporation, New Delhi.
- Rosenberg M.R. (1988), *Labour Markets in Low Income Countries* in Chenery, H.B. and T.N. Srinivasan, (Eds.), *The Handbook of Development Economics*, North-Holland, New York.
- Ruddar Datt, K.P.M. Sundharam, 2008, *Indian Economy*, S.Chand publication, New Delhi
- Venkata Ratnam, C.S. (2001), *Globalization and Labour-Management Relations: Dynamics of Change*, Sage Publications/Response Books, New Delhi.

HISTORY OF ECONOMIC THOUGHT

Course Title: History of Economics Thought

Course code: **SOS/ECO (E) / 404(c)**

Credits: 3 (Three)

Maximum Marks: 100

(a) End-semester Examination: 60 Marks

(b) Sessional Assessment: 40 Marks

Duration of End-semester Examination: 2 Hours

SYLLABUS

Unit-1 Pre-Classical Thought: Mercantilism and Physiocracy; Classicism: Adam Smith, J.B. Say, Ricardo, J.S. Mill, Malthus

Unit-2 Socialist Critics: Sismondi, Saint-Simon; Marxian Philosophy: Dialectical Materialism and Historical Materialism. Marxian theories of value, surplus value, profit and crisis of capitalism

Unit-3 Neo-Classicism; Keynesian and Post Keynesian development in Economics thought

Unit-4 Modern Indian Economic Thought: Nauroji, Ranade, R.C.Dutt; M.N. Roy (Democratic Decentralization); Gandhian Economic Thought, M. Visvesvaraya and J.K. Mehta

Recommended Reading List

Dasgupta, A.K.(1985), Epochs of Economic Theory, Oxford university Press Delhi.

Ekelund, R.B. and R. Herbett (1983), A Hisotry Economic Theory and Method. Mc Graw Hill,London.

Gide, Cand G. Rst(1956)m, A History of Economics Doctrines George G., Harrap and Co., London.

Hajela, T.N.(1980), History of Economic Thought Shivalal Agarwala and Co., Agra

Gray, A(1978), Development of Economic Doctrine, Longman Group, London

Rima, I.H.(1979)Development of Economic Analysis, Richard D Irvin, Homewood.

Roll E. (1973) A History of Economic Thought, Fabre, London.

Babatosh Datta, Indian Economic Though, Twentieth Century Perspectives, 199-50

Gandhi, K.K. (1938), Economics of village industries, , Navivan Publishing House Ahmedabad.

Gandhi, K.K. (1974) India of My Dreams, Navjivan Publishing House Ahmedabad.

Ganguli, B.N. (1977, Indian Economic thought a nineteenth century perspective, Tata, MacGraw-Hill, New Delhi.

Gupta, J.N.ed.,(1971), R.C.Dutt-Life and works, London.

Kautilya(1951), Arthashastra tr. By R. Shyamasastry, Rernond Printining Press, Mysore

DEVELOPMENT PLANNING

Course Title: Development Planning

Course code: **SOS/ECO (E) / 404(d)**

Credits: 3 (Three)

Maximum Marks: 100

(a) End-semester Examination: 60 Marks

(b) Sessional Assessment: 40 Marks

Duration of End-semester Examination: 2 Hours

SYLLABUS

Unit-1: Economic Planning: Economic Planning: Meaning, Need, objectives, limitations; Process of Plan formation, requisites for successful planning; Types of planning. Planning under capitalism and socialism; Planning in a mixed economy

Unit-2: Planning and Market mechanism: Difference between planned and market economies; Role and nature of prices in planned economies, nature of planned prices State intervention versus liberalization and privatization; Development planning models; Capital-Output Ratio; Choice of techniques.

Unit-3: Project planning: Formulation and implementation of project, problems in project planning; Project evaluation: Project profitability analysis; Cost- benefit analysis; Shadow prices, optimization in planning-Linear programming, manpower planning

Unit-4 Models in Indian Plan: From first to Ninth five year plan; factors leading to the adoption of different models in different five year plans; Instruments of Indian Planning: Direct controls, Indirect controls, redefining the role of the state

Recommended Reading List

Bhagwati, J. and P. Desai (1970), India: Planning for Industrialization, Oxford University Press, London

Brahmananda, P.R. and C.N. Vakil (1956), Planning for an Expanding Economy, Vora and Co., Bombay

Chakravarti, S. (1987), Development Planning: The Indian Experience, Clarendon Press, Oxford.

Chakravarti, S. (1987), Development Planning: The Indian Experience, Clarendon Press, Oxford
Gupta, S.P.(1989), Planning and Development in India ; A Critique, Allied Publishers Private Limited, New Delhi .

Krishnamachari, V.T. (1962); Fundamental of Planning in India, Orient Longmans, Bombay.

O.S Shrivastava (1996), Economics of Growth, Development and Planning, Vikas Publishing house Pvt. Ltd, Delhi

Taneja, Myer (2008), Economics of Development and Planning, Vishal publication, Delhi

Todaro, M.P. (1971), *Development Planning: Models and Methods*, Oxford University Press, Oxford.

ENVIRONMENTAL ECONOMICS

Course Title: Environmental Economics

Course code: **SOS/ECO (E) / 404(e)**

Credits: 3 (Three)

Maximum Marks: 100

(a) End-semester Examination: 60 Marks

(b) Sessional Assessment: 40 Marks

Duration of End-semester Examination: 2 Hours

SYLLABUS

Unit-1: Environment and Development: Economic growth and environment; Environmental pollution: Causes and degradation of ecosystem and environment, policies and measures for controlling pollution; Agricultural ecology and environment; Industrial ecology and environment; Intellectual Property Rights and environment, IPR and WTO

Unit-2: Ecology and Economics: Inter-linkages between ecology and economics; Economics of natural resources (land, forest, water etc.): Biodiversity and natural resource management and conservation; Economic valuation and accounting of natural resources.

Unit-3: Environment and Sustainable Development: Concept and sustainability of economic development; Policy approach of sustainable development; Macroeconomic policies and management of sustainable development and institutions; Climate change: concept and issues

Unit-4: Environment and Natural Resource Management in India: Role of state in environmental conservation; Environmental legislation in India; Joint forest management and social forestry; People's participation in the management of natural resources.

Recommended Reading List

Bhattacharya, RN (ed) Environmental Economics: An Indian Perspectives, Oxford New Delhi

Boumal, W.J. and W.E. Oates, (1998), The Theory of Environmental Policy, Cambridge University Press.

Bromely, D.W. (ed) Hand Book of Environmental Economics, Blackwell, London

Clifford, S.R. (2001), Applying Economics to the Environment, Oxford University Press

- Goldin, Ian and L. Allan Winters, ed., (1995), *The Economics of Sustainable Development*, Cambridge University Press.
- Hankey, N.J. F. Shogerman and B White, *Environmental Economics in Theory and Practice*, Oxford New Delhi
- Ian, J (2002), *Environmental Economics Applications: A Cost Benefit analysis*, Cambridge University press
- Keith, C. (2000) *Economic Development and Environmental gain*, Earth Scan Publication Ltd
- Kolstad, C.D., *Environmental Economics*, Oxford New Delhi New Delhi
- Mauriec, S. and Kofi Annan, (2001) 'Where on Earth Are we going?', Texere
- Ministry of Environment, Government of India, *Annual Progress Report*
- P. Das Gupta and K. G. Miler, (1997) *The Environment and Emerging Development Issues*.
- Pearce, David and et al, (1990) *Sustainable Development: Economics and Environment in the Third World*, Edward Elgar Publishers Ltd.
- Pearce, D.W. (1997) *Environmental Economics*, Long man group Ltd.
- Ram Prasad Sen Gupta (2007) *Ecology and Economics*, Oxford New Delhi
- Seneca, Joseph, J, Taussig M.K. (1979), *Environmental Economics*, New Jersey, Prentice Hall.
- UNDP, *Human Development Reports*, various issues
- World Bank, *World Development Report*, various issues

ECONOMETRICS-II

Course Name: Econometrics-II

Course No: SOS/ECO(E) 404 (f)

Maximum Marks: 100

Credits: 3 (Three)

(a) Semester Examination: 60 Marks

Duration of Examination: 2 Hours

(b) Sessional Assessment: 40 Marks

SYLLABUS

Unit-1: *Problems in estimation of parameters with OLS method*: Autocorrelation – Nature, consequences, tests (DW – *d* test), solutions; Heteroscedasticity – Nature, consequences, tests and solutions.

Unit-2: *Problems in estimation of parameters with OLS method*: Multicollinearity - Nature, consequences, tests (Frisch's Confluence method, Farrar-Glauber method), Solutions - Method of Restricted Least Squares, Method of Pooling Cross-section and Time-series data.

Unit-3: *Problems of Lagged variables*: Role of time-lags in economics; Estimation of Distributed Lag Models – Koyck model and its rationalization; Almon approach.

Unit-4: ILS, 2-SLS, 3-SLS and Maximum Likelihood methods of estimation.

Recommended Reading List

Amemiya, T. (1985), *Advanced Econometrics*, Harvard University Press, Cambridge, Mass.

Baltagi, B.H. (1998), *Econometrics*, Springer, New York.

Dougherty, C. (1992), *Introduction to Econometrics*, Oxford University Press, New York.

Goldberger, A.S. (1998), *Introductory Econometrics*, Harvard University Press, Cambridge, Mass.

Gujarati, D.N. (1995), *Basic Econometrics (2nd Edition)*, McGraw Hill, New Delhi.

Hill R. C., E.G. William and G.G. Judge (1997), *Undergraduate Econometrics*, Wiley, New York.

- Kennedy. P. (1998), A Guide to Econometrics (4th Edition), MIT Press, New York.
- Kmenta, J. (1997), Elements of Econometrics (Reprint Edition), University of Michigan Press, New York.
- Koutsoyiannis, A. (1977), Theory of Econometrics (2nd ed.), The Macmillan Press Ltd., London.
- Krishna, K.L. (Ed.) (1997), Econometric Applications in India, Oxford University Press, New Delhi.
- Maddala, G.S. (Ed.) (1993), Econometrics Methods and Application (2 Vols.), Aldershot U.K.
- Theil, H. (1981), Introduction to Econometrics, Prentice Hall of India, New Delhi

FIELD STUDY AND PROJECT WORK

Course Title: Field Study and Project Work

Course code: **SOS/ECO (E) / 404(g)**

Credits: 3 (Three)

Maximum Marks: 100

Note: Any student can elect the field study or Project Work course. Student electing the course have to undergo a Seven days field study. The field study will aim at studying the major issues and problems related to different sectors of economy of India and Uttarakhand. **The study will largely be based on the collection of primary data and observation.** At the end of the field study the student have to submit a field study Report to the department.

Method of Evaluation:

Performance of student in project work will be evaluated on the following three basis:

(a) Project Report (By external and internal experts)	60 Marks
(b) Viva-voce (By external expert)	20 Marks
(c) Periodical presentation (by supervisor-internal expert)	<u>20 Marks</u>
Total:	100 Marks

Note: Name of the external expert will be decided by the University.