

**MOHANLAL SUKHADIA UNIVERSITY**

**UDAIPUR (RAJ.)**

**SYLLABUS**

**SCHEME OF EXAMINATION AND COURSES OF STUDY**

**FACULTY OF SOCIAL SCIENCE**



**M.A. Economics**



## MOHANLAL SUKHADIA UNIVERSITY: UDAIPUR

### MASTER OF ECONOMICS 2010-11

- 1. Duration of the Course:** The Master of Economics course will be of four-semester duration to be conducted in two years. Each semester will be of approximately five months (minimum 90 working days in a semester) duration.
- 2. Eligibility:** Candidates seeking admission to the first semester of Master of Economics must have a B.A./B. Com/B.Sc. degree with 50% marks at their graduation level from a recognized university.
- 3. Admission:** Admission will be made on the basis of the fifty percent weightage to the marks obtained in the entrance examination conducted by the University and fifty percent weightage to total theory marks obtained at the graduation level (Total marks of graduation excluding practical marks). The entrance examination shall consist of a test on mathematical ability (25%), mental ability (25%) and economics (48%). The entrance test will be of 2 hrs duration and will carry 100 marks. There will be total questions of objective type. (Each correct answer carrying 1 mark). Outline for the admission test is given in Appendix–A. The standard of the syllabus of the entrance test is that required by the candidate to pursue the MA (Economics) course.
- 4. Seats:** 40 seats.
- 5. Course structure**

Paper No.	Paper Code	Paper Name	L-T-P	Max. Marks		
				Ext.	Int.	Total
<b>SEMESTER-I</b>						
I	MEC101	Economic Theory	3-1-0	75	25	100
II	MEC102	Monetary Economics	3-1-0	75	25	100
III	MEC103	Quantitative Economics	3-1-0	75	25	100
IV	MEC104	Public Economics	3-1-0	75	25	100

Paper No.	Paper Code	Paper Name	L-T-P	Max. Marks		
				Ext.	Int.	Total
Elective-I (Any one from following)						
V-A	MEC105A	Labour Economics	3-1-0	75	25	100
V-B	MEC105B	Mathematical Economics	3-1-0	75	25	100
V-C	MEC105C	Agriculture Economics	3-1-0	75	25	100
Total			15-5-0	375	125	500
<b>SEMESTER-II</b>						
I	MEC201	Micro Economics	3-1-0	75	25	100
II	MEC202	Macro Economics	3-1-0	75	25	100
III	MEC203	Quantitative Techniques for Economics	3-1-0	75	25	100
IV	MEC204	Indian Public Finance	3-1-0	75	25	100
Elective-II (Any one from following)						
V-A	MEC205A	Issues of Labour in India	3-1-0	75	25	100
V-B	MEC205B	Mathematical Methods for Economics	3-1-0	75	25	100
V-C	MEC205C	Issues of Agriculture in India	3-1-0	75	25	100
Total			15-5-0	375	125	500
<b>SEMESTER-III</b>						
I	MEC301	Indian Economic Policy	3-1-0	75	25	100
II	MEC302	Growth Economics	3-1-0	75	25	100
III	MEC303	International Trade	3-1-0	75	25	100
IV	MEC304	Economics of Social Sector	3-1-0	75	25	100
Elective-III (Any one from following)						
V-A	MEC305A	Industrial Economics	3-1-0	75	25	100
V-B	MEC305B	Econometrics	3-1-0	75	25	100
V-C	MEC305C	Demography	3-1-0	75	25	100
V-D	MEC305D	Computer in Economics	1-0-2	75	25	100
Total			15-5-2	375	125	500

Paper No.	Paper Code	Paper Name	L-T-P	Max. Marks		
				Ext.	Int.	Total
<b>SEMESTER-IV</b>						
I	MEC401	Indian Economic Problems	3-1-0	75	25	100
II	MEC402	Development Economics	3-1-0	75	25	100
III	MEC403	International Commercial Policy and Finance	3-1-0	75	25	100
IV	MEC404	Economics of Environmental Management	3-1-0	75	25	100
Elective-IV (Any one from following)						
V-A	MEC405A	Indian Industrial Economics	3-1-0	75	25	100
V-B	MEC405B	Econometrics for Economics	3-1-0	75	25	100
V-C	MEC405C	Issues of Demography in India	3-1-0	75	25	100
V-D	MEC405D	Computer Application for Economics	1-0-2	75	25	100
V-E	MEC405E	Dissertation	0-3-0	75	25	100
Total			15-7-2	375	25	500
<b>Grand Total</b>			<b>60-22-4</b>	<b>1500</b>	<b>500</b>	<b>2000</b>

## 6. Scheme of instruction

Each semester will be of five months (90 working days) duration. Instruction in each paper is divided into Lectures and Tutorials. Practical instructions are also added to the paper of computer application where separate Lab works are not assigned so that Lab assignments required in that paper can be carried out in the computer Lab.

### 6.1 Theory

Class from instruction as per lecture schedule announced at the beginning of the course.

## **6.2 Tutorials**

Tutorials will be conducted for following:

- (i) To give classroom instructions in topics already covered in lectures but students requires detailed explanation/examples.
- (ii) Working out problems, program, demonstration etc. to make students understand the topics.
- (iii) Quiz to get feedback on understanding of the students in a topic.

## **6.3 Computer practical**

Students are expected to work in the laboratory for 24 hrs/week carrying out practical assignments and projects. Faculty guidance will be available as per practical hours allotted for each paper.

## **6.4 Communication skill and personality development**

Students will be required to undergo communication skill and personality development program in the first semester. Students will be required to attend either regular classes/workshop/Add-on course of 60 to 80 hrs duration before the final semester examination. No students shall be allowed to appear in the final semester examination unless they produce certificate of satisfactorily completion of the course in communication skill and personality development program. If required 6 hrs/week classes may be conducted by the department.

## **6.5 Seminar**

Students are required to give one seminar in each semester (10 to 15 minutes) using Audio visual aids. They will be required to submit detailed written work on the seminar topic. Each teacher giving instructions to the students will be giving one lecture each in each semester to provide latest developments, techniques etc. Attendance in all the seminars by the students is compulsory. Marks proportionate to their absence will be deducted from seminar component of the internal marks.

## **6.6 Assignments**

Teachers will give regular assignments to the students to assess in the topics. Students will be required to complete the same within the stipulated period.

## **6.7 Dissertation**

Dissertation may be offered by students only in the lieu of one elective paper in forth semester. Only these candidates will be allowed to offer dissertation who have secured at least 50% marks in the aggregate at the previous semesters. Dissertation shall be type written and submitted in triplicate t the Controller of Examination at least two weeks before the commencement of examination without late fee. There shall be presentation of research work for internal assessment before the departmental committee.

## **7. Attendance**

Regular attendance of the student is an important factor in the semester system. No candidate can be allowed to appear in the End Semester Examination as a regular student unless he/she has attended the course regularly.

**7.1** Regular 100% attendance is expected of all students for every course in theory, laboratory and seminar. Hence attendance is compulsory and will be monitored in the semester and students will be informed at the end of the month and end of semester.

**7.2** A maximum of 25% absence for the attendance may be condoned only on valid grounds such as illness, death in family or other emergency beyond students control and approved by the Head of the Department/Course Director. Sanctions are to be taken within a week after joining.

**7.3** For students participating in Sports/Cultural event/NCC camps during a semester the maximum number of days of absence shall not exceed 8 days. Any waiver in this context shall be on the recommendation of the Dean – Student Welfare and the student will be required to apply in advance for the leave to the Head/Course Director through Faculty Advisor/Course Co-ordinator.

**7.4** If a candidate is absent from the semester for a period more than one week without prior notice, admission of the candidate in the course will get terminated automatically. If a candidate is absent due to medical reason, the same must be intimated to the Head/Course Director well in time. However, he/she will not be entitled for any exemption from the attendance requirements of the semester.

**7.5** If attendance of a candidate in a paper is less than 75%, his/her internal assessment will be marked zero and a candidate may be allowed to appear in those papers in which his/her attendance is less than 75% subject to the condition that NC will be marked in these papers to indicate “attendance is short so allowed to appear as Non-Collegiate”. However, no such candidates will be allowed to appear in the practical examinations on account of the insufficient laboratory training received by the candidate due to his absence from laboratory.

## **8. Examination scheme**

**8.1** University shall conduct examinations only after completion of instructions as per course structure of each semester. External examination may be conducted on consecutive working days without any gap.

**8.2** Each theory paper shall be of 100 marks (75 marks for written examination of 3 hrs duration and 25 marks for internal assessment).

**8.3** Each practical paper shall be of 100 marks (75 marks for semester practical examination of six hours duration and 25 marks for internal assessment).

**8.4** The question paper shall consist three parts. Part-A will contain ten short answer type questions for which answer must be provided within 20 words for each. Part-B will consist five questions (which requires answers in 250 words for each), one from each unit with internal choice. Part-C will consist four long answer type questions (500 words each) out of which candidates will be required to answer two.

**8.5** The internal marks will be awarded by the teacher concerned and will be put for consideration of a committee consisting of Head/Course Director, Teacher concerned and a nominee of Vice-Chancellor for final award the internal marks. Internal marks will be displayed on the notice board and grievance will be invited from the students before final award by the committee. The committee will ensure that norms given for internal evaluations are followed in the award of internal marks for each theory and practical paper.

**8.6** To ensure that questions are put within the scope of the course, following materials must be sent to examiners to set question papers.

(a) Prescribed syllabus of the paper

(b) Detailed lecture schedule (Minimum 40 Lectures and Tutorials) giving the chapter/section of the textbooks and Reference book

(c) Model Question paper.

## **9. Internal evaluation scheme to award internal marks**

**9.1 Assignments:** 40% of the internal assessment marks for each theory paper will be awarded on the basis of the performance in the assignments regularly given to the students.

**9.2 Internal examination:** 40% of the total assessment marks for each theory paper will be awarded on the basis of the performance in the written examination conducted by the faculty, one at the end of the two months and another at the end of the semester.

**9.3 Seminar and oral examination:** 20% of the total internal assessment marks for each paper will be awarded on the basis of the performance in a seminar and Internal viva examination. At least one Internal Viva Voice examination per paper will be conducted by a committee consisting local examiners preferably during internal examination.

**Note:** Candidate who attends less than 75% of the total classes conducted in a paper will be awarded zero marks in the internal marks of that paper.

**9.4** Students are required to keep record of the assignments, Seminars and answer books of the internal examinations and present them at the end of the semester to the advisory board of the course. The attendance/Lab log book and performance sheet of each student will be examined by the board. The internal marks awarded by the teacher will be moderated by the advisory board if necessary.

**10. Minimum passing marks and criteria for promotion to next higher semester**

**10.1** The minimum marks for passing a semester shall be 40% in each paper and 50% marks in the aggregate.

**10.2** A candidate may be promoted to the next semester if he or she has secured at least 40% marks in each papers but has failed to secure 50% marks in aggregate. He/she shall be required appear in one or more of the papers of the papers as and when these papers are offered again by the university so as to satisfy the passing criteria laid in 9 (a). However, candidate will not be allowed to reappear in the practical papers to improve the percentage.

**10.3** A candidate may be promoted to the next semester if he/she has secured at least 40% marks in four papers prescribed in the first semester, provided that aggregate of marks in all papers together is at least 50%. Such candidate shall be required to appear in papers in which he/she has secured less than 40% marks when these courses are offered again so as to satisfy the passing criteria laid in 9 (a).

**10.4** A candidate fails to satisfy the criteria 9 (a), and 9 (c) for promotion to next higher semester shall be required to rejoin the semester in which he/she has failed to satisfy the above criteria, if otherwise eligible in accordance with the university regulations laid in this regard.

- 10.5** In case result of a semester is not declared by the university, before the starting of the next higher semester, the students who have appeared in all the papers in the semester will be allowed to attend the class of the next higher semester at their own risk. Candidates who are not eligible to be promoted to the next higher semester will have to leave that semester.
- 10.6** If a candidate whose attendance is less than 75% in a paper is allowed to appear in the theory papers in the End Semester Examination, his or her Internal marks in the paper will be set to zero and “NR” will be marked against the paper in which his/her attendance is less than 75%.

#### **11. Award of Division**

At the end of final examination the candidate's eligible for the award of M.A. Degree in Economics. Degree shall be classified on the basis of the marks obtained in the first, second, third and fourth semester examination taken together, as follows:

- (a) First division with distinction:** 75% or more marks in the aggregate and provided the candidate has passed all the papers and examination in the first attempt.
- (b) First division:** 60% or more marks but fails to satisfy criteria being classified as first division with distinction laid in (a).
- (c) Second division:** All other than those included in (a) and (b) above.

A candidate must pass the M.A. examination within three years of the initial admission to the first semester of the course.

**MEC101**

**M.A. ECONOMICS 2010-11  
SEMESTER – I  
Paper – I  
ECONOMIC THEORY**

**Unit – I**

Economic Models; Characteristics of equilibrium and disequilibrium system. Theory of Demand, Indifference Curve, Consumer's Equilibrium, Income and Substitution effects, Price, Cross, Income of Demand, Elasticity of Supply.

**Unit – II**

Slutsky Theorem, Compensated Demand Curve and their application, Revealed Preference Theory; Revision of Demand Theory by Hicks, N-M Theory, Concept of Cob web Theorem.

**Unit – III**

Production Function – Short and Long period, Law of Variable Proportions and Returns to Scale, Isoquants – Least Cost Combination of Inputs, Economies of Scale, Elasticity of Factor Substitution, Euler's Theorem, Technical Progress and Production Function, Traditional and Modern Theories of Costs.

**Unit – IV**

Price and Output Determination – Perfect Market and Monopoly Market, Price Discrimination in Monopoly Market, Monopoly Control and Regulation, Monopolistic Competition – General and Chamberlin Approach to Equilibrium, Selling Costs, Excess Capacity.

**Unit – V**

Oligopoly, Non-Collusive Solutions – Cournot, Chamberlin, Paul Sweezy's, kinked demand curve and Stackelberg model, Collusive solutions – Cartel and mergers, Price Leadership, Price and Output Determination under Monopsony and Bilateral Monopoly.

### Basic Reading List

1. Ahuja, H.L. – Advanced Economic Theory, S. Chand and Company, New Delhi.
2. Misra and Puri – Advanced Economic Theory, Himalaya Publishing Company, Bombay.
3. Jhingan, M.L. – Advance Economic Theory, Vrinda Publication, New Delhi.
4. Koutsoyiannis, A. – Modern Microeconomics (2<sup>nd</sup> Edition), Macmillan Press, London.
5. Sen, A. (1999) – Microeconomics: Theory and Applications, Oxford University Press, New Delhi.
6. Stigler, G. (1996) – Theory of Price (4<sup>th</sup> edition), Prentice Hall of India, New Delhi.
7. Henderson, J.M. and R.E. Quandt (1980) – Microeconomic Theory: A Mathematical Approach, McGraw Hill, New Delhi.
8. Pindyck, R.S. and Daniell L. Rubinfeld (2000) – Microeconomics (3<sup>rd</sup> Edition), Prentice Hall of India, New Delhi.
9. Barla, C.S. – Advanced Micro Economics, National Publishing House, Jaipur, New Delhi.
10. Hirshleifer, J. and A. Glazer (1977) – Price Theory and Applications, Prentice Hall of India, New Delhi.
11. Baumol, W.J. (1982) – Economic Theory and Operations Analysis, Prentice Hall of India, New Delhi.
12. Bose, D., S.K. Misra and Puri – Advanced Microeconomic Theory, Himalaya Publishing Company, New Delhi.
13. आहुजा, एच. एल. – उच्चतर व्यष्टि अर्थशास्त्र, एस. चन्द एण्ड कम्पनी, नई दिल्ली।
14. झिंगन, एम. एल. – व्यष्टि अर्थशास्त्र, वृन्दा पब्लिकेशन, नई दिल्ली।
15. सेठ, एम. एल. – माइक्रो अर्थशास्त्र, लक्ष्मीनारायण अग्रवाल, आगरा।

**MEC102**

**M.A. ECONOMICS 2010-11**  
**SEMESTER – I**  
**Paper – II**  
**MONETARY ECONOMICS**

**Unit – I**

Classical and Keynesian Theories of Money Demand, Financial Intermediation – A Mechanistic Model of Bank Deposits Determination, RBI approach to Money Supply, High Powered Money and Money Multiplier, Control of Money Supply.

**Unit – II**

Quantity Theory of Money – Fisher's equation and Cambridge approach, Keynesian Restatement of Quantity Theory of Money, Its superiority over Traditional Theory and its criticism.

**Unit – III**

Post Keynesian approaches to Demand for Money – Patinkin and the Real Balance Effect, Approaches of Baumol and Tobin, Friedman and Modern Quantity Theory, Crisis in Keynesian Economics and Revival of Monetarism.

**Unit – IV**

The IS-LM model – Derivation of LM curve and IS curve, Neo-classical and Keynesian view of Interest, Extension of IS-LM model with government sectors, Relative Effectiveness of Monetary and fiscal policies.

**Unit – V**

Business Cycle Theories – Schumpeter, Kaldor, Samuelson and Hick's Theories, Control of Business Cycles, Relative effectiveness of Monetary and Fiscal Policies.

### **Basic Reading List**

1. Ackley, G. (1978) – Macroeconomics: Theory and Policy, McMillan, New York.
2. Shapiro, E. (1996) – Macroeconomic Analysis, Galgotia Publications, New Delhi.
3. Keynes, J. M. (1936) – The General Theory of Employment, Interest and Money, Macmillan, London.
4. Romar, D. L. (1996) – Advanced Macroeconomics, McGraw Hill Company Ltd., New York.
5. Patinkin, D. (1965) – Money, Interest and Prices, Harper and Row, New York.
6. Culbertson, J. M. (1968) – Macroeconomic Theory and Stabilization Policy, McGraw Hill, Kogekosh, Tokyo.
7. Branson, W. A. (1989) – Macroeconomic Theory and Policy (3<sup>rd</sup> edition) Harper and Row, New York.
8. Friedman, M. (1957) – The Theory of Consumption Function, Princeton University Press, Princeton.
9. Hicks, J. R. (1950) – A contribution to the Theory of Trade Cycles, Clarendon Press, Oxford.
10. Hicks, J. R. (1974) – The Crisis in Keynesian Economics, Oxford University Press, New Delhi.
11. Frisch, H. (1983) – Theories of inflation, Cambridge University Press, Cambridge.
12. Turnovsky, S. J. (1977) – Macroeconomic Analysis and Stabilization Policy, Cambridge University Press, Cambridge.
13. Mithani, D.M. – Macroeconomics, Himalaya Publishing Company, New Delhi.
14. आहुजा, एच. एल. (2001) – उच्चतर समष्टि अर्थशास्त्र, एस. चन्द एण्ड कम्पनी लि., नई दिल्ली।
15. झिंगन, एम. एल. – समष्टि अर्थशास्त्र, वृन्दा पब्लिकेशन, नई दिल्ली।
16. वैश्य, एम. सी. – समष्टि अर्थशास्त्र, विकास पब्लिशिंग हाऊस प्राइवेट लि., नई दिल्ली।

**MEC103**

**M.A. ECONOMICS 2010-11  
SEMESTER – I  
Paper – III  
QUANTITATIVE ECONOMICS**

**Unit – I**

Simple Differentiation – Process of Differentiation, Rules of Differentiation, Implicit Differentiation and Partial Differentiation.

**Unit – II**

Integration – Simple rules of Integration, Definite Integration – Application to Cost and Revenue Functions and Consumer's Surplus.

**Unit – III**

Matrix – Concept of Matrix and their types, Simple operations on Matrices, Matrix Inversion and Rank of Matrix, Difference equation – First and Second Order.

**Unit – IV**

Concept of Simple and Partial Correlation, Meaning and definition of Simple Regression Analysis, Concept of Least Square Method and lines of Regression, Estimation of Regression Equation and Regression Co-efficient.

**Unit – V**

Definition of Probability – Laws of Addition and Multiplication, Conditional and concept of Interdependence, Concept of Binomial, Poisson and Normal Distribution (without derivation).

### Basic Reading List

1. Allen, R.G.D. (1974) – Mathematical Analysis for Economists, Macmillan Press and ELBS, London.
2. Chou, Y. (1975) – Statistical Analysis, Holt, Reinhart and Winston, New York.
3. Croxton, Crowden and Klein (1971) – Applied General Statistics, Prentice Hall of India, New Delhi.
4. Gupta, S. C. (1993) – Fundamentals of Applied Statistics, S. Chand and Sons, New Delhi.
5. Handry, A. T. (1999) – Operations Research, Prentice Hall of India, New Delhi.
6. Mehta & Madnani (2008) – Mathematics for Economists, Sultan Chand and Company, New Delhi.
7. Nagar, A. L. and R. K. Das (1993) – Basic Statistics, Oxford University Press, New Delhi.
8. Speigal, M. R. (1992) – Theory and Problems of Statistics McGraw Hill Book Co., London.
9. लक्ष्मीनारायण नाथूरामका – अर्थशास्त्र में गणित के प्रयोग, कॉलेज बुक हाऊस, जयपुर।
10. कैलाशनाथ नागर – सांख्यिकी के मूल तत्व, मिनाक्षी प्रकाशन, मेरठ।
11. मेहता एवं मदनानी – अर्थशास्त्र में प्रारम्भिक गणित, लक्ष्मीनारायण अग्रवाल, आगरा।

**MEC104**

**M.A. ECONOMICS 2010-11**  
**SEMESTER – I**  
**Paper – IV**  
**PUBLIC ECONOMICS**

**Unit – I**

Meaning, Scope and Significance of Public Finance, Distinction between Private and Public Finance, Role of Government in organized Society, Principle of Maximum Social Advantage.

**Unit – II**

Provision of Public Goods – Voluntary exchange models – Impossibility of decentralized provision of Public Goods (Samuelson's contribution), Demand revealing schemes for Public Goods (Clarke, Grove and Ledyard), Tie bout model, Theory of Club Goods, Social Goods for correcting distributional inequalities and regional imbalances, Impure Public Goods.

**Unit – III**

Private and Public Mechanisms for allocating resources – Problems of Preference Revelation and Aggregation of Preferences – Voting systems – Arrow Impossibility Theorem – Political – Economic Interactions – Group interest, bureaucracy, Rent seeking and Directly unproductive profit seeking activities.

**Unit – IV**

Public Revenue – Sources, Classification, Non-tax revenue, Tax – Meaning, Types, Canons of Taxation, Objectives of Taxation, Problems of Justice in Taxation, Taxable capacity, Economic effects of Taxation, Incidence and Shifting of Taxation, Ability to Pay Theory.

**Unit – V**

Public Expenditure – Meaning and nature, Wagner's Law of increasing state activity, Wiseman-Peacock hypothesis, Pure theory of Public Expenditure, Comparison between private and public expenditure, Kinds of Public Expenditure, Canons of Public Expenditure, Effects of Public Expenditure.

### **Basic Reading List**

1. Buchanan, J. M. (1970) – The Public Finances, Richard D., Irwin, Homewood.
2. Herber, B. P. (1967) – Modern Public Finance, Richard D., Irwin, Homewood.
3. Jha, R. (1998) – Modern Public Economics, Routledge, London.
4. Musgrave, R. A. and P. B. Musgrave (1976) – Public Finance in Theory and Practice, McGraw Hill, Kogakusha, Tokyo.
5. Shoup, C.S. (1970) – Public Finance, Aldine, Chicago.
6. Stiglitz, J. E. (1986) – Economic of Public Sector, Norton, New York.
7. Mundle, S. (1999) – Public Finance Policy: Issues for India, Oxford University Press, New Delhi.
8. Bhatia, H. L. (Latest) – Public Finance: Theory and Practice, Vikas Publication House, New Delhi.
9. Barman, K. (1986) – Public Debt Management in India, Uppal Publishing House, New Delhi.
10. Bhargava, P. K. (1984) – Some Aspects of Indian Public Finances, Uppal Publishing House, New Delhi.
11. Chelliah, Raja J. *et al.* (1985) – Trends and Issues in India's Federal Finance, National Institute of Public Finance and Policy, New Delhi.
12. Andley, K.K. and K.P.M. Sundharam – Public Finance: Theory and Practice, S. Chand and Company, New Delhi.
13. Peacock, A. and D. J. Robertson (Eds.) (1963) – Public Expenditure: Appraisal and Control, Oliver and Boyd, Edinburgh.
14. Singh, T. (2000) – The Corporation Tax in India, Classical Publishing Company, New Delhi.

15. Bhargava, P. K. (1991) – India's Fiscal Crisis, Ashish Publishing House, New Delhi.
16. Gulati, I. S. (1979) – Centre State Financial Relations: An Assessment of the Role of Finance Commission, M.S. University of Baroda, Baroda.
17. Lakdawala, D. T. (1967) – Union State Financial Relations, Lalwani Publishing House, Mumbai.
18. Reports of Various Finance Commission:
  - (i) Government of India Budget (Latest)
  - (ii) Government of India Long term Fiscal Policy, New Delhi
19. सिंह, एस. के. – लोक वित्त, एस. चन्द एण्ड कम्पनी, नई दिल्ली।
20. पन्त, जे. सी. – राजस्व, लक्ष्मीनारायण अग्रवाल, आगरा।
21. वार्ष्णेय, जे. सी. – राजस्व, साहित्य भवन पब्लिकेशन, आगरा।
22. शर्मा, प्रेमप्रकाश – सार्वजनिक वित्त के सिद्धान्त, राधा पब्लिकेशन, नई दिल्ली।
23. भाटिया, एच.एल. – लोक वित्त, विकास पब्लिकेशन हाऊस, नई दिल्ली।

**MEC105A**

**M.A. ECONOMICS 2010-11**  
**SEMESTER – I**  
**Paper – V A**  
**ELECTIVE-I: LABOUR ECONOMICS**

**Unit – I**

Nature and Scope of Labour Economics, Labour Market – Forms and characteristics in India, Factors affecting demand and supply of labour, Labour Market Policies in India.

**Unit – II**

Productivity of Labour – Factors affecting productivity of Labour, Productivity and wage relationship, Migration, Absenteeism and Turnover in labour market, Efficiency of labour and productivity, Role of Rationalization and Automation.

**Unit – III**

Unemployment and development relationship; Unemployment – Concept, types and measurement with respect to India, Evaluation of Employment strategies, Employment policy.

**Unit – IV**

The Concept of Evaluation of Personal Management, Manpower planning in India, Methods of Recruitment and placement, Exit-policy and need for safety nets.

**Unit – V**

Wages – Meaning and Methods of wage payment, Theories of wage determination, Concept of minimum wage, living wage and fair wage, wage differentiations, Non-wage component of labour remuneration.

### **Basic Reading List**

1. Datta, G. (1996) – Bargaining Power, Wages and Employment: Analysis of Agricultural Labour Markets in India, Sage Publications, New Delhi.
2. Papola, T.S. and Rodgers, (Eds.) (1992) – Labour Institutions and Economic Development in India, International Institute for Labour Studies, Geneva.
3. Sen, A. K. (1975) – Employment, Technology and Development, Oxford University Press, New Delhi.
4. Solow, R. M. (1990) – Labour Market as an Institution, Blackwell, London.
5. Hicks, J. R. (1932) – The Theory of Wages, Clarendon Press, Oxford.
6. Misra, L. (2000) – Child Labour in India, Oxford University Press, New Delhi.
7. Lester, R. A. (1964) – Economics of Labour (2<sup>nd</sup> Edition), Macmillan, New York.
8. McConnell, C. R. and S. L. Bruce (1986) – Contemporary Labour Economics, McGraw Hill, New York.
9. Sinha, V.C.

**MEC105B**

**M.A. ECONOMICS 2010-11**  
**SEMESTER – I**  
**Paper – V B**  
**ELECTIVE-I: MATHEMATICAL ECONOMICS**

**Unit – I**

Cardinal and Ordinal Analysis, Ordinal Utility Maximisation, Slutsky Equation – Income, Substitution and Price Effects, Concepts of Elasticities, Generalisation to n variable case, Theory of Revealed Preference, Consumer Behaviour under Uncertainty, N-M Theorem.

**Unit – II**

Production Function – Stages of Production Function, Homogenous and Non-Homogeneous Production Function, Cobb-Douglas Production Function, C.E.S. Production Function. Concept of VES and Translog Production Function, Producer's equilibrium under constraints Laws of Returns of Scale.

**Unit – III**

Simple derivation of Short and Long run Cost Functions and their relations, Concept of modern approaches to Theory of Costs, The concept of Revenue Functions, Total, Average and Marginal Revenue, Relation between AR, MR and Elasticities.

**Unit – IV**

Price determination in Perfect Competition, Monopoly and Monopolistic Competition, Marshallian and Walrasian Equilibrium conditions and Stability of Equilibrium, General Equilibrium Model.

**Unit – V**

Pricing under Duopoly, The Cournot Model, The Bertrand Model, The Edgeworth Model, and the Stackelberg Model, Pricing of Factors of Production, Bilateral Monopoly.

### **Basic Reading List**

1. Allen, R.G.D. (1974) – Mathematical Analysis for Economists, Macmillan Press and ELBS, London.
2. Chiang, A.C. (1986) – Fundamental Methods of Mathematical Economics, McGraw Hill, New York.
3. Henderson, J. M. and R. E. Quandt (1980) – Microeconomic Theory: A Mathematical Approach, McGraw Hill, New Delhi.
4. Mehta, B. C. (1987) – Mathematical Economics: Microeconomic Models. Sultan Chand and Sons, New Delhi.
5. Madnani, G.M.K. (2008) – Mathematical Economics, Oxford and IBH Publishing Co. Pvt. Ltd., New Delhi.
6. Mehta-Madnani (2008) – Mathematics for Economists, Sultan Chand and Company, New Delhi.
7. Arrow, K. J. and M. Intrigator (Eds.) (1982) – Handbook of Mathematical Economics, Vol. I, II and III, North Holland, Amsterdam.
8. Chung, J. W. (1993) – Utility and Production: Theory and Applications, Basil Blackwell, London.
9. Ferguson, C. E. (1976) – Neo Classical Theory of Production and Distribution.
10. Hadley, G. (1962) – Linear Programming, Addison Wesley Publishing Co., Massachusetts.
11. Mankiw, N. G. and D. Romer (Eds.) (1991) – New Keynesian Economics (2 Vols.), MIT Press, Cambridge, Mass.
12. Nash, J. F. (1996) – Essays on Game Theory, Cheltenham, U.K.
13. अग्रवाल, एच. एस. – अर्थमिति एवं गणितीय अर्थशास्त्र, आर.बी.एस.ए. पब्लिशर्स, जयपुर।

**MEC105C**

**M.A. ECONOMICS 2010-11**  
**SEMESTER – I**  
**Paper – V C**  
**ELECTIVE-I: AGRICULTURE ECONOMICS**

**Unit – I**

Nature and Scope of Agricultural and Rural Economics, Role of Agriculture in Economic Development, Interdependence between Agriculture and Industry, Agriculture Development and Environment.

**Unit – II**

Agricultural Production – Resource use and efficiency, Production Function analyses in Agriculture, Factor combination and resource substitution, Cost and Supply Curves, Size of Farm and Laws of Returns, Farm Budgeting and Cost Concepts.

**Unit – III**

Livestock Economics – Livestock resources and their productivity, Dairy development, Fishery and Poultry development, Forestry; Horticulture and Floriculture.

**Unit – IV**

Agricultural Prices and Price policy of India; Terms of Trade between Agriculture and Non-Agriculture, Objectives, Fluctuations and method of Price Stabilization.

**Unit – V**

Strategy of Agricultural Development and Technological Progress, Sustainable Agriculture, Indigenous Practices, Bio-technological Practices and Group Potential, Need for second Green Revolution.

### **Basic Reading List**

1. Bilgrami, S.A.R. (1996) – An introduction to Agriculture Economics, Himalaya Publishing House, New Delhi.
2. Desai, R. G. (Latest) – Agriculture Economics, Himalaya Publishing House, New Delhi.
3. Rudra, A. (1982) – Indian Agricultural Economics: Myths and Reality. Allied Publishers, New Delhi.
4. Sadhu, A. N. and Amarjit Singh (Latest) – Fundamentals of Agriculture Economics, Himalaya Publishing House, New Delhi.
5. Saini, G.R. (1979) – Farm size, Resource Use Efficiency and Income Distribution, Allied Publishers, New Delhi.
6. Brahmananda, P. R. and V. R. Panchumukhi (1987) – The Development Process of the Indian Economy, Himalaya Publishing House, Bombay.
7. Raj, K. N. *et al.* (1988) – Essays in the Commercialisation of Indian Agriculture, Oxford University Press, New Delhi.
8. Subbarao, K. and De Janvry (1986) – Agriculture Price Policy and Income Distribution in India, Oxford University Press, New Delhi.
9. Bhalla, G. S. (1994) – Economic Liberalisation and Indian Agriculture Institute for Studies in Industrial Development, New Delhi.
10. Bhalla, G. S. (1994) – Economic Liberalisation and Indian Agriculture, Institute for Studies in Industrial Development, New Delhi.
11. Dhawan, B. D. (1988) – Irrigation in Indian Agriculture Development, Sage Publication, New Delhi.
12. Rao, C. H. Hanumantha (1994) – Agriculture Growth, Rural Poverty and Environmental Degradation in India, Oxford University Press, New Delhi.
13. Joshi, P. C. (1975) – Land Reforms in India: Trend and Prospects, Allied Publishers, Bombay.

14. Khusro, A. M. (1973) – The Economics of Land Reforms and Farm size in India, Macmillan, New Delhi.
15. Misra and Puri (2008) – Indian Economy, Himalaya Publishing Company, New Delhi.
16. Dutta, R. and Sundaram (2008) – Indian Economy, S. Chand and Company, New Delhi.
17. Hariharan, N. P. (2008) – Lights and Shades of Indian Economy, Vishal Publishing Company, Jalandhar.
18. Soni, R. N. (2008) – Leading Issues of Agriculture Economics, Vishal Publishing Company, Jalandhar.
19. Government of India – Reports of the National Commission on Agriculture, New Delhi.
20. Reserve Bank of India – Report of the Agricultural Credit Review Committee, Bombay.
21. Government of India – Economic Survey (Annual) Ministry of Finance.
22. अग्रवाल, एन. एल. – भारतीय कृषि का अर्थतंत्र, राजस्थान हिन्दी ग्रंथ अकादमी, जयपुर।
23. मिश्रा, जे. पी. – कृषि अर्थशास्त्र, साहित्य भवन पब्लिकेशन, आगरा।
24. दत्त एवं सुन्दरम – भारतीय अर्थव्यवस्था, एस. चन्द एण्ड कम्पनी, नई दिल्ली।
25. मिश्रा एवं पुरी – भारतीय अर्थव्यवस्था, हिमालय पब्लिशिंग कम्पनी, नई दिल्ली।
26. सोनी, आर. एन. – कृषि अर्थशास्त्र के मुख्य विषय, विकास पब्लिशिंग कम्पनी, जालंधर।

**MEC201**

**M.A. ECONOMICS 2010-11  
SEMESTER – II  
Paper – I  
MICRO ECONOMICS**

**Unit – I**

Critical evaluation of Marginal Analysis, Baumol's Sales Maximization Model, Williamson's Model of Managerial Discretion, Marris Model of Managerial Enterprise, Full Cost Pricing Rule, Bain's Limit Pricing Theory.

**Unit – II**

Neo-classical Approach – Marginal Productivity Theory, Elasticity of Technical Substitution, Theories of Distribution – Rent, Wages, Interest and Profit.

**Unit – III**

Need for Welfare Economics, Pigovian Welfare Economics, Pareto Optimal Conditions, Introduction to Amritya Sen's Welfare Economics, Social Welfare Function, Compensation Principal, Theory of Second Best – Arrows Impossibility Theorem.

**Unit – IV**

Partial and General Equilibrium, Walrasian Excess Demand and Input-Out Approach to General Equilibrium, Existence, Stability and Uniqueness of Equilibrium and General Equilibrium, Coalition and Monopolies, Rawls theory of Justice, Equity-efficiency Trade-off.

**Unit – V**

Theory of Decision Making Under Risk, Basic concepts, Expected Utility Model (EUM), Mean – Variance (E-V), Analysis and Portfolio Selection, Principles of Risk Management, Risk Aversion – Sensitivity Analysis, The Economics of Search, Information and Insurance.

### **Basic Reading List**

1. Ahuja, H.L. – Advance Economic Theory, S. Chand and Company, New Delhi.
2. Misra and Puri – Advanced Economic Theory, Himalaya Publishing Company, Bombay.
3. Ahuja, H.L. – Principles of Microeconomics, S. Chand and Company, New Delhi.
4. Jhingan, M.L. – Advance Economic Theory, Vrinda Publication, New Delhi.
5. Koutsoyiannis, A. – Modern Microeconomics (2<sup>nd</sup> Edition), Macmillan Press, London.
6. Sen, A. (1999) – Microeconomics: Theory and Applications, Oxford University Press, New Delhi.
7. Stigler, G. (1996) – Theory of Price (4<sup>th</sup> edition), Prentice Hall of India, New Delhi.
8. Sundharam, K.P.M. and M.C. Vaish – Micro Economic Theory, S. Chand and Company, New Delhi.
9. Henderson, J.M. and R.E. Quandt (1980) – Microeconomic Theory: A Mathematical Approach, McGraw Hill, New Delhi.
10. Pindyck, R.S. and Daniell L. Rubinfeld (2000) – Microeconomics (3<sup>rd</sup> Edition), Prentice Hall of India, New Delhi.
11. Barla, C.S. – Advance Micro Economics.
12. Hirshleifer, J. and A. Glazer (1977) – Price Theory and Applications, Prentice Hall of India, New Delhi.
13. Da Costa, G.C. (1980) – Production, Prices and Distribution, Tata McGraw Hill, New Delhi.
14. Green, H.A.G. (1971) – Consumer Theory, Penguin, Harmondsworth.

15. Baumol, W.J. (1982) – Economic Theory and Operations Analysis, Prentice Hall of India, New Delhi.
16. Mishan, E. J. (1969) – Welfare Economics: An Assessment North Holland, Amsterdam.
17. Quirk, J. and R. Saposnik (1968) – Introduction to General Equilibrium: Theory and Welfare Economics, McGraw Hill, New York.
18. Diamond and Rothschild (Eds.) (1978) – The Economics of Uncertainty, Princeton University Press, Princeton.
19. Bose, D., S.K. Misra and Puri – Advanced Microeconomic Theory, Himalaya Publishing Company, New Delhi.
20. आहुजा, एच. एल. – उच्चतर व्यष्टि अर्थशास्त्र, एस. चन्द एण्ड कम्पनी, नई दिल्ली।
21. झिंगन, एम. एल. – व्यष्टि अर्थशास्त्र, वृन्दा पब्लिकेशन, नई दिल्ली।
22. सेठ, एम. एल. – माइक्रो अर्थशास्त्र, लक्ष्मीनारायण अग्रवाल, आगरा।

**MEC202**

**M.A. ECONOMICS 2010-11  
SEMESTER – II  
Paper – II  
MACRO ECONOMICS**

**Unit – I**

National Income – Concepts, Circular flow of Income in two, three and four sector Economy, Different forms of National Income Accounting – Social Accounting, Input-output Accounting, Flow of Funds Accounting and Balance of Payment Accounting.

**Unit – II**

Keynes' Psychological Law of Consumption, implications of the Law, Short Term and Long Run Consumption Function, Income Consumption Relationship – Absolute Income, Relative Income, Life Cycle and Permanent Income Hypothesis.

**Unit – III**

Investment – Marginal Efficiency of Investment, Marginal Efficiency of Capital – Long Run and Short Run, The Accelerations and Investment Behaviour, Financial theories of Investment.

**Unit – IV**

Adaptive Expectations and Rational Expectations, Neo Classical Approach to Macro Economics, Criticism of New Classical Macro Economics.

**Unit – IV**

Inflation – Meaning, Causes and Effects of Inflation Structuralist Theory of Inflation, Philips Curve Analysis, Tobin's Modified Philips Curve, Policy to Control Inflation.

### **Basic Reading List**

1. Ackley, G. (1978) – Macroeconomics: Theory and Policy, McMillan, New York.
2. Shapiro, E. (1996) – Macroeconomic Analysis, Galgotia Publications, New Delhi.
3. Keynes, J. M. (1936) – The General Theory of Employment, Interest and Money, Macmillan, London.
4. Romar, D. L. (1996) – Advanced Macroeconomics, McGraw Hill Company Ltd., New York.
5. Patinkin, D. (1965) – Money, Interest and Prices. Haper and Row, New York.
6. Culbertson, J. M. (1968) – Macroeconomic Theory and Stabilization Policy, McGraw Hill, Kogenkoshi, Tokyo.
7. Branson, W. A. (1989) – Macroeconomic Theory and Policy (3<sup>rd</sup> edition), Harper and Row, New York.
8. Friedman, M. (1957) – The Theory of Consumption Function, Princeton University Press, Princeton.
9. Duesenberry, J. S. (1949) – Income saving and the Theory of Consumer Behaviour, Harvard University Press, Harvard.
10. Hicks, J. R. (1950) – A contribution to the Theory of Trade Cycles, Clarendon Press, Oxford.
11. Hicks, J. R. (1974) – The Crisis in Keynesian Economics, Oxford University Press, New Delhi.
12. Frisch, H. (1983) – Theories of inflation, Cambridge University Press, Cambridge.

13. Turnovsky, S. J. (1977) – Macroeconomic Analysis and Stabilization Policy, Cambridge University Press, Cambridge.
14. Mithani, D.M. – Macroeconomics, Himalaya Publishing Company, New Delhi.
15. आहुजा, एच. एल. (2001) – उच्चतर समष्टि अर्थशास्त्र, एस. चन्द एण्ड कम्पनी लि., नई दिल्ली।
16. झिंगन, एम. एल. – समष्टि अर्थशास्त्र, वृन्दा पब्लिकेशन, नई दिल्ली।
17. वैश्य, एम. सी. – समष्टि अर्थशास्त्र, विकास पब्लिशिंग हाऊस प्राइवेट लि., नई दिल्ली।

**MEC203**

**M.A. ECONOMICS 2010-11**  
**SEMESTER – II**  
**Paper – III**  
**QUANTITATIVE TECHNIQUES FOR ECONOMICS**

**Unit – I**

Total Differentiation, Application of Derivatives – Order Condition of Maximum and Minimum, Utility Maximization, Profit Maximization with Tax and Subsidy, Elasticity – Price, Income and Substitution.

**Unit – II**

Determinants and their Properties, Solution of Simultaneous Equations through Cramer's Rule and Matrix Method.

**Unit – III**

Concept of Sampling – Random and Non-random Sampling, Sampling and Non-random sampling error, Formulation of Statistical Hypothesis – Type-I and Type-II Error. Data Collection – Primary and Secondary Sources.

**Unit – IV**

Test of Significance – Parametric V/s Non-parametric Test, Parametric Test – Hypothesis Testing based on t, Z and F test.

**Unit – V**

Non-parametric Test – Hypothesis Testing based on  $\chi^2$  (chi-square) and Sign Test. Concept of Qualitative Test, Likert Scale Technique, Concept of ANOVA.

### Basic Reading List

1. Allen, R.G.D. (1974) – Mathematical Analysis for Economists, Macmillan Press and ELBS, London.
2. Chou, Y. (1975) – Statistical Analysis, Holt, Reinhart and Winston, New York.
3. Croxton, Crowden and Klein (1971) – Applied General Statistics, Prentice Hall of India, New Delhi.
4. Gupta, S. C. (1993) – Fundamentals of Applied Statistics, S. Chand and Sons, New Delhi.
5. Handry, A. T. (1999) – Operations Research, Prentice Hall of India, New Delhi.
6. Mehta Madnani (2008) – Mathematics for Economists, Sultan Chand and Company, New Delhi.
7. Nagar, A. L. and R. K. Das (1993) – Basic Statistics, Oxford University Press, New Delhi.
8. Speigal, M. R. (1992) – Theory and Problems of Statistics McGraw Hill Book Co., London.
9. Yamane, Taro (1975) – Mathematics for Economists, Prentice Hall of India, New Delhi.
10. सुदामा सिंह, ओ. पी. सिंह एवं वाई. के. सिंह – अर्थशास्त्रीय गणित एवं प्रारम्भिक सांख्यिकी, राधा पब्लिकेशन, नई दिल्ली।
11. लक्ष्मीनारायण नाथूरामका – अर्थशास्त्र में गणित के प्रयोग, कॉलेज बुक हाऊस, जयपुर।
12. कैलाशनाथ नागर – सांख्यिकी के मूल तत्व, मिनाक्षी प्रकाशन, मेरठ।
13. मेहता एवं मदनानी – अर्थशास्त्र में प्रारम्भिक गणित, लक्ष्मीनारायण अग्रवाल, आगरा।

**MEC204**

**M.A. ECONOMICS 2010-11  
SEMESTER – II  
Paper – IV  
INDIAN PUBLIC FINANCE**

**Unit – I**

Budget – Different Concepts and Kinds, Budgeting and Budget Policy, Gender Budgeting, Incremental Budgeting, Zero Base Budgeting, Multiplier, Programme Budgeting, Performance Budgeting, Budgetary Deficit, Measurement and Implications, Features of Indian Budget.

**Unit – II**

Indian Tax System, Ratio of Tax Revenue to National Income, Revenue sources of Union, States and Local Bodies, Issues of Taxation in India, Analysis of Latest Union Budget, Trends in Public Expenditure in India, Tax Reforms in India.

**Unit - III**

Public Debt – Meaning, Public and Private Debt, Sources of Public Debt, Burden of Public Debt Public Debt V/s Taxation, Public Debt and Economic Growth, Debt Redemption, Principles of Debt Management, Deficit Financing, Public Debt in India.

**Unit – IV**

Fiscal Policy – Objectives, Interdependence of Fiscal and Monetary Policies, Fiscal Policy for Stabilization – Automatic V/s Discriminatory Stabilization, Fiscal Policy for Development, Alternative Measures of Resource Mobilization and their Impact on Growth, Distribution and Prices.

**Unit – V**

Fiscal Federalism – Financial Issues in a Federal Set Up, Principles for Effective Division of Financial Resources between Governments, The Problem of Financial Imbalance – Vertical and Horizontal Imbalance, Finance Commission and Planning Commission, Federal Financial Adjustments, Centre – State Financial relations in India, Report of latest Financial Commission.

### **Basic Reading List**

1. Buchanan, J. M. (1970) – The Public Finances, Richard D., Irwin, Homewood.
2. Herber, B. P. (1967) – Modern Public Finance, Richard D., Irwin, Homewood.
3. Jha, R. (1998) – Modern Public Economics, Routledge, London.
4. Musgrave, R. A. and P. B. Musgrave (1976) – Public Finance in Theory and Practice, McGraw Hill, Kogakusha, Tokyo.
5. Shoup, C.S. (1970) – Public Finance, Aldine, Chicago.
6. Stiglitz, J. E. (1986) – Economic of Public Sector, Norton, New York.
7. Mundle, S. (1999) – Public Finance Policy: Issues for India, Oxford University Press, New Delhi.
8. Bhatia, H. L. (Latest) – Public Finance: Theory and Practice, Vikas Publication House, New Delhi.
9. Barman, K. (1986) – Public Debt Management in India, Uppal Publishing House, New Delhi.
10. Bhargava, P. K. (1984) – Some Aspects of Indian Public Finances, Uppal Publishing House, New Delhi.
11. Chelliah, Raja J. *et al.* (1985) – Trends and Issues in India's Federal Finance, National Institute of Public Finance and Policy, New Delhi.
12. Andley, K.K. and K.P.M. Sundharam – Public Finance: Theory and Practice, S. Chand and Company, New Delhi.
13. Peacock, A. and D. J. Robertson (Eds.) (1963) – Public Expenditure: Appraisal and Control, Oliver and Boyd, Edinburgh.
14. Singh, T. (2000) – The Corporation Tax in India, Classical Publishing Company, New Delhi.

15. Bhargava, P. K. (1991) – India's Fiscal Crisis, Ashish Publishing House, New Delhi.
16. Gulati, I. S. (1979) – Centre State Financial Relations: An Assessment of the Role of Finance Commission, M.S. University of Baroda, Baroda.
17. Lakdawala, D. T. (1967) – Union State Financial Relations, Lalwani Publishing House, Mumbai.
18. Reports of Various Finance Commission:
  - (i) Government of India Budget (Latest)
  - (ii) Government of India Long term Fiscal Policy, New Delhi
19. सिंह, एस. के. – लोक वित्त, एस. चन्द एण्ड कम्पनी, नई दिल्ली।
20. पन्त, जे. सी. – राजस्व, लक्ष्मीनारायण अग्रवाल, आगरा।
21. वार्ष्णेय, जे. सी. – राजस्व, साहित्य भवन पब्लिकेशन, आगरा।
22. शर्मा, प्रेमप्रकाश – सार्वजनिक वित्त के सिद्धान्त, राधा पब्लिकेशन, नई दिल्ली।
23. भाटिया, एच.एल. – लोक वित्त, विकास पब्लिकेशन हाऊस, नई दिल्ली।

**MEC205A**

**M.A. ECONOMICS 2010-11  
SEMESTER – II  
Paper – V A  
ISSUES OF LABOUR IN INDIA**

**Unit – I**

Wage and Inflation – Wage Standardization, National Wage Policy, Wage Boards in India, Bonus system and Profit Sharing, Wage Policy in India, The Payment of Bonus.

**Unit – II**

Trade Unions and Trade Union, Types and Functions, Growth of Trade Union Movement in India, Trade Unions and Economic Development, Social Responsibilities of Trade Unions.

**Unit – III**

Concept of Industrial Peace – Causes of Industrial Disputes and Prevention Mechanism, Role of Tripartism, Collective Bargaining, Workers Participation in Management, ILO and India.

**Unit – IV**

Social Security – Concept of Social Security and its evolution, Social Assistance and Social Insurance, Review and Appraisal of State Policies with respect to Social Security and Labour Welfare in India, Workmen's Compensation Act and ESI Act (in Brief).

**Unit – V**

Specific Labour Problems in India – Child Labour, Labour Problems of Unorganized Sector, Gender Bias in Labour Market, Second National Commission on Labour, Globalization and Labour Market.

### **Basic Reading List**

1. Datta, G. (1996) – Bargaining Power, Wages and Employment: Analysis of Agricultural Labour Markets in India, Sage Publications, New Delhi.
2. Papola, T.S. and Rodgers, (Eds.) (1992) – Labour Institutions and Economic Development in India, International Institute for Labour Studies, Geneva.
3. Sen, A. K. (1975) – Employment, Technology and Development, Oxford University Press, New Delhi.
4. Solow, R. M. (1990) – Labour Market as an Institution, Blackwell, London.
5. Hicks, J. R. (1932) – The Theory of Wages, Clarendon Press, Oxford.
6. Misra, L. (2000) – Child Labour in India, Oxford University Press, New Delhi.
7. Lester, R. A. (1964) – Economics of Labour (2<sup>nd</sup> Edition), Macmillan, New York.
8. McConnell, C. R. and S. L. Bruce (1986) – Contemporary Labour Economics, McGraw Hill, New York.
9. Sinha, V.C.
10. भगोलीवाल, टी.एन. – श्रम अर्थशास्त्र एवं औद्योगिक सम्बन्ध, साहित्य भवन पब्लिकेशन, आगरा।

**MEC205B**

**M.A. ECONOMICS 2010-11  
SEMESTER – II  
Paper – V B  
MATHEMATICAL METHODS FOR ECONOMICS**

**Unit – I**

Linear Programming – Meaning and definitions, Basic concepts and Solution of LPP through Simplex Method, Primal and Dual problem, Problem of Degeneracy in LPP, Application of LPP in Transport and Storage problems and other problems in Economics.

**Unit – II**

Input-Output Model – Static and Dynamic Model, Closed and Open Input Output Model, Solution of Input Output Model, Hawkins Simon conditions.

**Unit – III**

Game Theory – Concept of Game, Two Person Zero Sum Game, Pay-off Matrix, Pure and Mixed Strategies, Maximin in and Minimax criteria and Saddle Point, Non-constant Sum Game, Prisoner's Dilemma, Linear Programming Equivalence.

**Unit – IV**

Classical and Keynesian Macro Economic Models. Trade Cycle Model of Hicks and Samuelson, Goodwin and Kalecki's Stabilization Theory.

**Unit – V**

Harrod Growth Model, Neoclassical Growth Model – Solow and Meade Growth Models with Technical Progress. Optimal Growth and Mrs. Robinson's Golden Rule, Concepts of Endogenous Growth.

### **Basic Reading List**

1. Allen, R.G.D. (1974) – Mathematical Analysis for Economists, Macmillan Press and ELBS, London.
2. Chiang, A.C. (1986) – Fundamental Methods of Mathematical Economics, McGraw Hill, New York.
3. Henderson, J. M. and R. E. Quandt (1980) – McGraw Hill, New Delhi.
4. Mehta, B. C. (1987) – Mathematical Economics: Microeconomic Models, Sultan Chand and Sons, New Delhi.
5. Madnani, G.M.K. (2008) – Mathematical Economics, Oxford and IBH Publishing Co. Pvt. Ltd., New Delhi.
6. Mehta-Madnani (2008) – Mathematics for Economists, Sultan Chand and Company, New Delhi.
7. Arrow, K. J. and M. Intrigator (Eds.) (1982) – Handbook of Mathematical Economics, Vol. I, II and III, North Holland, Amsterdam.
8. Chung, J. W. (1993) – Utility and Production: Theory and Applications, Basil Blackwell, London.
9. Ferguson, C. E. (1976) – Neo Classical Theory of Production and Distribution.
10. Hadley, G. (1962) – Linear Programming, Addison Wesley Publishing Co., Massachusetts.
11. Mankiw, N. G. and D. Romer (Eds.) (1991) – New Keynesian Economics (2 Vols.), MIT Press, Cambridge, Mass.
12. Nash, J. F. (1996) – Essays on Game Theory, Cheltenham, U.K.
13. अग्रवाल, एच. एस. – अर्थमिति एवं गणितीय अर्थशास्त्र, आर.बी.एस.ए. पब्लिशर्स, जयपुर।

**MEC205C**

**M.A. ECONOMICS 2010-11  
SEMESTER – II  
Paper – V C  
ISSUES OF AGRICULTURE IN INDIA**

**Unit – I**

Recent Agricultural Growth in India, Cropping Pattern Changes in India, Supply of Inputs-Irrigation, Power, Seed and Fertilizer, Pricing of Inputs and Role of Subsidies.

**Unit – II**

Role of Public Investment and Capital Formation in Indian Agriculture, Rural Credit and its Institutional Structure, Role of NABARD.

**Unit – III**

Agricultural Markets and Market Efficiency, Measures to Improve Marketing Efficiency, Marketed and Marketable Surplus, Agricultural Marketing – Issues and Suggestions.

**Unit – IV**

Principles of Land Utilization – structure and Land Values and Rent, Land Tenures and Farming Systems – Peasant, Capitalist, Collective and State Farming.

**Unit – V**

WTO and its impact on Indian Agriculture, Food Availability and Revamped Public Distribution System.

### **Basic Reading List**

1. Bilgrami, S.A.R. (1996) – An introduction to Agriculture Economics, Himalaya Publishing House, New Delhi.
2. Desai, R. G. (Latest) – Agriculture Economics, Himalaya Publishing House, New Delhi.
3. Rudra, A. (1982) – Indian Agricultural Economics: Myths and Reality. Allied Publishers, New Delhi.
4. Sadhu, A. N. and Amarjit Singh (Latest) – Fundamentals of Agriculture Economics, Himalaya Publishing House, New Delhi.
5. Saini, G.R. (1979) – Farm Size, Resource Use Efficiency and Income Distribution, Allied Publishers, New Delhi.
6. Brahmananda, P. R. and V. R. Panchumukhi (1987) – The Development Process of the Indian Economy, Himalaya Publishing House, Bombay.
7. Raj, K. N. *et al.* (1988) – Essays in the Commercialisation of Indian Agriculture, Oxford University Press, New Delhi.
8. Subbarao, K. and De Janvry (1986) – Agriculture Price Policy and Income Distribution in India, Oxford University Press, New Delhi.
9. Bhalla, G. S. (1994) – Economic Liberalisation and Indian Agriculture Institute for Studies in Industrial Development, New Delhi.
10. Bhalla, G. S. (1994) – Economic Liberalisation and Indian Agriculture Institute for Studies in Industrial Development, New Delhi.
11. Dhawan, B. D. (1988) – Irrigation in Indian Agriculture Development, Sage Publication, New Delhi.
12. Rao, C. H. Hanumantha (1994) – Agriculture Growth, Rural Poverty and Environmental Degradation in India, Oxford University Press, New Delhi.
13. Joshi, P. C. (1975) – Land Reforms in India: Trend and Prospects, Allied Publishers, Bombay.

14. Khusro, A. M. (1973) – The Economics of Land Reforms and Farm size in India, Macmillan, New Delhi.
15. Misra and Puri (2008) – Indian Economy, Himalaya Publishing Company, New Delhi.
16. Dutta, R. and Sundaram (2008) – Indian Economy, S. Chand and Company, New Delhi.
17. Hariharan, N. P. (2008) – Lights and Shades of Indian Economy, Vishal Publishing Company, Jalandhar.
18. Soni, R. N. (2008) – Leading Issues of Agriculture Economics, Vishal Publishing Company, Jalandhar.
19. Government of India – Reports of the National Commission on Agriculture, New Delhi.
20. Reserve Bank of India – Report of the Agricultural Credit Review Committee, Bombay.
21. Government of India – Economic Survey (Annual) Ministry of Finance.
22. अग्रवाल, एन. एल. – भारतीय कृषि का अर्थतंत्र, राजस्थान हिन्दी ग्रंथ अकादमी, जयपुर।
23. मिश्रा, जे. पी. – कृषि अर्थशास्त्र, साहित्य भवन पब्लिकेशन, आगरा।
24. दत्त एवं सुन्दरम – भारतीय अर्थव्यवस्था, एस. चन्द एण्ड कम्पनी, नई दिल्ली।
25. मिश्रा एवं पुरी – भारतीय अर्थव्यवस्था, हिमालय पब्लिशिंग कम्पनी, नई दिल्ली।
26. सोनी, आर. एन. – कृषि अर्थशास्त्र के मुख्य विषय, विकास पब्लिशिंग कम्पनी, जालंधर।

**MEC301**

**M.A. ECONOMICS 2011-12  
SEMESTER – III  
Paper – I  
INDIAN ECONOMIC POLICY**

**Unit – I**

Economic Development – Concept and Approaches, Measurement, Sustainable Development and Environmental Protection, Indicators of Development – PQLI, Human Development Index (HDI), Gender Related Development Index (GDI).

**Unit – II**

Broad Demographic Features of Indian Population, Rural-Urban Migration, Urbanisation and Civic Amenities, Poverty and Inequality, Population and Economic Development, Population Policy (Latest).

**Unit – III**

Planning in India – Objectives and Strategies, Failures and Achievements of Plans, Latest Five Year Plan – Broad Conceptual Framework, Relevance of Planning in the Liberalised/Free Market Economy.

**Unit – IV**

Role of State, Market and other Institutions in Development, Developing Grass Root Organizations for Development – Panchayats, NGOs and Pressure Groups, Public-Private Partnership.

**Unit – V**

Economic (Power, Transport and Communication) Infrastructure, Irrigation and Development, Issues and Policies in Financial Infrastructural Development, Social Infrastructure Education and Health.

### **Basic Reading List**

1. Mishra and Puri – Indian Economy, Himalaya Publishing House, New Delhi.
2. Rudra Dutt and Sundaram – Indian Economy, S. Chand and Company, New Delhi.
3. Alok Ghosh – Indian Economy Its Nature and Problems, The New Book Stall.
4. Hariharan, N. P. (2008) – Lights and Shades of Indian Economy, Vishal Publishing Co., Jalandhar.
5. Uma Kapila (20<sup>th</sup> Edition) (2009) – Indian Economy Since Independence, Academic Foundation, New Delhi.
6. Jalan, B. (1992) – The Indian Economy, Problems and Prospects, Viking, New Delhi.
7. Reserve Bank of India – Report on Currency and Finance (Annual).
8. Indian Economy (Extra issue) – Pratiyogita Darpan, Upkar Prakashan, Agra.
9. Todaro, M. (1997) – Economic Development in the third world, Addison Wesley, England.
10. Brahmananda, P. R. and V. R. Panchmukhi (Eds.) (1987) – The Development Process of the Indian Economy, Himalaya Publishing House, Bombay.
11. World Bank (2000) – Indian Reducing Poverty, Accelerating Economic Development, Oxford University Press, New Delhi.
12. Government of India, Planning Commission, 11<sup>th</sup> Five Year Plan, New Delhi.

13. Vijay Nagesh Gumma (2008) – The Impact of Globalization on Small Scale Industries, Deep and Deep Publication Pvt. Ltd., New Delhi.
14. रूद्र दत्त (2008) – विकास, गरीबी एवं समता, दीप एवं दीप पब्लिकेशन प्रा. लि., नई दिल्ली।
15. भारतीय अर्थव्यवस्था (अतिरिक्तांक), प्रतियोगिता दर्पण, उपकार प्रकाशन, आगरा।
16. भारतीय अर्थव्यवस्था – साहित्य भवन पब्लिकेशन्स, आगरा।
17. मिश्रा एवं पुरी – भारतीय अर्थव्यवस्था, हिमालय पब्लिशिंग हाऊस, नई दिल्ली।
18. दत्त एवं सुन्दरम – भारतीय अर्थव्यवस्था, एस. चन्द एण्ड कम्पनी, नई दिल्ली।

**MEC302**

**M.A. ECONOMICS 2011-12  
SEMESTER – III  
Paper – II  
GROWTH ECONOMICS**

**Unit – I**

Economic Growth and Development – Factors affecting Economic Growth, Measuring Development and Development Gap, Human Development Index and other Indices of Development and Quality of Life.

**Unit – II**

Classical Theory of Development – Contribution of Adam Smith, Ricardo, Malthus and James Mill, Karl Marx and Development of Capitalistic Economy – Theory of Social Change, Surplus Value and Profit and Crisis in Capitalism, Schumpeter and Capitalistic Development, Innovation, Role of Credit, Profit and Degeneration of Capitalism.

**Unit – III**

Growth Models – Harrod and Domar, Instability of Equilibrium: Neo Classical Growth Models – Solow and Meade, Mrs. Joan Robinson's Growth Model, Cambridge Criticism of Neo Classical Analysis of Growth, Golden Rule of Accumulation, Stability of Equilibrium, Endogenous Growth.

**Unit – IV**

Role of Agriculture in Economic Development, Efficiency and productivity in Agriculture, New Technology and Sustainable Agriculture, Globalisation and Agricultural Growth, Terms of Trade between Agriculture and Industry.

**Unit – V**

Rationale and Pattern of Industrialization in Developing Countries, The choice of Techniques, Efficiency of Small-Scale v/s Large-Scale Production, Infrastructure and its Importance.

### **Basic Reading List**

1. Jhingan, M.L. – Economics of Growth and Development, Vrinda Publication, New Delhi.
2. Thirwall, A.P. – Growth and Development with special reference to developing economics, Macmillan and ELBS, London.
3. Kindleberger, C. P. (1977) – Economic Development, (3<sup>rd</sup> edition), McGraw Hill, New York.
4. Todaro, M. P. (1996) (6<sup>th</sup> edition) – Economic Development, Longman, London.
5. Jhirwal, A. P. (1999) (6<sup>th</sup> edition) – Growth and Development, Macmillan, U.K.
6. Sen, A. K. (Ed.) (1990) – Growth Economics, Penguin, Harmondsworth.
7. Solow, R. M. (2000) – Growth Theory – An Exposition, Oxford University Press, Oxford.
8. Schumpeter, J. A. (1949) – The Theory of Economic Development, Harvard University Press, Cambridge, Mass.
9. Nayyar, D. (Ed.) (1994) – Industrial Growth and Stagnation: The Debate in India, Oxford University Press, New Delhi.
10. Taneja, M. L. and R. M. Myer (2008) – Economics of Development and Planning, Vishal Publishing Company, Jalandhar.
11. Barrow, R. and X. Sela – Martin, Economic growth, McGraw Hill, New York.
12. Chakravarti, S. (1982) – Alternative Approaches to the Theory of Economic Growth, Oxford University Press, New Delhi.
13. Lewis, W.A. (1955) – The theory of Economic Growth, George Allen and Unwin, London.
14. Myrdal, G. (1957) – Economic theory and under developed regions, Duckworth, London.

15. Bhagwati, J. and P. Desai (1970) – Indian Planning: The Indian Experience, Clarendon Press, Oxford.
16. World Bank (1994) – Infrastructure and Development, World Bank, Washington, D.C.
17. United Nations (1994) – Human Development Report, United Nations, New York.
18. Dasgupta, P., A.K. Sen and S. Marglin (1972) – Guidelines for project Evaluation, UNIDO, Vienna.
19. Myint, H. (1971) – Economic theory and under developed countries, Oxford University Press, New York.
20. Jhingan, M.L. – Economics of Growth and Development, Vrinda Publication.
21. Pande, Mrigesh, Economic Growth and development, theory, policy and problems, Meenakshi Prakashan, Meerut.
22. Singh, S.P. – Economic Growth and Planning, Himalaya Publishing House, New Delhi.
23. सिंह, एस. पी. – आर्थिक विकास एवं नियोजन, एस. चन्द एण्ड कम्पनी, नई दिल्ली।
24. झिंगन, एम. एल. – विकास का अर्थशास्त्र एवं नियोजन, वृन्दा पब्लिकेशन, नई दिल्ली।
25. डॉ. विमल कुमार जैन, डॉ. के. एस. नैगी एवं डॉ. आर. के. जैन – आर्थिक विकास के सिद्धांत एवं भारत में आर्थिक नियोजन, कॉलेज बुक डिपो, जयपुर, नई दिल्ली।
26. तनेजा, एम. एल. एवं आर. एम. मायर (2008) – अर्थशास्त्र की योजनाएं एवं विस्तार, विशाल, पब्लिशिंग कम्पनी, जालंधर।

**MEC303**

**M.A. ECONOMICS 2011-12  
SEMESTER – III  
Paper – III  
INTERNATIONAL TRADE**

**Unit – I**

Difference between Inter Regional and International Trade, The Pure Theories of International Trade, Theories of Absolute Advantage, Comparative Costs Advantage, Opportunity Costs and Modern Theory of International Trade and their Empirical Testing.

**Unit – II**

Factor Price Equalization Theorem Kravis and Linder's Theorem, The Rybczynski Theorem, Stolper – Samuelson, Theorem.

**Unit – III**

Some New Theories of International Trade – Posner's Theory, Vernon's Theory, Kenen's Theory, Emmanuel's Theory, Economic Growth and International Trade.

**Unit – IV**

The Gains from Trade – Meaning, Potential and Actual Gain from International Trade, Measurement of Gains from Trade and their Distribution, Static and Dynamic Gains from Trade.

**Unit – V**

The Terms of Trade – Concepts, Determination of Terms of Trade, Factors Affecting Terms of Trade, Terms of Trade and Economic Development, Secular Deterioration Hypothesis.

### Basic Reading List

1. Sodersten, B.O. – International Economics, Macmillan, Press, London.
2. Mithani, D. M. – International Economics, Himalaya Publication House, Bombay.
3. Kindleberger, C. P. (1973) – International Economics, R. D. Triveni, Homewood.
4. Dunn, R. M. and J. H. Mutli (2000) – International Economics, Routledge, London.
5. Swami, K. D. (2008) – International Economics, Scientific Publications, Jodhpur.
6. Bhagwati, J. (Ed.) (1981) – International Trade: Selected Readings, Cambridge University Press, Mass.
7. Goldstein, M. (1998) – The Asian Financial Crisis: Causes, Cure and Systematic Implication, Institute for International Economics, Washington, D.C.
8. Grable, J. O. (1996) – International Financial Markets, Prentice Hall, New York.
9. Mundell, R. (1968) – International Economics, The Macmillan Company Ltd., New York.
10. Patel, S. J. (1995) – Indian Economy, Towards the 21<sup>st</sup> Century, University Press Ltd., India.
11. वैश्य, एम. सी. एवं सुदामा सिंह – अन्तर्राष्ट्रीय अर्थशास्त्र, ऑक्सफोर्ड एवं आई.बी. एच. पब्लिशिंग कम्पनी प्रा. लि., नई दिल्ली।
12. अग्रवाल एवं बरला – अन्तर्राष्ट्रीय अर्थशास्त्र, लक्ष्मीनारायण अग्रवाल, आगरा।
13. झिंगन, एम. एल. (2008) – अन्तर्राष्ट्रीय अर्थशास्त्र, वृन्दा पब्लिकेशन, नई दिल्ली।

**MEC304**

**M.A. ECONOMICS 2011-12**  
**SEMESTER – III**  
**Paper – IV**  
**ECONOMICS OF SOCIAL SECTOR**

**Unit – I**

Externalities and Market Inefficiency – Externalities as Missing Markets, Property Rights and Externalities, Non-Convexities and Externalities, Pareto Optimal Provision of public Good, Lindhal's Equilibrium, Preference Revelation Problem and Impure and Mixed Public Goods, Common Property Resources.

**Unit – II**

Education as an Instrument for Economic Growth, Human Capital and Physical Capital, Demand for Education – Private Demand and Social Demand, Determinants of Demand.

**Unit – III**

Benefits of Education – Direct and Indirect Benefits, Private and Social Benefits, Educational Financing – Public and Private, Resources Utilization and Educational Planning, Education and Labour Market.

**Unit – IV**

Health Dimensions of Development, Determinants of Health, Economic Dimension of Health Care – Demand and Supply of Health Care, Financing of Health Care and Resource Constraints.

**Unit – V**

The Concept of Human Life Value, Inequalities in Health – Class and Gender Perspectives its Measurement with Health Indicators, Expenditure on Health Care.

### **Basic Reading List**

1. Charles D. Kolstad (2008) – Environmental Economics, Oxford University Press.
2. Pathak, H. K. (2010) – Economics of Environmental Development, G. S. Rawat for Cyber Tech Publication.
3. Bhattacharya, R. N. (Eds.) (2001) – Environmental Economics: An Indian Perspective, Oxford University Press, New Delhi.
4. Markandya, A. and J. Richardson (Eds.) – The Earth Scan Reader in Environmental Economics, Earth Scan, London.
5. Panchmukhi, P. R. (1980) – Economics of Health: A Trend Report in ICSSR, A Survey of Research in Economics, Vol. VI, Infrastructure, Allied Publishers, Delhi.
6. Peare, D. W. and R. K. Turner (1991) – Economics of Natural Resource Use and Environment, Johns Hopkins University Press, Baltimore.
7. Beman, P. and M. E. Khan (1993) – Paying for India's Health Care, Sage Publications, New Delhi.
8. Cooms, P. H. and J. Hallak (1988) – Cost Analysis in Education, John Hopkins University Press, Baltimore.
9. Murty, M. N., A. J. James and S. Misra (1999) – The Economics of Water Pollution in India, Oxford University Press, New Delhi.
10. Sengupta, R. P. (Ed.) (2001) – Ecology and Economics: An Approach to Sustainable Development, Oxford University Press, New Delhi.
11. Woodhall, M. (1992) – Cost Benefit Analysis in Educational Planning, UNESCO, Paris.
12. World Bank (1993) – The World Development Report, 1993: Investing in Health, Oxford University Press, New York.
13. Arun Kumar Singh – Environmental Economics, Deep and Deep Publications Pvt. Ltd., New Delhi.
14. डॉ. हरिमोहन सक्सेना – पर्यावरण एवं प्रदूषण, राजस्थान हिन्दी ग्रंथ अकादमी, जयपुर।

**MEC305A**

**M.A. ECONOMICS 2011-12  
SEMESTER – III  
Paper – V A  
INDUSTRIAL ECONOMICS**

**Unit – I**

Scope and Problems of Industrial Economics, Size and Growth of Firm, Organization, Ownership and Objective of the Firm, Market Structure – Perfect Competition, Monopolistic Competition, Monopoly and Oligopoly.

**Unit – II**

Theories of Industrial Location – Weber and Sargent Florence, Factors affecting Location, Development of Backward Areas.

**Unit – III**

Market Conduct and Product Pricing – Methods of Product Pricing, Methods of Evaluating Investment Expenditure, Capital Budgeting – Concept and Methods.

**Unit – IV**

Mergers and Acquisitions of the Firms – Meaning, Types and Methods, Various Forms of Mergers in India, Market Performance, Size and Growth of firm, Size of Industrial Units in India.

**Unit – V**

Industrial Productivity – Concept, Measurement (Indian Situation), National Productivity Council, Industrial Efficiency – Its Determinants and Measurement.

### Basic Reading List

1. Barthwal, R. R. (1992) – Industrial Economics: An Introductory Text Book, Wiley Eastern Ltd., New Delhi.
2. Cherunilam, F. (1994) – Industrial Economics: Indian Perspective (3<sup>rd</sup> Edition), Himalaya Publishing House, Mumbai.
3. Desai, B. (1999) – Industrial Economy in India (3<sup>rd</sup> Edition), Himalaya Publishing House, Mumbai.
4. Kuchhal, S. C. (1980) – Industrial Economy of India (5<sup>th</sup> Edition), Chaitanya Publishing House, Allahabad.
5. Singh, A. and A. N. Sadhu (1988) – Industrial Economics, Himalaya Publishing House, Bombay.
6. Ahluwalia, I. J. (1985) – Industrial Growth in India, Oxford University Press, New Delhi.
7. Brahmananda, P. R. and V. R. Panchmukhi (Eds.) (1987) – The Development Process of the Indian Economy, Himalaya Publishing House, Bombay.
8. Mamoria and Mamoria (2000) – Dynamics of Industrial Relations in India, (15<sup>th</sup> Edition), Himalaya Publishing House, Mumbai.
9. Naidu, K. M. (1999) – Industrialization and Regional Development in India, Reliance Publishing House, New Delhi.
10. Government of India, Economic Survey (Annual), New Delhi.
11. Devine, P. J. *et al.* (1978) – An Introduction to Industrial Economics (3<sup>rd</sup> Edition), George Allen and Unwin, London.
12. कुलश्रेष्ठ, आर. एस. – औद्योगिक अर्थशास्त्र, साहित्य भवन पब्लिकेशन, आगरा।

**MEC305B**

**M.A. ECONOMICS 2011-12  
SEMESTER – III  
Paper – V B  
ECONOMETRICS I**

**Unit – I**

Nature, Meaning and Scope of Econometrics, Goals of Econometrics, Methodology of Econometric Research, The Simple Linear Regression Model Ordinary Least-Squares Method, Assumptions and Properties of OLS Estimations, Gauss Markov's Theorem, Numerical Application of Regression Analysis.

**Unit – II**

Goodness of fit  $R^2$ , Concept and Derivation of  $R^2$  and Adjusted  $R^2$ , (i.e.  $\bar{R}^2$  and Numerical Application, Confidence Intervals of the Parameters, Statistical Tests of Significance of the OLS Estimates – t and F test and its importance.

**Unit – III**

Multiple Regression Model with Two Explanatory Variables, Statistical Properties of OLS Parameters in Multiple Regression Model, Relation between Simple and Multiple Regression Co-efficients, An application in Multiple Regression Model, Generalised Least Square Model (GLS). Matrix Approach to Linear Regression Model and Numerical Application.

**Unit – IV**

Problems in Regression Analysis, Autocorrelation – Assumptions and Sources of Autocorrelation, Nature and Consequences, Tests of Autocorrelation – Durbin-Watson 'd' statistic, Measures to solve the problem of autocorrelation, Heteroscedasticity – Nature Test, Consequences and Remedial Steps of Problems Heteroscedasticity.

**Unit – V**

Multicollinearity – Causes and Consequences, Tests detecting Multicollinearity, Solutions for Multicollinearity, Errors of Measurement, Consequences of the Violation of the Assumption of Number of Errors of Measurement Solutions for the Case of Errors in Variables.

### Basic Reading List

1. Gujrati, D. (1995) – Basic Econometrics, (3<sup>rd</sup> Edition), McGraw Hill, New Delhi.
2. Johnston, J. (1985) – Econometric Methods, McGraw Hill, New York.
3. Koutsoyiannis, A. (1977) – Theory of Econometrics, (2<sup>nd</sup> Edition), The Macmillan Press Ltd., Hampshire.
4. Maddala, G. S. (1993) – Econometrics: An Introduction, McGraw Hill, New York.
5. Shyamala, S., Navdeep Kaur and T. Arul Pragasam – A Text Book on Econometrics – Theory and Applications, Vishal Publishing Co., Jalandhar.
6. Madnani, G.M.K. – Introduction to Econometrics: Principles and Applications, Oxford and IBH Publishing Co. Pvt. Ltd., New Delhi.
7. Chow, G. C. (1983) – Econometrics, McGraw Hill, New York.
8. Dhrymes, P. J. (1970) – Econometrics – Statistical Foundations and Applications, Harper and Row Publishers, New York.
9. Intriligator, M. D. (1978) – Econometric Methods, Techniques and Applications, Prentice Hall, Englewood Cliffs, New Jersey.
10. Pindyck, R. S. and D. L. Rubinfeld (1976) – Econometric Models and Econometric Models and Economic Forecasts, McGraw Hill, Kogakusha, Tokyo.
11. Franses, P. H. (1998) – Time Series Models for Business and Economic Forecasting, Cambridge University Press, Cambridge.
12. Kmenta, J. (1997) – Elements of Econometrics, University of Michigan Press, New York.
13. मदनानी, जी. एम. के. (1996) – अर्थमिति: अवधारणाएं एवं विधियां, ऑक्सफोर्ड एवं आई.बी.एच. कम्पनी प्रा. लि., नई दिल्ली।
14. अग्रवाल, एच. एस. (1998) – अर्थमितिय निदर्श, आर.बी.एस.ए. पब्लिशर्स, जयपुर।

**MEC305C**

**M.A. ECONOMICS 2011-12  
SEMESTER – III  
Paper – V C  
DEMOGRAPHY**

**Unit – I**

Meaning of Scope of Demography, Components of Population Growth and their interdependence, Measures of Population Change, Structure, Distribution and Sources of Population data.

**Unit – II**

Theories of Population – Malthus, Optimum theory of Population, Theory of Demographic Transition – Views of Medows, Enke and Simon, Population and development.

**Unit – III**

Population trends in the Twentieth Century, Population Explosion, International Aspects of Population Growth and Distribution, Pattern – Determinants and Effects of Age and Sex Structure in Developed and Less Developing Countries and Population Aging.

**Unit – IV**

Importance of study of Fertility – Levels and Trends of Fertility in more and less developed countries, Factors affecting Fertility, Nuptiality – Concept and Analysis of Marital Status, Single Mean age at Marriage.

**Unit – V**

Mortality – Death Rates, Crude and Age Specific, Mortality of Birth and Infant Mortality Rate, Levels and Trends of Mortality in more and Less Developing Countries, Sex and Age pattern mortality, Factors responsible for decline in mortality in recent years, Life table – construction and uses, Concepts of stable population, Methods of population projection.

### Basic Reading List

1. Agarwal, S. N. (1985) – India's Population Problem, Tata McGraw Hill, Bombay.
2. Agarwal, U. D. (1999) – Population Projections and Their Accuracy, B. R. Publishing Corporation, New Delhi.
3. Bhende, A. A. and T. R. Kanitkar (1982) – Principles of Population Studies, Himalaya Publishing House, Bombay.
4. Bogue, A. (1996) – India's Basic Demographic Statistics, B. R. Publishing Corporation, New Delhi.
5. Choubey, P. K. (2000) – Population Policy in India, Kanishka Publications, New Delhi.
6. Mistra, B. D. (1980) – An introduction to the study of population, South Asian Publishers, New Delhi.
7. Srinivasan, K. (Ed.) (1999) – Population Policy and Reproductive Health, Hindustan Publishing Corporation, New Delhi.
8. Census of India, Government of India, Various Reports, New Delhi.
9. Krishnaji M., R. M. Sudarshan and A. Shariff (1999) – Gender Population and Development, Oxford University Press, New Delhi.
10. Srinivasan, K. (1998) – Basic Demographic Techniques and Applications, Sage Publications, New Delhi.
11. Simon, J. L. (1992) – Population and Development in Poor Countries, Princeton University Press.
12. Agnihotri, S. B. (2000) – Sex ratio in Indian Population: A Fresh Exploration, Sage Publications, New Delhi.
13. Sudarshan and A. Shariff (1999) – Gender Population and Development, Oxford University Press, New Delhi.
14. वी. सी. सिन्हा एवं आर. एस. त्रिवेदी – जनांकिकी के सिद्धान्त, नेशनल पब्लिशिंग हाऊस, नई दिल्ली।

**MEC305D**

**M.A. ECONOMICS 2011-12**  
**SEMESTER – III**  
**Paper – V D**  
**COMPUTER APPLICATION IN ECONOMIC ANALYSIS**

**Unit – I**

Basics of Computers – Computer History, Generations, Types, Characteristics and Number Systems, Block Diagram of Computer, Memory, Input-Output Devices, Printer and Plotter.

**Unit – II**

Application Package – Word Processor – Editing, Formatting, Inserting Objects, Options, Mail Merge, Printing, Table – Editing, Formatting, Processor setting and Tool setting.

**Unit – III**

Data Base – Concept of Data, Record and Files, Type of Data, Structure and Data Analysis, File Handling and Operation like Opening, Appending and Sorting, Data Operations, Algorithms like Sorting, Merging, Joining and Bifurcating, Operation on Data Base – DBMS.

**Unit – IV**

Computer Networking and Internet, Network Topology, LAN, WAN and MAN, World Wide Web, E-mail and Telnet, Addressing in Internet, ISP and IP Addresses, Web Browser and Search Engines, Web Pages, HTML tags, Development of Web Page including Tables and Images.

**Unit – V**

Electronic Trading and Marketing – On Line Banking, ATMs, Electronic Stock Exchange, Electronic Trading, Data sharing and Discrimination, Document Delivery, Transaction Security and Digital Signature.

**MEC401**

**M.A. ECONOMICS 2011-12  
SEMESTER – IV  
Paper – I  
INDIAN ECONOMIC PROBLEMS**

**Unit – I**

Agriculture – Need for Land Reforms, Technological changes in Agriculture, Pricing of Agriculture Inputs and Output, Agriculture Finance Policy, Agriculture Marketing, Issues in Food Security, Policies for Sustainable Agriculture, Need for Agriculture Insurance.

**Unit – II**

Industry – Growth and Pattern of Industrialization, Industrial Policies and New Economic Reforms, Privatisation and Disinvestment, Exit Policy Issues in Labour Market Reforms.

**Unit – III**

Fiscal Policy in India, Fiscal Reforms in India, Monetary Policy, Money and Capital Market, Working of SEBI in India, Financial Sector Reforms.

**Unit – IV**

Foreign Trade – Volume, Structure and direction of Foreign Trade, Balance of Payments, Issues in Export-Import Policy and FEMA, Exchange Rate Policy, The management of Foreign Exchange, Issue of the Convertibility of Rupee on Capital Account.

**Unit – V**

Globalisation of Indian Economy – Foreign Capital and MNCs in India, WTO and its impact on the different sectors of the Economy, A critical review of the working of WTO.

### **Basic Reading List**

1. Mishra and Puri – Indian Economy, Himalaya Publishing House, New Delhi.
2. Rudra Dutt and Sundaram – Indian Economy, S. Chand and Company, New Delhi.
3. A. N. Agrawal – Indian Economy, Vishwa Prakashan.
4. Alak Ghosh – Indian Economy Its Nature and Problems, The New Book Stall.
5. Sudama Singh – Indian Economy, Radha Publications, New Delhi.
6. Hariharan, N. P. (2008) – Lights and Shades of Indian Economy, Vishal Publishing Co., Jalandhar.
7. Uma Kapila (20<sup>th</sup> Edition) (2009) – Indian Economy Since Independence, Academic Foundation, New Delhi.
8. Jalan, B. (1992) – The Indian Economy, Problems and Prospects, Viking, New Delhi.
9. Reserve Bank of India – Report on Currency and Finance (Annual).
10. Indian Economy – Pratiyogita Darpan, Upkar Prakashan (Extra Issue), Upkar Prakashan, Agra.
11. Jhirwall, A. P. (1994) – Growth and Development, ELBS, Macmillan Press, London.
12. Todaro, M. (1997) – Economic Development in the third world, Addison Wesley, England.
13. Brahmananda, P. R. and V. R. Panchmukhi (Eds.) (1987) – The Development Process of the Indian Economy, Himalaya Publishing House, Bombay.
14. World Bank (2000) – Indian Reducing Poverty, Accelerating Economic Development, Oxford University Press, New Delhi.

15. Government of India, Planning Commission, 11<sup>th</sup> Five Year Plan, New Delhi.
16. Vijay Nagesh Gumma (2008) – The Impact of Globalization on Small Scale Industries, Deep and Deep Publication Pvt. Ltd., New Delhi.
17. रूद्र दत्त (2008) – विकास, गरीबी एवं समता, दीप एवं दीप पब्लिकेशन प्रा. लि., नई दिल्ली।
18. भारतीय अर्थव्यवस्था (अतिरिक्तांक) प्रतियोगिता दर्पण, उपकार प्रकाशन, आगरा।
19. भारतीय अर्थव्यवस्था – साहित्य भवन पब्लिकेशन्स, आगरा।
20. मिश्रा एवं पुरी – भारतीय अर्थव्यवस्था, हिमालय पब्लिशिंग हाऊस, नई दिल्ली।
21. दत्त एवं सुन्दरम – भारतीय अर्थव्यवस्था, एस. चन्द एण्ड कम्पनी, नई दिल्ली।

**MEC402**

**M.A. ECONOMICS 2011-12  
SEMESTER – IV  
Paper – II  
DEVELOPMENT ECONOMICS**

**Unit – I**

Development and Underdevelopment – Perpetuation of Underdevelopment, Population problems and Growth Pattern of Population, Theory of Demographic Transition, Population as Limit to Growth and as Ultimate Source.

**Unit – II**

Growth Models – Unlimited Supply of Labour, Big Push, Balanced Growth, Unbalanced growth, Critical Minimum Effort Thesis, Low-Income Equilibrium Trap, Dualism – Technical, Behavioural and Social, Ranis and Fei Model.

**Unit – III**

Need for Investment Criteria in Developing Countries – Present v/s Future, Alternative Investment Criteria, Cost Benefit Analysis, Shadow Prices, Project Evaluation.

**Unit – IV**

Human Resource Development – Food Security, Education, Health and Nutrition, Poverty and Environment, Role of Monetary and Fiscal policies in Developing Countries.

**Unit – V**

External Resources – FDI, Aid V/s Trade, Technology Inflow, MNCs activities in Developing Countries, Borrowings – Domestic and External, Burden of Borrowing.

### Basic Reading List

1. M. L. Jhingan – Economics of Growth and Development, Vrinda Publication, New Delhi.
2. A. P. Jhirwall – Growth and Development with special reference to developing economics, ELBS Macmillan.
3. Kindleberger, C. P. (1977) – Economic Development, (3<sup>rd</sup> edition), McGraw Hill, New York.
4. Todaro, M. P. (1996) (6<sup>th</sup> edition) – Economic Development, Longman, London.
5. Jhirwal, A. P. (1999) (6<sup>th</sup> edition) – Growth and Development, Macmillan, U.K.
6. Sen, A. K. (Ed.) (1990) – Growth Economics, Penguin, Harmondsworth.
7. Solow, R. M. (2000) – Growth Theory – An Exposition, Oxford University Press, Oxford.
8. Schumpeter, J. A. (1949) – The Theory of Economic Development, Harvard University Press, Cambridge, Mass.
9. Nayyar, D. (Ed.) (1994) – Industrial Growth and Stagnation. The Debate in India, Oxford University Press, New Delhi.
10. Jherberge, J. D. (Ed.) (1968) – Economics of Trade and Development, John Wiley, New York.
11. Taneja, M. L. and R. M. Myer (2008) – Economics of Development and Planning, Vishal Publishing Company, Jalandhar.
12. एस. पी. सिंह – आर्थिक विकास एवं नियोजन, हिमालय पब्लिशिंग हाऊस, नई दिल्ली।
13. एम. एल. झिंगन – विकास का अर्थशास्त्र एवं नियोजन, वृन्दा पब्लिकेशन, नई दिल्ली।
14. डॉ. विमल कुमार जैन, डॉ. के. एस. नैगी एवं डॉ. आर. के. जैन – आर्थिक विकास के सिद्धांत एवं भारत में आर्थिक नियोजन, कॉलेज बुक डिपो, जयपुर, नई दिल्ली।
15. तनेजा, एम. एल. एवं आर. एम. मायर (2008) – अर्थशास्त्र की योजनाएं एवं विस्तार विशाल, पब्लिशिंग कम्पनी, जालंधर।

**MEC403**

**M.A. ECONOMICS 2011-12**  
**SEMESTER – IV**  
**Paper – III**  
**INTERNATIONAL COMMERCIAL POLICIES AND FINANCE**

**Unit – I**

Free Trade V/s Protection, Tariffs – Meaning and Types, Effects of Tariff, Optimum Tariff, Stolper – Samuelson Theorem, Effective Rate of Protection.

**Unit – II**

Non-Tariff Barriers (NTBs) – Meaning and Types, Import Quotas – Meaning, Objectives, Types and Effect, Import Quotas V/s Tariffs, Dumping – Meaning, Objective, Types and Effects, Anti Dumping Measures, The Theory of Customs Union.

**Unit – III**

Balance of Trade and Balance of Payments – Meaning and Theories, Disequilibrium in Balance of Payments, Measures to correct Disequilibrium in Balance of Payments, Balance of Payments Policies – Mundellian Model of Monetary and Fiscal Policies, Expenditure Switching Policies.

**Unit – IV**

Foreign Trade Multiplier, Theories of Foreign Exchange Rate, Determination Fixed v/s Flexible Exchange Rates, Intermediate or Hybrid Exchange Rate Systems, Multiple Exchange Rates System.

**Unit – V**

International Trade, Financial Institutions and Organizations, International Monetary Fund and World Bank, The Problem of International Liquidity, The European Economic Community, The General Agreement on Tariffs and Trade, The World Trade Organization.

### Basic Reading List

1. Sodersten, B.O. – International Economics, Macmillan.
2. Mithani, D. M. – International Economics, Himalaya Publication House, Bombay.
3. Kindleberger, C. P. (1973) – International Economics, R. D. Triveni, Homewood.
4. Dunn, R. M. and J. H. Mutli (2000) – International Economics, Routledge, London.
5. Rana, K. C. and K. N. Verma (2008) – International Economics, Vishal Publishing Company, Jalandhar.
6. Swami, K. D. (2008) – International Economics, Scientific Publications, Jodhpur.
7. Bhagwati, J. (Ed.) (1981) – International Trade: Selected Readings, Cambridge University Press, Mass.
8. Goldstein, M. (1998) – The Asian Financial Crisis: Causes, Cure and Systematic Implication, Institute for International Economics, Washington, D.C.
9. Grable, J. O. (1996) – International Financial Markets, Prentice Hall, Englewood Cliffs, New York.
10. Mundell, R. (1968) – International Economics, The Macmillan Company Ltd., New York.
11. Patel, S. J. (1995) – Indian Economy, Towards the 21<sup>st</sup> Century, University Press Ltd., India.
12. एम. सी. वैश्य एवं सुदामा सिंह – अन्तर्राष्ट्रीय अर्थशास्त्र, ऑक्सफोर्ड एवं आई.बी. एच. पब्लिशिंग कम्पनी प्रा. लि., नई दिल्ली।
13. अग्रवाल एवं बरला – अन्तर्राष्ट्रीय अर्थशास्त्र – लक्ष्मीनारायण अग्रवाल, आगरा।
14. राणा, के. सी. एवं के. एन. वर्मा (2008) – अन्तर्राष्ट्रीय अर्थशास्त्र, विशाल पब्लिशिंग कम्पनी, जालंधर।
15. झिंगन, एम. एल. (2008) – अन्तर्राष्ट्रीय अर्थशास्त्र, वृन्दा पब्लिकेशन, नई दिल्ली।

**MEC404**

**M.A. ECONOMICS 2011-12**  
**SEMESTER – IV**  
**Paper – IV**  
**ECONOMICS OF ENVIRONMENTAL MANAGEMENT**

**Unit – I**

Environmental Economics – Definition and Scope, Common Property Resources, Theories of optimal use of Exhaustible and Renewable Resources, Economic Growth, Sustainable Development and Environment, The Environmental Kuznets curve.

**Unit – II**

Valuing the Environment and Natural Resources – Concept of total Economic Value, Use Value, Option, Values and Non-use Values, Valuation Methods – Physical Linkage Methods, Abatement Cost Method, Behavioural Linkage Method, Environmental Accounting – Meaning, Need, Nature of Environmental Accounting (IEEA) and the Measurement of Environmentally corrected GDP (Green Accounting).

**Unit – III**

Environmental Risk – Concept, Assessment of Environmental Risks, Choice under Risk, Valuing Risks to Life and Limb, Risk Perception, Risk Management.

**Unit – IV**

The Economics of climate change – Concept, National and International Challenges of Climate Change, The Benefits and Costs of International cooperation, Economic Issues Underlying Benefit and Cost Estimates, The flexibility – Stringency Trade off.

**Unit – V**

Mechanism for Environmental Regulations in India, Environmental Laws and their implementation, Policy instruments for Controlling Water and Air Pollution, Forest Policy in India Resources and Energy.

### Basic Reading List

1. Charles D. Kolstad (2008) – Environmental Economics, Oxford University Press.
2. H. K. Pathak (2010) – Economics of Environmental Development, G. S. Rawat for Cyber Tech Publication.
3. Bhattacharya, R. N. (Ed.) (2001) – Environmental Economics: An Indian Perspective, Oxford University Press, New Delhi.
4. Markandya, A. and J. Richardson (Eds.) – The Earth Scan Reader in Environmental Economics, Earth Scan, London.
5. Panchmukhi, P. R. (1980) – Economics of Health: A Trend Report in ICSSR, A Survey of Research in Economics, Vol. VI, Infrastructure, Allied Publishers, Delhi.
6. Peare, D. W. and R. K. Turner (1991) – Economics of Natural Resource Use and Environment, Johns Hopkins University Press, Baltimore.
7. Beman, P. and M. E. Khan (1993) – Paying for India's Health Care, Sage Publications, New Delhi.
8. Cooms, P. H. and J. Hallak (1988) – Cost Analysis in Education, John Hopkins University Press, Baltimore.
9. Murty, M. N., A. J. James and S. Misra (1999) – The Economics of Water Pollution in India, Oxford University Press, New Delhi.
10. Sengupta, R. P. (Ed.) (2001) – Ecology and Economics: An Approach to Sustainable Development, Oxford University Press, New Delhi.
11. Woodhall, M. (1992) – Cost Benefit Analysis in Educational Planning, UNESCO, Paris.
12. World Bank (1993) – The World Development Report, 1993: Investing in Health, Oxford University Press, New York.
13. Arun Kumar Singh – Environmental Economics, Deep and Deep Publications Pvt. Ltd., New Delhi.
14. डॉ. हरिमोहन सक्सेना – पर्यावरण एवं प्रदूषण, राजस्थान हिन्दी ग्रंथ अकादमी, जयपुर।

**MEC405A**

**M.A. ECONOMICS 2011-12**  
**SEMESTER – IV**  
**Paper – V A**  
**INDIAN INDUSTRIAL ECONOMICS**

**Unit – I**

Industrial Growth and Pattern of Industrialization in India, Recent trends in Indian Industrial Growth, Trends of Small-scale and Cottage Industries of India.

Financial Statements – Balance Sheet, Profit and Loss Account, Ratio Analysis – Meaning and Forms, Classification of Ratios, Limitations, Cost – Profit Analysis, Techniques of Project Evaluation.

**Unit – II**

Industrial Policies of India (before and after) New Economic Reforms, New Economic Reforms and Industrial Development, Major Indian Industries – Textile, Sugar, Iron and Steel.

**Unit – III**

Multinational Corporations – Definitions, Merits and Demerits, Recent Trends, Perspective code of conduct, Foreign Investment by Indian Companies, MNCs in India.

**Unit – IV**

Role of Public and Private Sectors in Industrial Development, Industrial Proliferation and Environmental Protection, Regional Industrial Growth in India.

**Unit – V**

Industrial Finance – Sources, Types, Components, Institutional Finance – IDBI, IFCI, SFCs, SIDC, Commercial Banks, Money and Capital Markets – Nature, Constituents, Functions, Indian Money and Capital Market.

### Basic Reading List

1. Barthwal, R. R. (1992) – Industrial Economics: An Introductory Text Book, Wiley Eastern Ltd., New Delhi.
2. Cherunilam, F. (1994) – Industrial Economics: Indian Perspective (3<sup>rd</sup> Edition), Himalaya Publishing House, Mumbai.
3. Desai, B. (1999) – Industrial Economy in India (3<sup>rd</sup> Edition), Himalaya Publishing House, Mumbai.
4. Kuchhal, S. C. (1980) – Industrial Economy of India (5<sup>th</sup> Edition), Chaitanya Publishing House, Allahabad.
5. Singh, A. and A. N. Sadhu (1988) – Industrial Economics, Himalaya Publishing House, Bombay.
6. Ahluwalia, I. J. (1985) – Industrial Growth in India, Oxford University Press, New Delhi.
7. Brahmananda, P. R. and V. R. Panchmukhi (Eds.) (1987) – The Development Process of the Indian Economy, Himalaya Publishing House, Bombay.
8. Mamoria and Mamoria (2000) – Dynamics of Industrial Relations in India, (15<sup>th</sup> Edition), Himalaya Publishing House, Mumbai.
9. Naidu, K. M. (1999) – Industrialization and Regional Development in India, Reliance Publishing House, New Delhi.
10. Government of India, Economic Survey (Annual), New Delhi.
11. Devine, P. J. *et al.* (1978) – An Introduction to Industrial Economics (3<sup>rd</sup> Edition), George Allen and Unwin, London.
12. कुलश्रेष्ठ, आर. एस. – औद्योगिक अर्थशास्त्र, साहित्य भवन पब्लिकेशन, आगरा।

**MEC405B**

**M.A. ECONOMICS 2011-12**  
**SEMESTER – IV**  
**Paper – V B**  
**ECONOMETRICS FOR ECONOMICS**

**Unit – I**

Simultaneous Equation Models – Simultaneous dependence of Economic Variables, Consequences of Simultaneous relations – Bias and Inconsistency of OLS estimators, Structural, Reduced form and Recursive models.

**Unit – II**

Problem of identification – The General Economic Model, Conditions for Identification (Rank and Order Conditions), Identification through Restriction, Identification and Multicollinearity.

**Unit – III**

Estimation of Simultaneous Equation Models – Indirect Least Square Method (ILS), Two Stage Least Square Methods (2 SLS), Derivation of ILS and 2 SLS Estimators, Equivalence between ILS and 2 SLS, The Method of Instrumental Variables (IV), Identification and Choice of Estimation Method.

**Unit – IV**

Dummy Explanatory Variables – Testing Structural Stability of Regression Models, Comparing two Regressions and Seasonal Analysis, Regression with Dummy Dependent Variables and Models with Qualitative Dependent Variables – The LPM, Logit, Probit and Tobit Models.

**Unit – V**

Lagged Variables and Distributed Lag Models – Exogenous Lagged Variables and Koyck Model, Rationalisation of Koyck Model, Almon approach to Distributed lag Models, Endogenous Lagged Variables – The Adaptive Expectations and Partial Adjustment Model, Specification Bias.

## Reading List

1. Gujrati, D. (1995) – Basic Econometrics, (3<sup>rd</sup> Edition), McGraw Hill, New Delhi.
2. Johnston, J. (1985) – Econometric Methods, McGraw Hill, New York.
3. Koutsoyiannis, A. (1977) – Theory of Econometrics, (2<sup>nd</sup> Edition), The Macmillan Press Ltd., Hampshire.
4. Maddala, G. S. (1993) – Econometrics: An Introduction, McGraw Hill, New York.
5. S. Shyamala, Navdeep Kaur and T. Arul Pragasam – A Text Book on Econometrics – Theory and Applications, Vishal Publishing Co., Jalandhar.
6. G. M. K. Madnani – Introduction to Econometrics: Principles and Applications, Oxford and IBH Publishing Co. Pvt. Ltd., New Delhi.
7. Chow, G. C. (1983) – Econometrics, McGraw Hill, New York.
8. Dhrymes, P. J. (1970) – Econometrics – Statistical Foundations and Applications, Harper and Row Publishers, New York.
9. Intriligator, M. D. (1978) – Econometric Methods, Techniques and Applications, Prentice Hall, Englewood Cliffs, New Jersey.
10. Pindyck, R. S. and D. L. Rubinfeld (1976) – Econometric Models and Econometric Models and Economic Forecasts, McGraw Hill, Kogakusha, Tokyo.
11. Franses, P. H. (1998) – Time Series Models for Business and Economic Forecasting, Cambridge University Press, Cambridge.
12. Kmenta, J. (1997) – Elements of Econometrics, University of Michigan Press, New York.
13. मदनानी, जी. एम. के. (1996) – अर्थमिति: अवधारणाएं एवं विधियां, ऑक्सफोर्ड एवं आई.बी.एच. कम्पनी प्रा. लि., नई दिल्ली।
14. अग्रवाल, एच. एस. (1998) – अर्थमिति निदर्श, आर.बी.एस.ए. पब्लिशर्स, जयपुर।

**MEC405C**

**M.A. ECONOMICS 2011-12**  
**SEMESTER – IV**  
**Paper – V C**  
**ISSUES OF DEMOGRAPHY IN INDIA**

**Unit – I**

Study of Census in India – Methodology and characteristics of Census, Nature of Information collected in 1971, 1981, 1991 and 2001 Census in India.

**Unit – II**

Concept and Types of Migration – Temporary, Internal and International, International Migration – Its effect on Population Growth and Pattern, Factors affecting Migration, Theories of Migration related to Internal Migration, Urbanization – Growth and Distribution of Rural-Urban Population in Developed and Developing Countries.

**Unit – III**

National Family Health Survey 1 and 2 and Rapid Household Survey, Changing characteristics of Population in India, Population Growth Rates, Trends and Regional Variations in Sex Ratio, Age structure of Population, Total, Infant and Child Mortality Rate Maternal Mortality Rates, Life Expectancy, Appraisal of Kerala Model, Pattern of Migration and Urbanization in India.

**Unit – IV**

Family Planning Strategies and their Outcomes, Reproductive Health, Maternal Nutrition and Child Health Policies, Population and Strategies for Human Development of Different Social Groups, Social impact of new Reproductive Technologies and their regulations, The new Population Policy, Tasks before the National Population Commission.

## Unit – V

Population, Economy and Environmental Linkages – Population, Health, Nutrition, Productivity Nexus, Population and Human Development Issues, Culture and Fertility, Education and Fertility, Demography and Household Economic Behaviour, Evolution of Population Policy in India, The shift in Policy from Population Control to Family Welfare, to Women Empowerment.

### Basic Reading List

1. Agarwal, S. N. (1985) – India's Population Problem, Tata McGraw Hill, Bombay.
2. Agarwal, U. D. (1999) – Population Projections and Their Accuracy, B. R. Publishing Corporation, New Delhi.
3. Bhende, A. A. and T. R. Kanitkar (1982) – Principles of Population Studies, Himalaya Publishing House, Bombay.
4. Bogue, A. (1996) – India's Basic Demographic Statistics, B. R. Publishing Corporation, New Delhi.
5. Choubey, P. K. (2000) – Population Policy in India, Kanishka Publications, New Delhi.
6. Misra, B. D. (1980) – An introduction to the study of population, South Asian Publishers, New Delhi.
7. Srinivasan, K. (Ed.) (1999) – Population Policy and Reproductive Health, Hindustan Publishing Corporation, New Delhi.
8. Census of India, Government of India, Various Reports, New Delhi.
9. Krishnaji, M., R. M. Sudarshan and A. Shariff (1999) – Gender Population and Development, Oxford University Press, New Delhi.

10. Srinivasan, K. (1998) – Basic Demographic Techniques and Applications, Sage Publications, New Delhi.
11. Simon, J. L. (1992) – Population and Development in Poor Countries, Princeton University Press.
12. Agnihotri, S. B. (2000) – Sex ratio in Indian Population: A Fresh Exploration, Sage Publications, New Delhi.
13. Sudarshan and A. Shariff (1999) – Gender Population and Development, Oxford University Press, New Delhi.
14. वी. सी. सिन्हा एवं आर. एस. त्रिवेदी – जनांकिकी के सिद्धान्त, नेशनल पब्लिशिंग हाऊस।

**MEC405D**

**M.A. ECONOMICS 2011-12**  
**SEMESTER – IV**  
**Paper – V D**  
**COMPUTER APPLICATION FOR ECONOMISTS**

**Unit – I**

Basics of Computers and Network – Data Storage and Retrieval, Secondary Storage Devices, Hard Disk, CD ROM, DVD and USB storage, Communication Ports, COM, LPT and USB and Bus, System Software.

**Unit – II**

Application Package – Spreadsheet, Worksheet and Workbook, Editing and formatting, Creating Formula and creating Charts, Functions, Mathematical, Statistical and logical, Pivot table: Conditional sum and statistical analysis of data.

**Unit – III**

Programming with Database: Introduction to Database, Advantages, Data model, MS Access: Data types, table creation, adding, editing, SQL (elementary idea only): Select, where, group, Shorting: Data import and export, Report generations.

**Unit – IV**

Statistical packages – SPSS, Data management and data transformation, Series, groups, tables, graphs and objects, Time and Frequency Series, Joining of data file, Data import and export, Data Creating and Labeling of variables and values.

**Unit – V**

Statistical analysis: Regression analysis, Hypothesis Testing: Tests based on t,  $\chi^2$  (chi-square), F and Z, Factor analysis: Principle Component Analysis, Cluster Analysis.