

# **INDIRA GANDHI UNIVERSITY MEERPUR (REWARI)**

(Established under State legislature Act 29 of 2013)



## **DEPARTMENT OF ECONOMICS**

**Syllabi and Scheme of Examination under Choice Based Credit System  
w.e.f. the Academic Session 2019-20**

## INTRODUCTION

The Master of Arts (M.A.) in Economics is a two-year full-time programme. The programme is organized over two years, each year consisting of two semesters. The programme of study consists of Core Courses (CC), Discipline Centric Elective Courses (DCEC), Open Elective Courses (OEC) and Foundation Course (FC). The Department offers Discipline Centric Elective Courses in each semester of the Programme (based on the availability of teacher expert) and will be started only after the enrollment of minimum five students in the course. Each of these courses will carry 100 marks of which 20 marks will be for internal assessment and 80 marks for the end semester external examinations. The evaluation pattern both for internal as well as external examinations are as per the regulations of the University regulations.

### INSTRUCTIONS FOR THE PAPER-SETTER AND CANDIDATES:

The syllabus of this paper has been divided into four units. There shall be nine questions in all distributed in the. The first question would be compulsory, shall be short answer type. It would carry eight short questions, spread over the entire syllabus. The candidate will be required to attempt all questions. Each short answer type question would carry two marks ( $08 \times 2 = 16$  marks). There shall be two questions from each unit and the candidates shall be required to attempt one question from each unit. Each unit shall carry 16 marks ( $16 \times 4 = 64$  marks).

### SCHEME OF EXAMINATION:

The performance of the students shall be evaluated into two parts. In the first part, through Internal Assessment with 20 marks in the first part and by conducting the Semester End Examinations with 80% marks in the second part. The allocation of marks for the Internal Assessment and Semester End Examinations are as shown below:-

#### Internal Assessment: 20 Marks

1 One Assignment and seminar presentation	05 Marks
2 One periodical class Test	10 Marks
3. Attendance	05Marks

The break-up of marks & pattern for Internal Assessment & attendance component courses/papers shall be as per university rules.

**Note: Use of non-programmable calculators by the students in the Examination Hall is allowed. The calculators will not be provided by the University.**

**PROGRAMME STRUCTURE AND SCHEME OF EXAMINATION**  
**M.A. ECONOMICS**  
**UNDER CHOICE BASED CREDIT SYSTEM W.E.F. 2019-20**

**Semester: I**

**Total Credits: 33**

**Total Marks: 700**

Sr. No.	Course Code	type of Course	Nomenclature of the course	Credits				Examination Scheme			Total
				L	T	P	Total	Theory	Internal Assessment	Prac.	
I	ECO-101	CC	Micro Economics-I	4	1	-	5	80	20	-	100
II	ECO-102	CC	Macro Economics-I	4	1	-	5	80	20	-	100
III	ECO-103	CC	Economics of Growth and Development-I	4	1	-	5	80	20	-	100
IV	ECO-104	CC	Mathematical and Statistical Methods in Economics-I	4	1	-	5	80	20	--	100
V	ECO-105	CC	Current Indian Economic Affairs	4	-	-	4	80	20	-	100
VI	ECO-106	CC	Seminar	-	-	-	1	-	-	-	25
VII	ECO-107	CC	Self-Study Paper	-	-	-	1	-	-	-	25
<b>Discipline Centric Elective Courses: Students have to Choose any one course from the following list:</b>											
VIII	ECO-108	DCEC	History of Economic Thought-I	4	1	-	5	80	20	-	100
IX	ECO -109	DCEC	Financial Economics	4	1	-	5	80	20	-	100
X	ECO -110	DCEC	Economics of Population -I	4	1	-	5	80	20	-	100
XI	ECO -111	DCEC	Rural Economy of India -I	4	1	-	5	80	20	-	100
XII	ECO -112	DCEC	Economics of Health and Education	4	1	-	5	80	20	-	100
XIII	ECO -113	DCEC	Industrial Economics-I	4	1	-	5	80	20	-	100
<b>Foundation Elective Course (FEC): Students have to opt one course from a pool of courses offered by the University at central level</b>											
XIII		<b>FEC</b>	I. Communication Skills and Personality Development	2	-	-	2	40	10	-	50
			II. Value Education	2	-	-	2	40	10	-	50
			<b>Total</b>	<b>26</b>	<b>05</b>		<b>33</b>	<b>520</b>	<b>130</b>		<b>700</b>

**Note: L- Lecture, T- Tutorial, P- Practical, CC- Core Course, FEC – Foundation Elective Course, DCEC- Discipline Centric Elective Course**

**Semester: II****Total Credits: 31****Total Marks: 650**

Sr. No.	Course Code	type of Course	Nomenclature of the course	Credits				Examination Scheme			Total
				L	T	P	Total	Theory	Internal Assessment	Prac.	
I	ECO-201	CC	Micro Economics-II	4	1	-	5	80	20	-	100
II	ECO-202	CC	Macro Economics-II	4	1	-	5	80	20	-	100
III	ECO-203	CC	Economics of Growth and Development-II	4	1	-	5	80	20	-	100
IV	ECO-204	CC	Mathematical and Statistical Methods in Economics-II	4	1		5	80	20	-	100
V	ECO-205	CC	Current Indian Economic Affairs	4	-	-	4	80	20	-	100
VI	ECO-206	CC	Seminar	-	-	-	1	-	-	-	25
VII	ECO-207	CC	Self-Study Paper	-	-	-	1	-	-	-	25
<b>Discipline Centric Elective Courses: Students have to Choose any one course from the following list:</b>											
VIII	ECO -208	DCEC	History of Economic Thought-II	4	1	-	5	80	20	-	100
IX	ECO -209	DCEC	Economics of Population- II	4	1	-	5	80	20	-	100
X	ECO -210	DCEC	Rural Economy of India -II	4	1	-	5	80	20	-	100
XI	ECO -211	DCEC	Economics of Human Resource Development	4	1	-	5	80	20	-	100
XII	ECO -212	DCEC	Economics of Insurance	4	1	-	5	80	20	-	100
XIII	ECO -213	DCEC	Industrial Economics –II	4	1	-	5	80	20	-	100
			<b>Total</b>	<b>24</b>	<b>05</b>	<b>-</b>	<b>31</b>	<b>480</b>	<b>120</b>	<b>-</b>	<b>650</b>

**Note: L- Lecture, T- Tutorial, P- Practical, CC- Core Course, FEC – Foundation Elective Course, DCEC- Discipline Centric Elective Course**

# M.A. ECONOMICS W.E.F. THE SESSION 2019-20

Semester: III

Total Credits: 38

Total Marks: 850

Sr. No.	Course Code	type of Course	Nomenclature of the course	Credits				Examination Scheme			Total
				L	T	P	Total	Theory	Internal Assessment	Prac	
I	ECO-301	CC	Indian Economy-I	4	1	-	5	80	20	-	100
II	ECO-302	CC	International Economics-I	4	1	-	5	80	20	-	100
III	ECO-303	CC	Public Economics-I	4	1	-	5	80	20	-	100
IV	ECO-304	CC	Current Indian Economic Affairs	4	-	-	4	80	20	-	100
V	ECO-305	CC	Computer Applications	2	-	4	4	60		40	100
VI	ECO-306	CC	Seminar	-	-	-	1	-	-	-	25
VII	ECO-307	CC	Self-Study Paper	-	-	-	1	-	-	-	25
<b>Discipline Centric Elective Courses: Students have to Choose any two courses from the following list:</b>											
VIII	ECO -308	DCEC	Agricultural Economics-I	4	1	-	5	80	20	-	100
IX	ECO -309	DCEC	Managerial Economics –I	4	1	-	5	80	20	-	100
X	ECO -310	DCEC	Mathematical Economics–I	4	1	-	5	80	20	-	100
XI	ECO -311	DCEC	Econometrics –I	4	1	-	5	80	20	-	100
XII	ECO -312	DCEC	Labour Economics –I	4	1	-	5	80	20	-	100
XIII	ECO -313	DCEC	Economics of Regional Development & Planning -I	4	1	-	5	80	20	-	100
XIV	ECO -314	DCEC	Economics of Infrastructure-I	4	1		5	80	20	-	100
XV	ECO -315	DCEC	Economics of Gender and Development-I	4	1	-	5	80	20	-	100
XVI	ECO -316	DCEC	Financial Institutions and Markets-I	4	1	-	5	80	20	-	100
XVII	ECO -317	DCEC	Comparative Economics Systems-I	4	1	-	5	80	20	-	100
XVIII	ECO -318	DCEC	General Equilibrium and Welfare Economics	4	1	-	5	80	20	-	100
XIX	ECO -319	DCEC	Environmental and Natural Resources Economics-I	4	1	-	5	80	20	-	100
XX	ECO -320	DCEC	Urban Economics-I	4	1	-	5	80	20	-	100
<b>Open Elective Course (OEC)</b>											
XXI		OEC	Open Elective Course to be opted from other disciplines offered by the other Departments of the University	3	-	-	3	80	20	-	100
			<b>Total</b>	<b>29</b>	<b>05</b>		<b>38</b>	<b>620</b>	<b>140</b>	<b>40</b>	<b>850</b>
<b>Open Elective Course to be offered to other Departments of the University: Students have to choose any from the following list:</b>											
XXII	ECO-321	OEC	Issues in Indian Economy	3			3	80	20		100
XXIII	ECO-322	OEC	Foreign Trade & Policy								
XXIV	ECO-323	OEC	Issues in Indian Agricultural Economy								

Note: L- Lecture, T- Tutorial, P- Practical, CC- Core Course, OEC – Open Elective Course, DCEC- Discipline Centric Elective Course

**M.A. ECONOMICS**  
**w.e.f. the Session 2019-20**

**Semester: IV**

**Total Credits: 38**

**Total Marks: 700**

Sr. No.	Course Code	type of Course	Nomenclature of the course	Credits				Examination Scheme			Total
				L	T	P	Total	Theory	Internal Assessment	Prac	
I	ECO-401	CC	Indian Economy-II	4	1	-	5	80	20	-	100
II	ECO-402	CC	International Economics-II	4	1	-	5	80	20	-	100
III	ECO-403	CC	Public Economics-II	4	1	-	5	80	20	-	100
IV	ECO-404	CC	Current Indian Economic Affairs	4	-	-	4	80	20	-	100
V	ECO-405	CC	Seminar	-	-	-	1	-	-	-	25
VI	ECO-406	CC	Self-Study Paper	-	-	-	1	-	-	-	25
<b>Discipline Centric Elective Courses: Students have to Choose any two courses from the following list:</b>											
VIII	ECO-407	DCEC	Agricultural Economics-II	4	1	-	5	80	20	-	100
IX	ECO-408	DCEC	Managerial Economics –II	4	1	-	5	80	20	-	100
XI	ECO-409	DCEC	Mathematical Economics –II	4	1	-	5	80	20	-	100
XII	ECO-410	DCEC	Econometrics –II	4	1	-	5	80	20	-	100
XIII	ECO-411	DCEC	Labour Economics –II	4	1	-	5	80	20	-	100
XIV	ECO-412	DCEC	Economics of Regional Development & Planning-II	4	1	-	5	80	20	-	100
XV	ECO-413	DCEC	Economics of Infrastructure-II	4	1	-	5	80	20	-	100
XVI	ECO-414	DCEC	Economics of Gender and Development-II	4	1	-	5	80	20	-	100
XVII	ECO-415	DCEC	Financial Institutions and Markets-II	4	1	-	5	80	20	-	100
XVIII	ECO-416	DCEC	Comparative Economics Systems-II	4	1	-	5	80	20	-	100
XIX	ECO-417	DCEC	General Equilibrium and Welfare Economics	4	1	-	5	80	20	-	100
XX	ECO-418	DCEC	Environmental and Natural Resources Economics-II	4	1	-	5	80	20	-	100
XXI	ECO-419	DCEC	Urban Economics-II	4	1	-	5	80	20	-	100
XXII	ECO-420	DCEC	Haryana Economy	4	1	-	5	80	20	-	100
			<b>Total</b>	<b>24</b>	<b>05</b>	<b>-</b>	<b>31</b>	<b>480</b>	<b>120</b>	<b>-</b>	<b>650</b>

**Note: L- Lecture, T- Tutorial, P- Practical, CC- Core Course, OEC – Open Elective Course, DCEC- Discipline Centric Elective Course**

**M.A (ECONOMICS) FIRST SEMESTER  
MICRO ECONOMICS –I  
ECO-101**

**Maximum Marks: 100  
Time: 3 Hrs.**

**External Examination: 80  
Internal Assessment: 20**

***Note: There shall be nine questions in all. Question no. 1 shall be compulsory, consisting of eight short answer type questions covering the entire syllabus. Two questions will be asked from each unit. Student will have to attempt one question from each unit. Each question shall carry equal marks.***

**Unit-I**

**Theory of Demand and Consumer Preferences:** demand function and their properties; Elasticity of demand and its applications; Utility functions and their properties; ordinal approach and revealed preference theory; Hicks and Slutsky decomposition; Applications of indifference curve analysis.

**Unit-II**

**Theory of Production and Costs:** Production decision of a firm; short run and long run production function; Isoquant: the cost- minimizing input choice; traditional and modern theories of costs; Multiproduct firm and dynamic changes in costs; economies of scale; Properties of Cobb -Douglas production function.

**Unit-III**

**Market structure and pricing process:** price and output determination in perfect competition; Monopoly: Measurement and determinants; the social cost of monopoly power; price discrimination; monopolistic competition: Chamberlin's approaches to equilibrium; product variation and selling expenses.

**Unit-IV**

**Oligopoly market structure:** uncertainty and interference; non- collusive models - Cournot, stackelberg and Sweezy's models; collusive models: Cartels, mergers and price leadership; Game theory: Dominant strategy and Nash Equilibrium; Prisoner's Dilemma; Welfare effects of oligopoly.

**SUGGESTED READINGS:**

- Baumol W.J. (1973), Economic Theory and Operations Analysis, Prentice Hall of India, New Delhi.
- E.K. Browning and J.M.Browning (1998), Microeconomics: Theory and Applications, Kalyani Publisher, New Delhi.
- Geoffrey A. Jehle and Philip J. Reny, (2000), Advanced Microeconomic Theory, 2nd ed. Addison Wesley
- Henderson, A.M. and R.E. Quandt (1980) Microeconomic Theory: A Mathematical Approach, McGraw Hill, New Delhi.
- Hubbard R. Glenn and Anthony Patrick O. Brien (2008), Microeconomics, Pearson
- Koutsoyiannis, A. (1979), Modern Microeconomics, (2nd Edition), Macmillan Press,
- Lipsey, R.G. and Chrystal, K. Alec (2003), "An Introduction to Positive Economics" (OUP)
- N.Gregory Mankiw (2012), Principles of Micro Economics, (6th Edition), South Western Publication, Bangalore
- Pindyck, Robert S. and Rubinfeld (2013), Microeconomics (7th Edition), Pearson Education, Positive Economics OUP)
- Salvatore, D. (2009), Principles of micro economics (5th Edn.), Oxford University Press
- Salvatore, D. (1991) "Microeconomic Theory" (Shaum's Outline series, Tata Mc Graw Hill)
- Sen, A. (1999), Microeconomics: Theory and Application, Oxford University Press, New Delhi.
- Stigler, G. (1987), Theory of Price, Prentice Hall of India, New Delhi.
- Varian, H.R. (2009), Intermediate Microeconomics, Norton, New York.

**M.A (ECONOMICS) FIRST SEMESTER  
MACRO ECONOMICS-I  
ECO-102**

**Maximum Marks: 100  
Time: 3 Hrs.**

**External Examination: 80  
Internal Assessment: 20**

***Note: There shall be nine questions in all. Question no. 1 shall be compulsory, consisting of eight short answer type questions covering the entire syllabus. Two questions will be asked from each unit. Student will have to attempt one question from each unit. Each question shall carry equal marks.***

**Unit-I**

Classical Approach - Output and Employment in classical Theory; The Quantity Theory of Money and the Price Level; Classical Model without saving and investment; Classical Model with saving and investment. Keynesian Approach Two Sector Model, Three Sector Model and Four Sector Model.

**Unit-II**

The extended Model (Hickes- Henson Synthesis) : Fixed Price Level – The goods Market and the Money Market; Equilibrium in Goods Market and Money Market; Changes in Aggregate Demand; Government spending, Taxation and Aggregate Demand; The ISLM Elasticities and Monetary and Fiscal Policies.

**Unit-III**

The Extended Model: Variable Price Level - Deviation of Aggregate Demand Curve and Determination of equilibrium price and output level; wage- price flexibility and the Full Employment equilibrium; Monetary- Fiscal policies and the Full- Employment Equilibrium.

**Unit-IV**

Theories of Consumption – The Absolute Income Hypothesis, The Permanent Income Theory of Consumption; The Life cycle Theory of Consumption. Theories of Investment - Present Value Criterion for Investment; Marginal Efficiency of Capital and Investment; Accelerator Theory.

**SUGGESTED READINGS**

- Ackley, G (1978), Macroeconomics: Theory and Policy, Macmillan, New York.
- Banson, W.A. (1989), Macroeconomic Theory and Policy, (3rd Edition), Harper and Row, New York. Dorn Busch, R. and F. Stanley (1997), Macroeconomics, McGraw Hill, Inc. New York.
- Heijdra, B.J. and V.P. Fredricck (2001), Foundation of Modern Macroeconomic, Oxford University Press, New Delhi.
- Jha, R. (1991) Contemporary Macro Economic Theory and Policy, Wiley Eastern Ltd., New Delhi.
- Shapiro, E. (1996), Macroeconomic Analysis, Galgolia Publication, New Delhi. Bo and Reed
- Geoffrey (1994) International Economics, Macmillan Press Ltd.
- Peterson, W.C. (1978), Income Employment and Economic Growth, Norton, New York. Sheffrin, Steven M. (1996), Rational Expectations, 2<sup>nd</sup> edition, Cambridge University Press.



**M.A (ECONOMICS) FIRST SEMESTER  
ECONOMICS OF GROWTH AND DEVELOPMENT-I  
ECO-103**

**Maximum Marks: 100**

**Time: 3 Hrs.**

**External Examination: 80**

**Internal Assessment: 20**

***Note: There shall be nine questions in all. Question no. 1 shall be compulsory, consisting of eight short answer type questions covering the entire syllabus. Two questions will be asked from each unit. Student will have to attempt one question from each unit. Each question shall carry equal marks.***

**Unit-I**

Concept of economic growth and development; core values of development; Sen's capability approach, development and happiness, Sustainable development goals; Measuring Development: -Conventional, Physical Quality of Life Index and Human Development Index; Determinants and obstacles of economic development; Structural diversity and common characteristics of developing nations

**Unit- II**

Measuring development gap and inequality –Lorenz curve, Gini coefficients, Kuznets inverted U hypothesis; Measurement of poverty-head count, FGT Index, Human Poverty Index, Multi-dimensional Poverty Index; Economic characteristics of high poverty groups; Policy options on income inequality and poverty

**Unit-III**

Theories of development – Contribution of Adam Smith, David Ricardo, J.S.Mill, Malthus, Karl Marx and Schumpeter; Rostow's Stages of Growth,

**Unit-IV**

Lewis model of unlimited supply of labour; Strategies of economic growth-Big push, balanced growth, unbalanced growth, Leibenstein's theory of critical minimum effort thesis; Nelson's low-income equilibrium trap

**SUGGESTED READINGS**

- Acemoglu, Daron. (2009). Introduction to Modern Economic Growth, Princeton University Press.
- Aghion, Philippe and Peter Howitt (2009), The Economics of Growth, MIT Press
- Ahuja, H.L (2016), Development Economics, S.Chand Publishing, New Delhi
- Baran Paul, A (1973), Political Economy of growth, Penguin Books
- Basu Kaushik (2010), Analytical Development Economics: The Less Developed Economy, Oxford University Press, New Delhi
- Behrman, S and T.N.Srinivasan (1995), Handbook of Development Economics, Vol 3, Elsevier, Amsterdam
- Ghatak, S. (1986), An Introduction to Development Economics, Allen and Unwin, London.
- Goldin, Ian (2016), The Pursuit of Development, Oxford University Press
- Hayami, Y. (1997), Development Economics, Oxford University Press, New York.
- Janvry, Alain de and Elisabeth Sadoulet (2016), Development Economics-Theory and Practice, Routledge,
- Das, Sibrata et.al. (2015), Economics of Growth and Development, Springer
- Jhingan, M.L. (2014) Economics of Planning and Development, Vrinda Publications, New Delhi.
- Jones, Charles I. 1997. "On the Evolution of the World Income Distribution." Journal of Economic Perspectives
- Lekhi, R.K (2014), The Economics of Development and Planning, Kalyani Publishers, New Delhi
- Mankiw, G., D.Romer, , D.Weil, . 1992. "A Contribution to the Theory of Economic Growth." Quarterly Journal of Macroeconomics, 107 (May) :407-437
- Meier, G.M. (1995), Leading Issues in Economic Development, Oxford University Press, New Delhi.
- Nafziger, E Wayne (2006), Economics Development, Cambridge University Press

- Puri, V.K and S.K. Misra (2017), Economics of Development and Planning, Himalaya Publishing, New Delhi
- Ray Debraj (2012), Development Economics, Oxford University Press, New Delhi
- Robert J. Barro and Xavier I. Sala-i-Martin. (2004) Economic Growth, Cambridge MA: MIT Press
- Rostow, W.W (1959), The stages of economic growth, The economic history review, Vol 12 (1)
- Sen, Amartya. 1970. Growth Economics – Selected Readings, Middlesex, England: Penguin
- Taneja and Meier (2017), Economics of Development and Planning, Vishal Publishing Co. Jalandhar
- Thirwal, A.P. & Penelope Pacheco-Lopez (2017), Economics of Development, Palgrave Macmillan, U.K.
- Todaro, M.P and Stephan C Smith (2017), Economic Development, Pearson.
- Weil, David (2009), Economic growth, Pearson

**M.A (ECONOMICS) FIRST SEMESTER  
MATHEMATICAL AND STATISTICAL METHODS IN ECONOMICS-I  
ECO-104**

**Maximum Marks: 100  
Time: 3 Hrs.**

**External Examination: 80  
Internal Assessment: 20**

***Note: There shall be nine questions in all. Question no. 1 shall be compulsory, consisting of eight short answer type questions covering the entire syllabus. Two questions will be asked from each unit. Student will have to attempt one question from each unit. Each question shall carry equal marks.***

**Unit-I**

Matrices—Types and simple operations on matrices, multiplication, transpose, adjoint, inverse of matrices and rank of matrices. Solution of a system of two and three equations by matrix inverse method and cramer's rule.

**Unit-II**

Introduction and Importance of Statistics in Economics; Measures of central tendency: arithmetic mean, median, quartiles, deciles, percentiles and mode. Measures of dispersion: Range, interquartile range, quartile deviation, mean deviation, standard deviation, variance, coefficient of variation.

**Unit-III**

Index numbers: Problems and methods of construction of various types of indices, Laspeyres, Paasche's and Fishers ideal index numbers. Time reversal, factor reversal and circular tests; chain-base indices, base shifting, splicing and deflating the index numbers, Cost of living index numbers and consumer price index numbers. Time series, components of time series and their decomposition; Methods of measuring trend, cyclical, seasonal and irregular variations.

**Unit-IV**

Basic concepts of probability, definition of probability; Theorems of probability- addition, multiplication and Bayes' theorem; Probability distribution-Binomial and Normal distribution.

**SUGGESTED READINGS:**

- Aggarwal, S. C. and R. K. Rana. Basic Mathematics for Economists (latest edition), V.K. (India), Enterprises, Delhi.
- Chiang, Alpha C. "Fundamental Methods of Mathematical Economics" (Mcgraw Hill).
- Dowling, Edward T. "Mathematics for Economists" (Schaum's Outline Series, Tata Mcgraw Hill).
- Gupta S.C. "Fundamentals of Statistics" S. Chand & Sons New Delhi (1993).
- Gupta S.P. "Fundamentals of Statistics" S. Chand & Sons New Delhi (1992)
- Kamal P.H. and Polasek M. " Applied Statistics for Economists (4th Edition), Pitman, Australia
- Spiegel, Murry R "Theory and problems of Statistics" (Schaum's outline series, McGraw Hill) (1992)

**M.A (ECONOMICS) FIRST SEMESTER  
CURRENT INDIAN ECONOMIC AFFAIRS  
ECO-105**

**Maximum Marks: 100**

**Time: 3 Hrs.**

**External Examination: 80**

**Internal Assessment: 20**

***Note: There shall be eight questions in all covering the entire syllabus. Students have to attempt any four questions. Each question shall carry 20 marks. Medium of paper setting and evaluation will be English and Hindi.***

Students are required to keep themselves updated on various aspects of Indian Economy such as Banking & Finance, Agriculture, Industry, International trade. The topics will be introduced by the concerned teachers on various emerging aspects of the economy in the classrooms followed by general discussion on the same. The topics discussed by the concerned teacher in the class will be supplied to the examination branch for the purpose of paper setting. The question paper will be set as per the topics provided by the teacher concerned.

**SUGGESTED READINGS:**

The Economic times

Financial Express

Business Standard

Economic and Political weekly

Periodicals

**M.A (ECONOMICS) FIRST SEMESTER  
SEMINAR  
ECO-106**

**Total Marks: 25  
Internal Marks: 25**

Students are required to prepare a presentation on any topic, not from syllabus, assigned by the teacher concerned in the department on the theme/topic such as review of research papers/articles published in national or internal journal or any other research based paper in his/her area of interest. Every candidate will have to deliver a seminar of 15-20 minutes duration on the assigned topic. The seminar will be delivered in the presence of students and teachers of the department on any fixed week day of the semester.

The seminar will be evaluated by an internal committee of two internal teachers, constituted by the Chairperson of the Department. The evaluation (internal evaluation only) will be based on the presentation of the student, depth of subject matter of the topic and answer to questions. There will be a Coordinator to be nominated by the Chairperson of the Department among the teachers of the Department..

Distribution of marks will be as follows:

- |   |            |
|---|------------|
| 1. Presentation                                     | = 10 Marks |
| 2. Relevancy & Depth of subject matter of the topic | = 10 Marks |
| 3. Answers to the Questions                         | = 5 Marks  |

**M.A (ECONOMICS) FIRST SEMESTER  
SELF-STUDY PAPER  
ECO-107**

**Total Marks: 25  
Internal Marks: 25**

The objective of this course is to create habits of reading books and to develop writing skills in a manner of creativity and originality. The students will select a topic of their interest with consultation with their teachers/In charge/mentors. After selecting a suitable title for the paper, the student will be required to prepare a hand written report about 6-10 pages in his/her own handwriting. The student will be required to submit the report after getting it checked by the concerned teacher and will be asked to resubmit the report after making the required correction (s) if any before the commencement of the examination of that semester. The structure of the paper will include the following:

- Introduction
- Main Body
- Conclusion

The thoughts presented in the paper must be original work of the students.

The paper will be evaluated by the panel (one external and one internal examiner) to be appointed by the Chairperson of Department from the prescribed panel of the University.

The evaluation of Self Study paper will be done as given below:

- Evaluation of the paper    15 Marks
- Viva-voce on the paper    10 Marks
- Total                                25 Marks

**M.A (ECONOMICS) FIRST SEMESTER  
HISTORY OF ECONOMIC THOUGHT-I  
ECO-108**

**Maximum Marks: 100  
Time: 3 Hrs.**

**External Examination: 80  
Internal Assessment: 20**

***Note: There shall be nine questions in all. Question no. 1 shall be compulsory, consisting of eight short answer type questions covering the entire syllabus. Two questions will be asked from each unit. Student will have to attempt one question from each unit. Each question shall carry equal marks.***

**Unit-I**

Ancient economic thought- Hebrew and Greek Economic Thought; Roman Economic Thought; Medieval economic thought; General outline of Mercantilist theories: Physiocracy - Basic principles and policies, natural order, tableau economique

**Unit-II**

The classical economic thought- Adam Smith, Bentham, Malthus, David Ricardo, J.B.Say, William Senior, J.S.Mill

**Unit-III**

Political Economy of the Poor: The Ideas of William Thompson and Thomas Hodgskin; Karl Marx; Jevon's theory of Value. Walras's Theory of General Equilibrium.; Menger , Essential features of Marginalism

**Unit-IV**

Neoclassical Theories of the Firm and Income Distribution: The Writings of Marshall, Clark, and Biihm-Bawerk; Thorstein Veblen;

**SUGGESTED READINGS**

- Blaug, M (1961) : Economic Theory in Retrospect Cambridge University Press, Cambridge
- Dasgupta, A K (1986) : Epochs of Economic Theory Oxford University Press, New Delhi
- Dobb, Maurice (1973): Theories of Value and Distribution since Adam Smith. Vibha Publishing House Pvt. Ltd., New Delhi
- Eric Roll (1993): A History of Economic Thought Rupa & Co.
- Lautzenheiser Hunt (2011), History of Economic Thought; A Critical Perspective, PHI
- Lionel Robbins (2000), A History of Economic Thought: The LSE Lectures, Princeton University Press
- Paul,R.R (2018), History of Economic Thoughts, Kalyani publishers, New Delhi
- Phillip Charles Newman: The Development of Economic Thought (Prentice Hall).
- R Srivatsan (2012), History of Development Thought: A Critical Anthology, Routledge
- Ricardo, D.: Principles of the Political Economy and Taxation.
- Schumpeter, J.A. (1951) : Ten Great Economists Oxford University Press, New York .
- Schumpeter, J.A. (1954) : History of Economic Analysis, Oxford university Press, New York.
- Sen, A.K , "Choice Welfare and Measurement".
- Sweezy, Paul M (1945): The Theory of Capitalist Development Denis Dobson Ltd., London, 195

**M.A (ECONOMICS) FIRST SEMESTER  
FINANCIAL ECONOMICS  
ECO-109**

**Maximum Marks: 100**

**Time: 3 Hrs.**

**External Examination: 80**

**Internal Assessment: 20**

*Note: There shall be nine questions in all. Question no. 1 shall be compulsory, consisting of eight short answer type questions covering the entire syllabus. Two questions will be asked from each unit. Student will have to attempt one question from each unit. Each question shall carry equal marks.*

**Unit-I**

**Basic Concepts in Finance:** Introduction to corporate finance; Forms of business organization; Goals of financial management, Agency problem; Financial statements: Balance sheet; Profit and loss account; Debt and Equity; Ordinary and Preferential Share Capital; Risk and return - its Measurement; Time value of money- Rationale and practical applications.

**Unit-II**

**Dividends and Valuation:** Cash Dividend, Stock Dividend, Stock Split and Buy Back of Shares; Determinants of dividends; Dividend Theories: Irrelevance of dividends: Modigliani and Miller hypothesis; Relevance of dividends: Walter's model and Gordon's model.

**Unit-III**

**Derivative Markets:** Options: Introduction; Call option, Put option; Put-Call parity theorem; Futures and Forwards: Origin, Basic elements, Organization; Commodity futures, Financial futures. Swaps: Currency and Interest rate swaps; Swaptions; Equity and commodity swaps.

**Unit-IV**

**Financial Service:** Introduction to Financial Services; Merchant Banking; Leasing; Hire Purchase; Venture Capital Financing; Mutual Funds: Types and Valuation; Factoring; Forfeiting; Unit Rating; Depository Services.

**SUGGESTED READINGS**

- Brigham E.F. and J.F. Houston (2013): Fundamentals of Financial Management, South-Western, ND.
- Desai, Vasant (2013): Financial Markets and Financial Services, Himalaya Publishing House, Mumbai.
- Gupta, S.L. (2009): Financial Derivatives: Theory Concepts and Problems, Prentice Hall, ND.
- John, C. Hull. (2008): Options, Futures and Other Derivatives, Prentice-Hall, ND.
- Khan, M.Y.(2013): Financial Services, McGraw Hill, ND.
- Khan, M.Y. and P.K. Jain (2015): Financial Management: Text, Problems and Cases, McGraw Hill, ND.
- Prasanna Chandra (2011): Financial Management: Theory and Practice, McGraw Hill, ND.
- Van Horne, J.C. (2009): Financial Management and Policy, Prentice-Hall, ND.
- Additional Reading List
- Bharati Pathak (2014): Indian Financial System, Pearson India, ND.
- Fisher, D.E. and R.J. Jordan (2012): Security Analysis and Portfolio Management, McGraw Hill, NY.
- Keith Redhead. (2008): Financial Derivatives: An Introduction to Futures, Forwards, Options and Swaps, Prentice Hall, ND.
- Rustogi, R.P. (2011): Financial Management: Theory, Concepts, and Problems, Galgotia Publishers, ND.
- Shapiro, A.C. (1991): Modern Corporate Finance, Macmillan, NY.



**M.A (ECONOMICS) FIRST SEMESTER**  
**ECONOMICS OF POPULATION –I**  
**ECO-110**

**Maximum Marks: 100**

**Time: 3 Hrs.**

**External Examination: 80**

**Internal Assessment: 20**

***Note: There shall be nine questions in all. Question no. 1 shall be compulsory, consisting of eight short answer type questions covering the entire syllabus. Two questions will be asked from each unit. Student will have to attempt one question from each unit. Each question shall carry equal marks.***

**Unit-I**

Theories of population - Malthus, Optimum theory of population; Garry Becker's model, Easterlin, Theory of demographic transition, Coal and Hoover, Simon Kuznets; population and environment-limit to growth

**Unit-II**

Demographic events, sources and methods of data collection; Fertility-concept and rates; Microeconomic household theory of fertility; Factors affecting fertility; Consequences of high fertility rates; Policy approach for fertility; Mortality –concepts, rates, methods of analysis of mortality statistics, differential mortality ; Factors for decline in mortality in recent past

**Unit-III**

Age pyramids; Population ageing -Social and economic implications of population ageing; Life table-classification and uses; Population projection and methods of population projection-trend extrapolation method, cohort component method and structural model, importance of population projection;

**Unit-IV**

Meaning, classification, determinants, factors and consequences of migration, measurement of migration-direct and indirect; Harris-Todaro model of migration; Urbanization- Global trends and distribution of rural-urban population in developing countries, the urban giantism problem; comprehensive strategy for urbanization, migration and employment

**SUGGESTED READINGS**

- Bhende, Asha A. and Tara Kanitkar (2019) Principles of Population Studies, Himalaya Publishing House, Mumbai
- Bogue, D.J. (1971), Principles of Demography, John Wiley, New York.
- Chenery H. and T.N. Srinivasan (Eds.)(1989), Hand Book of Development Economics, Vol. 1 & 2 Elsevier, Amsterdam.
- Chiang, C.L. (1974), Life Tables and Mortality Analysis, W.H.O., Geneva.
- Choubey, P.K. (2000), Population Policy in India, Kanishka Publications, New Delhi.
- Coale A.J. and Hoover, E.M. (1958): Population Growth and Economic Development in Low Income countries, Princeton N. J.: Princeton University Press
- Gould, W.T.S.: Population and Development, Routledge, Taylor & Francis Group, London, 2009.
- Harris, J.R and Michael P. Todaro (1970) Migration, Unemployment and Development: A Two-Sector Analysis, The American Economic Review, Vol. 60, No. 1. (1970), pp. 126-142.
- Henry S. Shryock, Jacob S. Siegel, Elizabeth A. Larmon (1973) The Methods and Materials of Demography, Elsevier Science, USA.
- Jhingan, M.L et.al. (2016), Demography, Vrinda Publications, New Delhi
- John Weeks (2005): Population: An Introduction to Concepts and Issues, Wordsworth Learning. Singapore 9th edition.
- Krishnaji M., R.M. Sudarshan and A.Shariff (1999), Gender Population and Development, Oxford University Press, New Delhi.
- Majumdar, P.K (2010), Fundamentals of Demography, Rawat Publications, Jaipur

- Mishra S. (2000), Voluntary Action in Health and Population: The Dynamics of Social Transition, Sage, New Delhi.
- Pant, J.C (2015), Demography, Vishal Publications, Jalandhar
- Pathak, K.B and F.Ram (2019), Techniques of demographic analysis, Himalaya Publications House, Mumbai
- Simon, J.L. (1992), Population and Development in Poor Countries, Princeton University Press.
- Sinha, V.C & E.Zacharia (2016), Elements of Demography, Allied Publishers, New Delhi
- Srinivasan, K, (1998), Basic Demographic Techniques and Applications, Sage, New Delhi.
- Sudarshan and A. Shariff (1999), Gender Population and Development, Oxford University Press, New Delhi.
- Todaro, Michael, P & Stephen C Smith (2019), Economic Development, Pearson India

**M.A (ECONOMICS) FIRST SEMESTER  
RURAL ECONOMY OF INDIA-I  
ECO-111**

**Maximum Marks: 100**

**Time: 3 Hrs.**

**External Examination: 80**

**Internal Assessment: 20**

***Note: There shall be nine questions in all. Question no. 1 shall be compulsory, consisting of eight short answer type questions covering the entire syllabus. Two questions will be asked from each unit. Student will have to attempt one question from each unit. Each question shall carry equal marks.***

**Unit-I**

Socio-economic structure of rural India; Farm based livelihoods in India-key issues; Profile of rural poor; Estimating rural poverty in India across states and social groups; Employment and unemployment in rural areas; Economic reforms and rural poverty; Agrarian relations and labour in rural India ; Rural non-farm sector in India

**Unit-II**

Targeted Poverty Alleviation and employment generation Programmes- CDP, IADP, National Rural Livelihood Mission, Mahatma Gandhi National Rural Employment Guarantee Scheme ; Public Distribution System in rural areas, Social Security Programme

**Unit-III**

Institutional and non-Institutional Sources of Rural and agricultural credit in India; Policies and reforms in rural credit; Role of NABARD, Cooperative Credit Institutions, Commercial Banks and Regional Rural Banks, Micro Credit and Self-help Groups; Rural and agricultural Insurance;

**Unit-IV**

Growth and development of cottage and village industries in India; Policies for Rural Industries; Agro-based Industries, rural handicrafts and Handloom, Khadi, Conditions of rural artisan and policies; Institutional support to rural entrepreneurship, Cluster Development Programme

**SUGGESTED READINGS:**

- Desai, Vasant (2018), Rural Development in India, Himalaya Publishing House, Mumbai
- Dwivedi, Amit Kumar (2012), Rural Entrepreneurship development in liberalized era, Bookwell publication
- Green , Gary Paul (2013), Handbook of Rural Development, Edward elgar Publishing, UK
- Hussain, Tahir et.al (2018), Fundamentals of rural development, I.K. International Publications, New Delhi
- Jodhka, Surender S (2018), A Handbook of Rural India, Orient black swan
- Kumaran, K.P (2017), Flagship programmes- impact, problems and challenges ahead, Academic Foundation, New Delhi
- Prasad, C.S (2009), Agriculture and rural development in India since 1947, New Century Publications, New Delhi
- Reddy, K, Venkata (2018), Agriculture and Rural Development, Himalaya Publishing House, Mumbai
- Roy Shovan (2012), Handbook of Indian Agriculture, Oxford University Press, New Delhi
- Roy, Debesh et.al (2018), Rural India Perspective 2017, Oxford India, New Delhi

- Satyanarayna, G and H.S, Madhusudna (2012), Rural Development and poverty alleviation in India, New Century Publications, New Delhi
- Saurabh, Shantanu (2017), Financial Inclusion and rural development, Bharti publications
- Singh, Katar & Anil Shisodiya (2016), Rural Development, Sage India, New Delhi
- Singh, Malvika (2017), Agricultural economy of India-current status and issues, New Century Publications, New Delhi
- Sahoo, Nirnjan (2018), Rural development and livelihoods in India, New Century Publications, New Delhi
- Sundram, I, Satya (2019), Rural Development, Himalaya Publications House, Mumbai
- Tyagi, B.P and H.P. Singh (2017), Agricultural economics and rural development, Jai Praksh Nath and Co, Meerut
- Vyas, Vijay Shankar (2015), Mainstreaming the marginalized, Academic Foundation, New Delhi
- William, A. Thomas & A.J.Christopher (2011), Rural Development-Concept and recent approaches, Rawat Publications, Jaipur

**M.A (ECONOMICS) FIRST SEMESTER  
ECONOMICS OF HEALTH AND EDUCATION  
ECO-112**

**Maximum Marks: 100**

**Time: 3 Hrs.**

**External Examination: 80**

**Internal Assessment: 20**

***Note: There shall be nine questions in all. Question no. 1 shall be compulsory, consisting of eight short answer type questions covering the entire syllabus. Two questions will be asked from each unit. Student will have to attempt one question from each unit. Each question shall carry equal marks.***

**Unit- I**

**Introduction to Health Economics:** the Concept of health and health care; determinants of health- poverty, malnutrition; Economic dimensions of health care; demand and supply side of health care; Market for health insurance; sources of public funds for health; The role of government financing institutions in health care financing.

**Unit- II**

**Health Sector issues and Policies:** Private benefits and costs of providing health services; the failure of the market to provide essential health services; the provision of health services by the government; Growth in expenditure of personal health services; out of pocket expenditure (OOP); review of recent national health care policy and a discussion of other feasible alternatives.

**Unit- III**

**Economics of Education:** Concept and scope of Economics of Education; Education as consumption and investment goods; Human capital: concept and components of human capital; Education and economic growth; Demand for and Supply of Education; determinants of demand for education; costs and benefits of education (private and social).

**Unit- IV**

**Educational Planning and Financing:** Approaches to educational planning - Production function models; Manpower Requirement Approach, Input-Output model, Gender based Approach; Educational planning in developing countries with special reference to India; educational financing in India- equity and efficiency effects of financing education in India.

**SUGGESTED READINGS:**

- Berman, P. (Ed.) (1995) Health Sector Reform in Developing Countries: Making Health Development
- Blaug, M. (1972). Introduction to Economics of Education, Penguin, London.
- Cohen, E. and T. Gaske (1989). Economics of Education, Pergamon Press, London.
- Henderson, J. W. (2007): Health Economics & Policy, (3e), Thomson South-Western, U.K.
- Klarman, H.E. (1965). The Economics of Health, Columbia University Press, NY.
- Mc Mohan, W.W. (1999). Education and Development: Measuring the Social Benefits, OUP, Oxford.
- Psacharopoulos, G. (ed.) (1987). Economics of Education: Research and Studies, Pergamon Press, Oxford.
- Olsen, Jan Abel (2010). Principles in Health Economics and Policy, Oxford University Press
- Tilak, J.B.G. (1994). Education for Development in Asia, Sage, ND.
- Vaizoy (1962). Economics of Education, Faber and Faber, London.
- Woodhall, M. (1992). Cost Benefit Analysis in Educational Planning, UNESCO, Paris.
- World Bank (1993). The World Development Report, 1993: Investing in Health, OUP, NY.
- Baru, R.V. (1998): Private Health Care in India: Social Characteristics and Trends, Sage, ND
- Becker, G.S. (1974): Human Capital (2e), National Bureau of Economic Research, NY.
- Berman, P. and M.E. Khan (1993): Paying for India's Health Care, Sage, ND.

**M.A (ECONOMICS) FIRST SEMESTER  
INDUSTRIAL ECONOMICS-I  
ECO-113**

**Maximum Marks: 100  
Time: 3 Hrs.**

**External Examination: 80  
Internal Assessment: 20**

***Note: There shall be nine questions in all. Question no. 1 shall be compulsory, consisting of eight short answer type questions covering the entire syllabus. Two questions will be asked from each unit. Student will have to attempt one question from each unit. Each question shall carry equal marks.***

**Unit - I**

Concept and Organization of a firm: Organisation of firms on the basis of ownership and control, objective of a business firm; Market concentration, measurement and determinants of seller's concentration.

**Unit-II**

Theories of industrial location: Weber and Sargent Florence theories of industrial location, Factors affecting location; Theories of product pricing, transfer pricing, pricing in public enterprises.

**Unit-III**

Market Performance and Growth: Productive Efficiency. Growth of the firm, theories of growth of firm, constraints on growth.

**Unit-IV**

Market structure and profitability; Alternative to Profit Maximization- Baumol, Williamson, Marris and Cyert and March. Market structure and innovation.

**SUGGESTED READINGS:**

- Ahluwalia, I.I. (1985), Industrial Growth in India, Oxford University Press, New Delhi.
- Barthwal, R.R. (2010), Industrial Economics, Wiley Eastern Ltd. New Delhi.
- Cherunilam, F. (1994) Industrial Economics: Indian Perspective (3rd Edition), Himalaya Publishing House, Mumbai.
- Desai, B. (1999) Industrial Economy in India (3rd Edition) Himalaya Publishing House Mumbai.
- Divine, P.J. and R.M. Jones et Al (1976), An Introduction to Industrial Economics, George Allen and Unwin Ltd., London.
- Hay, D. and D.J. Morris (1976) Industrial Economics : Theory and Evidence University Press, New Delhi.
- Kuchal S.C. (1980) Industrial Economy of India (5th Edition), Chaitanya Publishing House Allabad.
- Singh, A. and A.N. Sadhu (1988), Industrial Economics, Himalaya Publishing House, Bombay

**M.A (ECONOMICS) SECOND SEMESTER  
MICRO ECONOMICS – II  
ECO-201**

**Maximum Marks: 100  
Time: 3 Hrs.**

**External Examination: 80  
Internal Assessment: 20**

***Note: There shall be nine questions in all. Question no. 1 shall be compulsory, consisting of eight short answer type questions covering the entire syllabus. Two questions will be asked from each unit. Student will have to attempt one question from each unit. Each question shall carry equal marks.***

**Unit-I**

**Alternative theories of the firm:** Critical evaluation of marginal analysis; Baumol's Sales revenue maximization hypothesis (static model without advertisement); Average cost pricing; Marris maximum rate of growth and profits; Williamson's model of managerial discretion; Bain's limit pricing; behavioural theory of the firm (Cyert and March model).

**Unit-II**

**Price and employment of factor inputs:** factor pricing under competitive conditions, with monopolistic power in product market; monopsony in factor market, bilateral monopoly in factor market; effect of labour unions on wages; economics of discrimination in employment; Product exhaustion problem -Euler's theorem.

**Unit-III**

**Welfare Economics:** Growth of GNP and welfare; Criteria of welfare maximization; Edgeworth box; Pareto optimality criterion and efficiency conditions; Kaldor- Hicks compensation principle; Bergson's social welfare function; Arrow's impossibility theorem; equity and efficiency trade-off.

**Unit-IV**

**Economics of Information and Market Failure:** Implications of asymmetric information; the market for lemons and adverse selection; market signaling; moral hazard; the Principal-agent problem; Efficiency wage theory; Externalities and public goods.

**SUGGESTED READINGS:**

- Baumol W.J. (1973), Economic Theory and Operations Analysis, Prentice Hall of India, New Delhi.
- E.K. Browning and J.M.Browning (1998), Microeconomics: Theory and Applications, Kalyani Publisher, New Delhi.
- Geoffrey A. Jehle and Philip J. Reny, (2000), Advanced Microeconomic Theory, 2nd ed. Addison Wesley
- Henderson, A.M. and R.E. Quandt (1980) Microeconomic Theory: A Mathematical Approach, McGraw Hill, New Delhi.
- Hubbard R. Glenn and Anthony Patrick O. Brien (2008), Microeconomics, Pearson
- Koutsoyiannis, A. (1979), Modern Microeconomics, (2nd Edition), Macmillan Press,
- Lipsey, R.G. and Chrystal, K. Alec (2003), "An Introduction to Positive Economics" (OUP)
- N.Gregory Mankiw (2012), Principles of Micro Economics, (6th Edition), South Western Publication, Bangalore
- Pindyck, Robert S. and Rubinfeld (2013), Microeconomics (7th Edition), Pearson Education, Positive Economics (OUP)
- Salvatore, D. (2009), Principles of micro economics (5th Edn.), Oxford University Press
- Salvatore, D. (1991) "Microeconomic Theory" (Shaum's Outline series, Tata Mc Graw Hill)
- Sen, A. (1999), Microeconomics: Theory and Application, Oxford University Press, New Delhi.
- Stigler, G. (1987), Theory of Price, Prentice Hall of India, New Delhi.
- Varian, H.R. (2009), Intermediate Microeconomics, Norton, New York.

**M.A (ECONOMICS) SECOND SEMESTER  
MACRO ECONOMICS-II  
ECO-202**

**Maximum Marks: 100  
Time: 3 Hrs.**

**External Examination: 80  
Internal Assessment: 20**

*Note: There shall be nine questions in all. Question no. 1 shall be compulsory, consisting of eight short answer type questions covering the entire syllabus. Two questions will be asked from each unit. Student will have to attempt one question from each unit. Each question shall carry equal marks.*

**Unit-I**

The Demand for and supply of money : Classical Approach to Demand for Money - Quantity Theory Approach; Fisher's equilibrium; Cambridge Quantity theory; Keynes Liquidity Approach - Transaction, Precautionary and Speculative Demand for Money, Aggregate Demand for Money; Friedman, Patinkin, Baumol and Tobin.

**Unit-II**

Inflation : Definition of Inflation ; Economic effects of Inflation - The effect of Inflation on the distribution of Income and Wealth, The effect of Inflation on output, Employment and the Growth Rate; Demand side and supply side theories of inflation.

**Unit-III**

Inflation and unemployment: The Phillips Curve, The Inflationary Pressure Curve: Phillips Curve, Inflationary Pressure Curve and the Rate of inflation. the Phillips Curve; Trade off and Non Trade off. Adaptive Expectation and Rational Expectation, Keynesianism Vs Monetarism.

**Unit-IV**

TradeCycles - Models of Samuelson, Hicks and Kaldor, Neo Classical Model (with money & without money). International Adjustment: The Determination of National Income in open Economy; The International Transmission of Disturbance: Transmission under Fixed Exchange Rate; Transmission under Floating Exchange rate (Mundell Fleming Model).

**SUGGESTED READINGS**

- Ackley, G (1978), Macroeconomics: Theory and Policy, Macmillan, New York.
- Banson, W.A. (1989), Macroeconomic Theory and Policy, (3rd Edition), Harper and Row, New York.
- Dorn Busch, R. and F. Stanley (1997), Macroeconomics, McGraw Hill, Inc. New York.
- Heijdra, B.J. and V.P. Fredricck (2001), Foundation of Modern Macroeconomic, Oxford University Press, New Delhi.
- Jha, R. (1991) Contemporary Macroeconomics Theory and Policy, Wiley Eastern Ltd., New Delhi.
- Shapiro, E. (1996), Macroeconomic Analysis, Galgolia Publication, New Delhi.
- Bo and Reed Geoffrey (1994) International Economics, Macmillan Press Ltd.
- Peterson, W.C. (1978), Income Employment and Economic Growth, Norton, New York. Sheffrin, Steven M. (1996), Rational Expectations, 2nd edition, Cambridge University Press



**M.A (ECONOMICS) SECOND SEMESTER**  
**ECONOMICS OF GROWTH AND DEVELOPMENT-II**  
**ECO-203**

**Maximum Marks: 100**  
**Time: 3 Hrs.**

**External Examination: 80**  
**Internal Assessment: 20**

*Note: There shall be nine questions in all. Question no. 1 shall be compulsory, consisting of eight short answer type questions covering the entire syllabus. Two questions will be asked from each unit. Student will have to attempt one question from each unit. Each question shall carry equal marks.*

**Unit-I**

Growth Models- Harrod and Domar, Joan Robinson and Kaldor ; Neo-classical growth models- J.E. Meade and R.M. Solow; New (Endogenous) Growth Theory

**Unit-II**

Myrdal thesis of cumulative causation; Prebisch model of regional growth rate differences, Theories of Dependence- Paul Baran, Andre Gunder Frank and Samir Amin, Foreign capital and economic development- role of MNCs; Two gap model

**Unit-III**

Role of agriculture in economic development of developing economies; Role of state in economics development; Fiscal policies for economic development; Finance and development-monetary policies and microfinance, Environment and development-some basic issues and policy issues

**Unit-IV**

Development Planning-concept, types and rational; Planning and market mechanism; Alternative investment criteria; Project evaluation and Cost-benefit analysis; Technical progress-embodied and disembodied

**SUGGESTED READINGS**

- Aghion, Philippe and Peter Howitt (2009), The Economics of Growth, MIT Press
- Amin, S. (1977), Imperialism and Unequal Development. New York and London: Monthly Review Press.
- Baran Paul, A (1973), Political Economy of growth, Penguin Books
- Barro Robert (2004), Economic Growth, MIT Press
- Barro, R.J. (1990), "Economic Growth in a Cross Section of Countries", Quarterly Journal of Economics, 106(2)
- Basu Kaushik (2010), Analytical Development Economics: The Less Developed Economy, OUP, New Delhi
- Chenery, Hoilis, B (1969), The two gap approach to aid and development: A reply to Bruton, The American Economic Review, Vol 59 (3)
- Domar, E. 1946. "Capital Expansion, Rate of Growth, and Employment". Econometrica. 14 (2): 137–147.
- Emmanuel, A. 1972. Unequal Exchange: A Study of the Imperialism of Trade. New York and London: The Monthly Review Press
- Frank, A.G. 1966. The Development of Under development, Monthly Review, 18(4)
- Ghatak, S. (1986), An Introduction to Development Economics, Allen and Unwin, London.
- Goldin, Ian (2016), The Pursuit of Development, Oxford University Press
- Hayami, Y. (1997), Development Economics, Oxford University Press, New York.
- Harrod, Roy F. 1939. "An Essay in Dynamic Theory". The Economic Journal. 49 (193): 14–33.
- Janvry, Alain de and Elisabeth Sadoulet (2016), Development Economics-Theory and Practice, Routledge,
- Das, Sibrata et.al. (2015), Economics of Growth and Development, Springer
- Jhingan, M.L. (2014) Economics of Planning and Development, Vrinda Publications, New Delhi.

- Kaldor, N. 1957. "A Model of Economic Growth." *The Economic Journal*, 67(268): 591-624.
- Lekhi, R.K (2014), *The Economics of Development and Planning*, Kalyani Publishers, New Delhi
- Nafziger, E Wayne (2006), *Economics Development*, Cambridge University Press
- Puri, V.K and S.K. Misra (2017), *Economics of Development and Planning*, Himalaya Publishing, New Delhi
- Ray Debraj (2012), *Development Economics*, Oxford University Press, New Delhi
- Solow, Robert. 2000. *Growth Theory: An Exposition*. 2nd ed. NY: Oxford University Press
- Taneja and Meier (2017), *Economics of Development and Planning*, Vishal Publishing Co. Jalandhar
- Thirwal, A.P. & Penelope Pacheco-Lopez (2017), *Economics of Development*, Palgrave Macmillan, U.K.
- Todaro, M.P and Stephan C Smith (2017), *Economic Development*, Pearson.
- Weil, David (2009), *Economic growth*, Pearson

**M.A (ECONOMICS) SECOND SEMESTER  
MATHEMATICAL AND STATISTICAL METHODS IN ECONOMICS –II  
ECO-204**

**Maximum Marks: 100  
Time: 3 Hrs.**

**External Examination: 80  
Internal Assessment: 20**

***Note: There shall be nine questions in all. Question no. 1 shall be compulsory, consisting of eight short answer type questions covering the entire syllabus. Two questions will be asked from each unit. Student will have to attempt one question from each unit. Each question shall carry equal marks.***

**Unit-I**

Differentiation- meaning and economic interpretations of derivative, rules of differentiation including logarithms and exponential functions. Economic application of differentiation. Integration - meaning and economic interpretation. Indefinite and definite integration. Simple techniques including integration by substitution and integration by parts, Economic application of integration.

**Unit-II**

Correlation and regression: Simple correlation, Karl Pearson and Spearman's correlation coefficients.

Specification of a simple linear regression model, least square estimation of linear regression coefficients and their properties.

**Unit-III**

Types of data, Need for collecting Primary data, census versus sample enumeration, Methods and types of sampling; sampling error, Elements of statistical Inference: Parameters and estimates; concepts of sampling distribution of mean, standard error

**Unit-IV**

Basic concept of hypothesis testing, procedure of testing a hypothesis, Type I and Type II errors, level of significance and power of a test. tests of significance (z, t, chi square and F test),

**SUGGESTED READINGS:**

- Aggarwal, S. C. and R. K. Rana. Basic Mathematics for Economists (latest edition), V.K. (India), Enterprises, Delhi.
- Chiang, Alpha C. "Fundamental Methods of Mathematical Economics" (Mcgraw Hill).
- Dowling, Edward T. "Mathematics for Economists" (Schaum's Outline Series, Tata Mcgraw Hill).
- Gupta S.C. "Fundamentals of Statistics" S. Chand & Sons New Delhi (1993).
- Gupta S.P. "Fundamentals of Statistics" S. Chand & Sons New Delhi (1992)
- Kamal P.H. and Polasek M. " Applied Statistics for Economists (4th Edition), Pitman, Australia.
- Spiegel, Murry R "Theory and problems of Statistics" (Schaum's outline series, McGraw Hill) (1992)

**M.A (ECONOMICS) FIRST SEMESTER  
CURRENT INDIAN ECONOMIC AFFAIRS  
ECO-205**

**Maximum Marks: 100**

**External Examination: 80**

**Time: 3 Hrs.**

**Internal Assessment: 20**

***Note: There shall be eight questions in all covering the entire syllabus. Students have to attempt any four questions. Each question shall carry 20 marks. Medium of paper setting and evaluation will be English and Hindi.***

Students are required to keep themselves updated on various aspects of Indian Economy such as Banking & Finance, Agriculture, Industry, International trade etc.. The topics will be introduced by the concerned teachers on various emerging aspects of the economy in the classrooms followed by general discussion on the same. The topics discussed by the concerned teacher in the class will be supplied to the examination branch for the purpose of paper setting. The question paper will be set as per the topics provided by the teacher concerned.

**SUGGESTED READINGS:**

The Economic times

Financial Express

Business Standard

Economic and Political weekly

Periodicals

**M.A (ECONOMICS) SECOND SEMESTER  
SEMINAR  
ECO- 206**

**Total Marks: 25  
Internal Marks: 25**

Students are required to prepare a presentation on any Basic Research Paper/Article, on the theme/topic such as review of research papers/articles published in national or internal journal or any other research based paper in his/her area of interest. Every candidate will have to deliver a seminar of 15-20 minutes duration on the assigned topic. The seminar will be delivered in the presence of students and teachers of the department on any fixed week day of the semester. The student shall consult the teacher concerned for the selection of topic for preparation of research paper/article to be presented.

The seminar will be evaluated by an internal committee of two internal teachers, constituted by the Chairperson of the Department. The evaluation (internal evaluation only) will be based on the presentation of the student, depth of subject matter of the topic and answer to questions. There will be a Coordinator to be nominated by the Chairperson of the Department among the teachers of the Department..

Distribution of marks will be as follows:

- |   |            |
|---|------------|
| 4. Presentation                                     | = 10 Marks |
| 5. Relevancy & Depth of subject matter of the topic | = 10 Marks |
| 6. Answers to the Questions                         | = 5 Marks  |

**M.A (ECONOMICS) SECOND SEMESTER  
SELF-STUDY PAPER  
ECO- 207**

**Total Marks: 25  
Internal Marks: 25**

The objective of this course is to create habits of reading books and to develop writing skills in a manner of creativity and originality. The students will select a topic of their interest with consultation with their teachers/In charge/mentors. After selecting a suitable title for the paper, the student will be required to prepare a hand written report about 6-10 pages in his/her own handwriting. The student will be required to submit the report after getting it checked by the concerned teacher and will be asked to resubmit the report after making the required correction (s) if any before the commencement of the examination of that semester. The structure of the paper will include the following:

- Introduction
- Main Body
- Conclusion

The thoughts presented in the paper must be original work of the students.

The paper will be evaluated by the panel (one external and one internal examiner) to be appointed by the Chairperson of Department from the prescribed panel of the University.

The evaluation of Self Study paper will be done as given below:

- Evaluation of the paper    15 Marks
- Viva-voce on the paper    10 Marks
- Total                                25 Marks

**M.A (ECONOMICS) SECOND SEMESTER  
HISTORY OF ECONOMIC THOUGHT-II  
ECO-208**

**Maximum Marks: 100  
Time: 3 Hrs.**

**External Examination: 80  
Internal Assessment: 20**

*Note: There shall be nine questions in all. Question no. 1 shall be compulsory, consisting of eight short answer type questions covering the entire syllabus. Two questions will be asked from each unit. Student will have to attempt one question from each unit. Each question shall carry equal marks.*

**Unit-I**

Theories of Imperialism: The Writings of Hobson, Luxemburg, and Lenin

**Unit-II**

Economics of welfare: A.C. Pigou, A.P. Learner, V. Pareto;

**Unit-III**

Keynesianism and Post Keynesian Developments, Supply side economics, Monetarism; Institutionalism; Revival of Critical Political Economy;

**Unit-IV**

Indian economic thought: Dadabhai Nowrojee, M. G. Ranade, C.N.Vakil, B.R.Ambedkar, J.K. Mehta, Gandhi, Amartya Sen

**SUGGESTED READINGS**

- Blaug, M (1961) : Economic Theory in Retrospect Cambridge University Press, Cambridge
- Dasgupta, A K (1986) : Epochs of Economic Theory Oxford University Press, New Delhi
- Dobb, Maurice (1973): Theories of Value and Distribution since Adam Smith. Vibha Publishing House Pvt. Ltd., New Delhi
- Eric Roll (1993): A History of Economic Thought Rupa & Co.
- Lautzenheiser Hunt (2011), History of Economic Thought; A Critical Perspective, PHI
- Lionel Robbins (2000), A History of Economic Thought: The LSE Lectures, Princeton University Press
- Paul, R.R (2013), History of Economic Thoughts, Kalyani publishers, New Delhi
- Phillip Charles Newman: The Development of Economic Thought (Prentice Hall).
- R. Srivatsan (2012), History of Development Thought: A Critical Anthology, Routledge
- Ricardo, D.: Principles of the Political Economy and Taxation.
- Schumpeter, J.A. (1951) : Ten Great Economists Oxford University Press, New York .
- Schumpeter, J.A. (1954) : History of Economic Analysis, Oxford university Press, New York.
- Sen, A.K, "Choice Welfare and Measurement".
- Sweezy, Paul M (1945): The Theory of Capitalist Development Denis Dobson Ltd., London, 195

**M.A (ECONOMICS) SECOND SEMESTER  
ECONOMICS OF POPULATION –II  
ECO-209**

**Maximum Marks: 100**

**Time: 3 Hrs.**

**External Examination: 80**

**Internal Assessment: 20**

***Note: There shall be nine questions in all. Question no. 1 shall be compulsory, consisting of eight short answer type questions covering the entire syllabus. Two questions will be asked from each unit. Student will have to attempt one question from each unit. Each question shall carry equal marks.***

**Unit-I**

World population growth; Indian population statistics and their sources; Study of census in India-Methodology and characteristics of census; Nature of information collected in the latest census in India; NSS, DLHS, Rapid household survey; Latest National Family Health Survey

**Unit-II**

Trends and growth of India's population; Occupational structure of Indian population; Trends in sex ratio and missing women; Age structure of population, fertility in India; Infant, child and maternal mortality in India; Population ageing trends, patterns and determinants in India

**Unit-III**

Demographic transition in India; labour force participation in India; Trends and pattern of Migration of rural population to urban areas in India; Urbanization in India and development process-its determinants and consequences; smart cities mission

**Unit-IV**

Family planning strategies and their outcomes; Reproductive health, maternal nutrition and child health policies in India; Population and strategies for human development of different social groups; New population policy in India and National Population Commission.

**SUGGESTED READINGS**

- Agnihotri, S.B. (2000), Sex ration in Indian Population: A Fresh Exploration, Sage New Delhi.
- Baud, I.S.A. (1992), Form of Production and Women's Labour, Gender Aspects of Industrialization in India and Mexico, Sage, New Delhi.
- Bose, A. (1996), India's Basic Demographic Statistics, B.R. Publishing Corporation, New Delhi.
- Choubey, P.K. (2000), Population Policy in India, Kanishka Publications, New Delhi.
- Coale, A.J. and E.M. Hoover (1958), Population Growth and Economic Development in Low Income Countries: A Case Study of India's Prospectus, Princeton University Press, Princeton.
- Gulati, S.C. (1988), Fertility in India: An Econometric Study of a Metropolis, Sage, New Delhi.
- Krshnaji M., R.M. Sudarshan and A. Shariff (1999), Gender Population and Development, Oxford University Press, New Delhi.
- Mishra S. (2000), Voluntary Action in Health and Population: The Dynamics of Social Transition, Sage, New Delhi.
- Srinivasan, K. and A.Shariff (1998), India: Towards Population and Demographic Goals, Oxford University Press, New Delhi.
- Sudarshan and A. Shariff (1999), Gender Population and Development, Oxford University Press, New Delhi.
- Visaria, V (1985), Infant mortality in India: level, trends and determinats, EPW, Vol 20 (32)



**M.A (ECONOMICS) SECOND SEMESTER**  
**RURAL ECONOMY OF INDIA-II**  
**ECO-210**

**Maximum Marks: 100**  
**Time: 3 Hrs.**

**External Examination: 80**  
**Internal Assessment: 20**

*Note: There shall be nine questions in all. Question no. 1 shall be compulsory, consisting of eight short answer type questions covering the entire syllabus. Two questions will be asked from each unit. Student will have to attempt one question from each unit. Each question shall carry equal marks.*

**Unit-I**

Stakeholders in the development of Indian rural economy- DRDA, District Planning Committees (DPCs), Panchayati Raj Institutions, Self Help Groups, voluntary organizations, NGOs, people participation and corporate sectors

**Unit-II**

Health and Nutrition Status in Rural India; Health care services in Rural India-programmes and performances; Rural Sanitation programmes; Rural Education- Educational schemes and facilities in rural areas; Right to education; Mid day meal programme

**Unit-III**

Rural marketing-Marketing on inputs and outputs; Role of NAFED Agricultural produce Marketing Committee Role of Farmers Organizations; Natural resource management in India-DDP, DPAP, Integrated Wasteland Development Programme (IWDP), Social Forestry and Joint Forest Management

**Unit-IV**

Rural infrastructure- Rural Housing in India-progress and programmes; Rural Water Supply- National Rural Drinking Water Programme; Progress of rural electrification in India; Rural Roads in India; Rural technology; and telecommunication, Budgetary support for rural development programme-analysis of recent budget

**SUGGESTED READINGS:**

- Desai, Vasant (2018), Rural Development in India, Himalaya Publishing House, Mumbai
- Dwivedi, Amit Kumar (2012), Rural Entrepreneurship development in liberalized era, Bookwell publication
- Green, Gary Paul (2013), Handbook of Rural Development, Edward elgar Publishing, UK
- Hussain, Tahir et.al (2018), Fundamentals of rural development, I.K. International Publications, New Delhi
- Jodhka, Surender S (2018), A Handbook of Rural India, Orient black swan
- Kumaran, K.P (2017), Flagship programmes- impact, problems and challenges ahead, Academic Foundation, New Delhi
- Prasad, C.S (2009), Agriculture and rural development in India since 1947, New Century Publications, New Delhi
- Reddy, K, Venkata (2018), Agriculture and Rural Development, Himalaya Publishing House, Mumbai
- Roy Shovan (2012), Handbook of Indian Agriculture, Oxford University Press, New Delhi
- Roy, Debesh et.al (2018), Rural India Perspective 2017, Oxford India, New Delhi
- Satyanarayana, G and H.S, Madhusudna (2012), Rural Development and poverty alleviation in India, New Century Publications, New Delhi
- Saurabh, Shantanu (2017), Financial Inclusion and rural development, Bharti publications
- Singh, Katar & Anil Shisodiya (2016), Rural Development, Sage India, New Delhi

- Singh, Malvika (2017), Agricultural economy of India-current status and issues, New Century Publications, New Delhi
- Sahoo, Nirnjan (2018), Rural development and livelihoods in India, New Century Publications, New Delhi
- Sundram, I, Satya (2019), Rural Development, Himalaya Publications House, Mumbai
- Tyagi, B.P and H.P.Singh (2017), Agricultural economics and rural development, Jai PrakshNath and Co, Meerut
- Vyas, Vijay Shankar (2015), Mainstreaming the marginalized, Academic Foundation, New Delhi
- William, A. Thomas & A.J.Christopher (2011), Rural Development-Concept and recent approaches, Rawat Publications, Jaipur.

**M.A (ECONOMICS) SECOND SEMESTER  
ECONOMICS OF HUMAN RESOURCE DEVELOPMENT**

**ECO-211**

**Maximum Marks: 100**

**External Examination: 80**

**Time: 3 Hrs.**

**Internal Assessment: 20**

***Note: There shall be nine questions in all. Question no. 1 shall be compulsory, consisting of eight short answer type questions covering the entire syllabus. Two questions will be asked from each unit. Student will have to attempt one question from each unit. Each question shall carry equal marks.***

**UNIT- I**

**Introduction of Human Resource Development:** Human Development and Economic Development; Relevance of Human Resource Development in India; Human Resource Development in organizational perspective; Traditional and Modern approach to Human Resource Development; The Global Perspectives on human resource development; Emerging human resource management concepts in the New Millennium.

**UNIT- II**

**Human Capital:** Evolution of the Concept of Human Capital; investing in Human Capital: Becker's Model; Concept of 'On the Job training' and 'retraining'; Endogenous Growth: Role of Education, Research and Knowledge: Arrow, Romar and Lucas Model.

**UNIT- III**

**Gender and HRD:** Gender dimensions of development of HRD; Gender relations; Gender and Inequality; Gender disparities in education; occupation and earnings; Women's Empowerment and Economic Development; Gender Development Index and Human Development Index in India; Limitations of Human Development measure.

**UNIT -IV**

**Human Resource Development and Challenges:** Migration: Migration as Human Capital Investment, Rural Urban Migration (Harris-Todaro Model), Welfare Implications of International Migration; Emerging Challenges of Migration and Issue of Brain Drain; Economics of Discrimination- Concept, Types and Models of Discrimination (Becker, Crowding Model and Theory of Statistical Discrimination).

**SUGGESTED READINGS:**

- Campbell, R McConnell, Brue Stanley, L Macpherson David A. (2009), Contemporary Labor Economics, McGraw- Hill Book Company, New York.
- Mankin, David (2009), Human Resource Development, Oxford University Press.
- Schultz, Theodore W (1981), Investing in People: The Economics of Population Quality, Hindustan Publishing Corporation, (India), Delhi.
- Arun Monappa, (1997), Managing Human Resources, Macmillan India Limited, NewDelhi
- Batra V.P.(1998), The Economy and Human Resources, B.R. Publishing Corporation, Ansari Road, Darya Ganj, New Delhi.
- Lakshmanasamy T. and T.M. Srinivasan, (1997), Economics of Human Behaviour, Allied Publishers, New Delhi.
- Lallan Prasad & A.M. Bannerjee (1985), Management of Human Resources, Sterling Publishers Private Limited, New Delhi.
- Abusslesh Sharifi, India Human Development Report, Oxford.
- Chalam, K.S., Human development in South India, Anmol Pub.
- Human development in South Asia (2001), published for the Mahbubul Haq Human development Center, Oxford.
- Human Development Report for various years, UNDP.
- Human development Report, UNDP, 1990.
- National Human development Report; Government of India, 2002.

**M.A (ECONOMICS) SECOND SEMESTER  
ECONOMICS OF INSURANCE  
ECO-212**

**Maximum Marks: 100  
Time: 3 Hrs.**

**External Examination: 80  
Internal Assessment: 20**

*Note: There shall be nine questions in all. Question no. 1 shall be compulsory, consisting of eight short answer type questions covering the entire syllabus. Two questions will be asked from each unit. Student will have to attempt one question from each unit. Each question shall carry equal marks.*

**UNIT-I**

**Introduction:** Economic Security; Human quest for economic security through time, exposure to losses; Role of insurance; Risk pooling and risk transfer; Economic and legal perspectives; Social Vs Private insurance; Life Vs Non-life insurance; need for the general health insurance, pre-payments scheme, savings-linked insurance system.

**UNIT-II**

**Risk and Risk Management:** Fundamentals of uncertainty and risk; Pure risk and speculative risk; Expected utility and decision making under uncertainty; Expected utility and the demand for insurance; Moral hazards and insurance demand; Concept of risk management; Essentials of risk management; Elements of risk management, Risk assessment; Risk control and risk financing.

**UNIT-III**

**Insurance and Economic Development:** Risk management and insurance in economic development, Insurance institutions as financial intermediaries and investment; World Wide risk sharing - Concept of reinsurance, Fundamentals of reinsurance, Types of reinsurance; Reinsurance distribution systems; Reinsurance markets in Developing countries.

**UNIT-IV**

**Types of Insurance and Insurance Regulation:** Fundamentals of Life; Health and General Insurance; Functions and importance of Life, Health and General Insurance; Plans and legal aspects of life insurance; Provisions of policies, Selection and classification of risks; Types of evaluation; insurance regulation in India; Insurance Regulation and Development Authority (IRDA).

**SUGGESTED READINGS**

- Bailey R (Ed) (1999), Underwriting in Life and Insurance, LOMA, Atlanta, Ga.
- Bhargava, B .D (2008): Insurance: Meaning and Principles, Pearl Books, New Delhi
- Bhole, L.M. (1990) the Indian Financial System, Tata McGraw Hill, New Delhi.
- Bickelhaupt, D.L. (1992), General Insurance, Irwin. Inc. Burr Ridge.
- Black K.Jr. and H.D. Skipper Jr (2000), Life and Health Insurance, Prentice Hall, Upper Saddle River, New Jersey
- Finsinger, J, and MV. Pauly (Eds). (1986), the Economic of Insurance Regulation: A Cross National Study, Macmillan, London.
- Graver E.E and L.N.Hayes (Eds). (1994) Mc. Grill's Life insurance, the American College, Blyn Mawr Pa.
- Hedad, G.L. and S. Horn II (1991), Essentials of Risk Management, Vol.1, Insurance Institute of America, Malvern, Pa.
- Insurance Regulation and Development Authority (2001), IRDA Regulations, New Delhi.
- Shailender Kumar Hooda (2012), Health Insurance, Health Access and Financial Risk Protection, Economic and Political Weekly, Vol. 50, Issue 50.
- Skipper, Jr.H.D. (Ed) (1988). International Risk and Insurance: An Environmental Managerial Approach, Irwin Mc.Graw Hill, Boston.
- Tacchino, K.B. and D.A. Little (1993), Planning for Retirement Needs, The American College, Bryn Mawr, PA.

**M.A (ECONOMICS) SECOND SEMESTER  
INDUSTRIAL ECONOMICS –II  
ECO-213**

**Maximum Marks: 100**

**Time: 3 Hrs.**

**External Examination: 80**

**Internal Assessment: 20**

***Note: There shall be nine questions in all. Question no. 1 shall be compulsory, consisting of eight short answer type questions covering the entire syllabus. Two questions will be asked from each unit. Student will have to attempt one question from each unit. Each question shall carry equal marks.***

**Unit - I**

Major Classification of the Organized Industry – by Economic Activities, Type of Organization, Type of Ownership, Size of Employment, Size of Output and Net Value Added by States. Annual Survey of Industries – Scope and Coverage.

**Unit-II**

Industrial finance: Sources of short term and long term finance; Role, nature and types of institutional finance - IDBI, IFCI, SFCs, SIDC, commercial banks etc.

**Unit-III**

MNCs, transfer of technology; Liberalization and privatization; Industrial economic concentration and remedial measures.

**Unit-IV**

Industrial Labour: Structure of industrial labour, problems of industrial labour, labour reforms in India .Industrial legislation- Industrial disputes act, 1947and factory act, 1948. Industrial relations-worker's participation in management and collective bargaining; Exit Policy.

**SUGGESTED READINGS :**

- Ahluwalia, I.I. (1985), Industrial Growth in India, Oxford University Press, New Delhi.
- Barthwal, R.R. (2010), Industrial Economics, Wiley Eastern Ltd. New Delhi.
- Cherunilam, F. (1994) Industrial Economics: Indian Perspective (3rd Edition), Himalaya Publishing House, Mumbai.
- Desai, B. (1999) Industrial Economy in India (3rd Edition) Himalaya Publishing House Mumbai.
- Divine, P.J. and R.M. Jones et Al (1976), An Introduction to Industrial Economics, George Allen and Unwin Ltd., London.
- Government of India, Economic Survey (Annual)
- Hay, D. and D.J. Morris (1976) Industrial Economics: Theory and Evidence University Press, New Delhi.
- Kuchal S.C. (1980) Industrial Economy of India (5th Edition), Chaitanya Publishing House Allabad.
- Reserve Bank of India Report on currency and Finance (Annual).
- Singh, A. and A.N. Sadhu (1988), Industrial Economics, Himalaya Publishing House, Bombay.

**M.A (ECONOMICS) THIRD SEMESTER  
INDIAN ECONOMY-1  
ECO-301**

**Maximum Marks: 100**

**Time: 3 Hrs.**

**External Examination: 80**

**Internal Assessment: 20**

*Note: There shall be nine questions in all. Question no. 1 shall be compulsory, consisting of eight short answer type questions covering the entire syllabus. Two questions will be asked from each unit. Student will have to attempt one question from each unit. Each question shall carry equal marks.*

**Unit-I**

Features of Indian economy: Nature and Characteristics of Indian economy; Planning; objectives and strategies; failures and achievements of plans, Basic economic indicators-National income, performance of different sectors. Trends in prices and money supply

**Unit-II**

Institutional structure: Land-reforms in India; Agricultural marketing and warehousing; Issues in food security - policies for sustainable agriculture; Agricultural finance policy; Agricultural price policy.

**Unit-III**

Malthusian theory of population, optimum theory of population, theory of demographic transition, population as 'Limits to Growth' and as 'Ultimate Source' Concepts of Demography- Vital rates, life tables, composition and uses, Characteristics of Indian population through recent census.

**Unit-IV**

Financial Sector: Monetary policy of RBI; Money and Capital markets; Growth and problem; Performance of MUDRA Bank, Role of commercial banks in India; Banking sector reforms since 1991, Impact of Goods and Service Tax on Indian Economy.

**SUGGESTED READINGS:**

- Bardhan. P.K. (9th Edition) (1999), The Political Economy of Development in India, Oxford University Press, New Delhi. .
- Brahmanada, P.R. and V.R. Panchmukhi (Eds.) (2001), Development Experience in the Indian Economy: Inter-State Perspectives, Bookwell, Delhi.
- Datta R. and K.P.M. Sundhram (2003), Indian Economy, S. Chand & Company Ltd. New Delhi. Government of India, Economic Survey, (Annual), Ministry of Finance, New Delhi.
- Mishra, S.K and V.K Puri Indian Economy- 151 Development Experience, Himalaya Publishing House, Mumbai, Latest Edition.
- Todaro, P. Development Planning: Models and Methods. United Nations, Guidelines for Project Evaluation

**M.A (ECONOMICS) THIRD SEMESTER  
INTERNATIONAL ECONOMICS – I  
ECO-302**

**Maximum Marks: 100**

**Time: 3 Hrs.**

**External Examination: 80**

**Internal Assessment: 20**

***Note: There shall be nine questions in all. Question no. 1 shall be compulsory, consisting of eight short answer type questions covering the entire syllabus. Two questions will be asked from each unit. Student will have to attempt one question from each unit. Each question shall carry equal marks.***

**Unit - I**

**Evolution of trade and trade theories:** why do countries trade; Mercantilist's views; Absolute advantage; Ricardian comparative advantage; Heckscher-Ohlin-Samuelson (H-O-S) factor endowment based models; Factors intensity reversal; Empirics and Leontief paradox; New Approaches to trade theory: the Product Cycle and technology gap models.

**Unit-II**

**Economic Growth and International Trade:** Trade and growth; Concept and policy implications of immiserizing growth; Imperfect competition models; intra-industry trade and Economies of scale; Terms of trade: their uses and limitations; Hypothesis of secular deterioration of terms of trade and its policy implications for developing countries; Trade as an engine of economic growth.

**Unit-III**

**Theory of Interventions and international trade policy:** Free trade and protection; policy interventions in terms of tariffs (partial and general equilibrium analysis); their measurement and effective rate of protection; Non-tariff trade barriers; import quota; other non-tariff barriers and the new protectionism.

**Unit-IV**

**Regional trading agreements and the theory of customs union:** regionalism and multilateralism; Forms of economic integration; economic effects of FTAs/RTAs; Problems and prospects of forming a customs union in developing countries; emerging issues in EU and Brexit crisis; foreign trade multiplier.

**SUGGESTED READINGS**

- Acharya, R. (2014), International Economics: An introduction to theory and policy, Oxford University Press, New Delhi.
- R. N. Batra (1973), Studies in the Pure Theory of International Trade, Macmillan
- Bhagwati, J. (1968), Theory and Practice of Commercial Policy, Princeton University Press, New York.
- Chacholiades, M. (1990), International Trade: Theory and Policy, McGraw Hill, Kogakusha, Japan
- Cherunilam, F. (2008), International Economics, Tata McGraw- Hill Publishing Company Limited, New Delhi.
- Kenen, P.B. (1994), the International Economy, Cambridge University Press, London.
- Kindleberger, C.P. (1973), International Economics, R.D. Irwin, Homewood.
- King, P.G. (1995), International Economics and International Economic Policy: A Reader, McGraw Hill International, Singapore.
- Krufman, P.R. and M. Obstfeld (1994), International Economics: Theory and Policy, Glenview, Foresman.
- P. N. Roy (1986), International Trade Theory and Practice, Willy Eastern Limited, New Delhi.
- Salvatore Dominick (2004), International Economics, John Wiley and Sons, Singapore.
- Sodersten, B.O. and Geoffery, R. (1994). International Economics. McMillan, London.
- Krugman, P. and Maurice Obstfeld (2009), International Economics: Theory and Policy, Pearson Education Inc

**M.A (ECONOMICS) THIRD SEMESTER  
PUBLIC ECONOMICS – I  
ECO-303**

**Maximum Marks: 100  
Time: 3 Hrs.**

**External Examination: 80  
Internal Assessment: 20**

***Note: There shall be nine questions in all. Question no. 1 shall be compulsory, consisting of eight short answer type questions covering the entire syllabus. Two questions will be asked from each unit. Student will have to attempt one question from each unit. Each question shall carry equal marks.***

**Unit - I**

Role of public sector: concepts of private goods, public goods, pure public goods, mixed goods and merit goods; Need and rationale of public sector in India; Efficiency mechanism of public goods; Externalities, externalities and market failure, government mechanism to adjust externalities.

**Unit-II**

Public Expenditure: concept, and classification; effects of public expenditure on production, distribution, economic stability and on economic growth; General theories of public expenditure-Wagner's hypothesis, Peacock-Wiseman hypothesis, central -limit hypothesis; Principle of maximum social advantage.

**Unit-III**

Budget: Budget making process in India; Various concepts of Budget, zero based budgeting and performance budgeting; Various concepts of deficits, Fiscal deficit in India: trends and implication.

**Unit-IV**

Theory of Taxation: Canons of taxation; Classification of taxes: direct and indirect taxes, progressive, proportionate and regressive taxes, VAT vs GST; Incidence of direct and indirect taxation; shifting of taxation; taxable capacity, tax neutrality and equity.

**SUGGESTED READINGS:**

- Masgrave R.A. and Masgrave P.B., Public Economics in Theory and Practice, McGraw Hill.
- Stiglitz, J.E., Economics of Public Sector, J.W. Norton & Company.
- Singh, S.K, Public Finance in Theory and Practice, S. Chand & Co.
- Raja J. Chelliah, Towards Sustainable Growth, Essay in Fiscal and Financial Sector Reforms in India, Oxford University Press, Delhi, 1996.
- Deena Khatkhate (ed.), Money and Finance : Issue, Institutions, Policy, Sameeksha Trust, Orient Longman, 1998.
- Kunal Sen & Rajendera R. Vidya (ed.), Process of Financial Liberation in India, Oxford University Press, 1997.
- Mundel Sudipto (ed.) Public Finance : Policy Issue of India.
- Brown C.V. and Jackson P.M. (1990), Public Sector Economic, Basil Blackwell, Oxford.
- M. Govindia Rao and Tapan Sen (1998), Financial Federalism in India.
- Atkinson A.B. and Stiglitz, J.E. (1980), Lectures on Public Finance, Tata McGraw Hill.
- Aurrbach, A.J. and M. Feldstern (ed.) (1985), Handbook of Public Economics, Vol-I, North Holland, Amsterdam.
- Raghavendra Jha (1999), Modern Public Economics, Routledge, London.
- Srivaslava D.K. (ed.) (2000), Fiscal Federalism in India, Har-Anand Publication Ltd., New Delhi.



**M.A (ECONOMICS) THIRD SEMESTER  
CURRENT INDIAN ECONOMIC AFFAIRS  
ECO-304**

**Maximum Marks: 100  
Time: 3 Hrs.**

**External Examination: 80  
Internal Assessment: 20**

***Note: There shall be eight questions in all covering the entire syllabus. Students have to attempt any four questions. Each question shall carry 20 marks. Medium of paper setting and evaluation will be English and Hindi.***

Students are required to keep themselves updated on various aspects of Indian Economy such as Banking & Finance, Agriculture, Industry, International trade etc.. The topics will be introduced by the concerned teachers on various emerging aspects of the economy in the classrooms followed by general discussion on the same. The topics discussed by the concerned teacher in the class will be supplied to the examination branch for the purpose of paper setting. The question paper will be set as per the topics provided by the teacher concerned.

**SUGGESTED READINGS:**

The Economic times  
Financial Express  
Business Standard  
Economic and Political weekly  
Periodicals

**M.A (ECONOMICS) THIRD SEMESTER  
SEMINAR  
ECO- 306**

**Total Marks: 25  
Internal Marks: 25**

Students are required to prepare a presentation on any National Level Research Paper/Article, on the theme/topic such as review of research papers/articles published in national or internal journal or any other research based paper in his/her area of interest. Every candidate will have to deliver a seminar of 15-20 minutes duration on the assigned topic. The seminar will be delivered in the presence of students and teachers of the department on any fixed week day of the semester. The student shall consult the teacher concerned for the selection of topic for preparation of research paper/article to be presented.

The seminar will be evaluated by an internal committee of two internal teachers, constituted by the Chairperson of the Department. The evaluation (internal evaluation only) will be based on the presentation of the student, depth of subject matter of the topic and answer to questions. There will be a Coordinator to be nominated by the Chairperson of the Department among the teachers of the Department..

Distribution of marks will be as follows:

- |   |            |
|---|------------|
| 7. Presentation                                     | = 10 Marks |
| 8. Relevancy & Depth of subject matter of the topic | = 10 Marks |
| 9. Answers to the Questions                         | = 5 Marks  |

**M.A (ECONOMICS) THIRD SEMESTER  
SELF-STUDY PAPER  
ECO-307**

**Total Marks: 25  
Internal Marks: 25**

The objective of this course is to create habits of reading books and to develop writing skills in a manner of creativity and originality. The students will select a topic of their interest with consultation with their teachers/In charge/mentors. After selecting a suitable title for the paper, the student will be required to prepare a hand written report about 6-10 pages in his/her own handwriting. The student will be required to submit the report after getting it checked by the concerned teacher and will be asked to resubmit the report after making the required correction (s) if any before the commencement of the examination of that semester. The structure of the paper will include the following:

- Introduction
- Main Body
- Conclusion

The thoughts presented in the paper must be original work of the students.

The paper will be evaluated by the panel (one external and one internal examiner) to be appointed by the Chairperson of Department from the prescribed panel of the University.

The evaluation of Self Study paper will be done as given below:

- Evaluation of the paper    15 Marks
- Viva-voce on the paper    10 Marks
- Total                                25 Marks

**M.A (ECONOMICS) THIRD SEMESTER  
AGRICULTURAL ECONOMICS –I  
ECO-308**

**Maximum Marks: 100  
Time: 3 Hrs.**

**External Examination: 80  
Internal Assessment: 20**

*Note: There shall be nine questions in all. Question no. 1 shall be compulsory, consisting of eight short answer type questions covering the entire syllabus. Two questions will be asked from each unit. Student will have to attempt one question from each unit. Each question shall carry equal marks.*

**Unit - I**

Role of agriculture in Economic Development; Interdependence of agriculture and industry; Risk and uncertainty in agriculture, instability of agriculture- Cobweb model; Role of state in the development of agriculture;

**Unit - II**

Structure of agrarian system in the developing world; Approaches to Agricultural Development: Lewis, Jorgenson, Ranis-Fei, Boserup, Schultz and Mellor

**Unit-III**

Economics of Agriculture Production : The Production Function; Factor-Product Relationship; Factor-Factor Relationship; Product-Product Relationship; Agriculture and perfectness of resource allocation; Objective functions for family farms and their optimisation

**Unit-IV**

Supply response in agriculture; Farm Management- the Production Function Approach-cob-Douglas production function and farm-budgeting approach; Measures of farm efficiency

**SUGGESTED READINGS**

- Black, J.D (1945), Introduction to economics of agriculture, MacMillan, New York
- Bilgrami, S.A.R. (2010), Agricultural Economics, Himalaya Publishing House, Delhi.
- Colman, David and Trevor Young (1997), Principles of Agricultural Economics, Cambridge University Press, UK
- Cramer Gail, L & Krishna P Paudel (2019), Routledge handbook of agricultural economics, Routledge
- Debertin, David (2012), Agricultural Production Economics, Pearson Education, Second Edition
- Ester Boserup, *The Conditions of Agricultural Growth: The Economics of Agrarian Change under Population Pressure*. London, G. Allen and Unwin, 1965; Chicago: Aldine, 1965. 124 pp.
- Ghatak, S. and K. Ingerscent (1984), Agriculture and Economic Development, Select books, New Delhi.
- Hayami, Yujiro and Ruttan, Vernon w., Agricultural Development: An International Perspective, Baltimore and London 1971
- Drummond, H Evan and John W. Goodwin (2010), Agricultural Economics, Pearson Education
- Lekhi R.K. & Singh Joginder (2015), Agricultural Economics, Kalyani Publishers, New Delhi.
- Lewis, W. Arthur (1954). "Economic Development with Unlimited Supplies of Labor". [The Manchester School](#). 22 (2): 139–91
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- Mellor J.W.(1969), The Economics of Agricultural Development, Vhora & Co. Cornell University Press
- Penson J.B. Capps Oral, Rosson CP. (1996), Introduction to Agricultural Economics, Prentic-Hall, Inc.

- Sankhayan P.L. (2010), Introduction to the Economics of Agricultural Production, Prentice Hall of India Private Limited, New Delhi.
- Gupta, P.K (2012), Agricultural Economics, Vrinda Publications, New Delhi
- Ranis, G. and Fei (1961), 'A theory of economic development', American economic review, LI- 4
- Schultz, T. W. (1964). Transforming Traditional Agriculture, New Haven, CT, Yale University Press
- Soni, R.N. and Sangeeta Malhotra (2015), Leading Issues in Agricultural Economics, Vishal Publications ,Jalandhar
- S.S. Reddy et.al. (2015), Agricultural Economics, Oxford IBH
- Singh, Amarjit, A.N Sadhu and Jasbir Singh (2016), Fundamentals of Agricultural Economics, Himalaya Publishing House, Mumbai
- Subba Reddy (2009), Agricultural Economics, Oxford & IBH Publishing Co. Pvt. Ltd

**M.A (ECONOMICS) THIRD SEMESTER  
MANAGERIAL ECONOMICS-I  
ECO-309**

**Maximum Marks: 100  
Time: 3 Hrs.**

**External Examination: 80  
Internal Assessment: 20**

***Note: There shall be nine questions in all. Question no. 1 shall be compulsory, consisting of eight short answer type questions covering the entire syllabus. Two questions will be asked from each unit. Student will have to attempt one question from each unit. Each question shall carry equal marks.***

**Unit-I**

Meaning and nature of Managerial Economics; How does economics contribute to Managerial Functions, Business decisions and Economic analysis, the scope of Managerial Economics: Application of Micro Economics to operational issues, Applications of Macro Economics to Business environment.

**Unit-II**

Analysis of Market Demand: Meaning of Market Demand, Types of Demand, Determinants of market Demand, and Demand Elasticities: importance of the elasticity concept, Price elasticity of demand, measuring price elasticity from a Demand function Elasticity of Price Expectations, Price discrimination.

**Unit-III**

Demand forecasting: why demand forecasting, Techniques of demand forecasting survey methods: complete enumeration, sample survey and end-use methods, opinion poll methods: Expert-opinion method, Delphi method and market studies

**Unit-IV**

Cost and Break-even Analysis - Some Accounting and Analytical cost concepts; Economies and diseconomies of scale; Break-even Analysis: linear and non-linear cost and Revenue functions; Contribution Analysis, Profit Volume Ratio, Margin of Safety.

**SUGGESTED READINGS:**

- Haynes and Benry, Managerial Economics
- Baumol, Economic Theory and Operations Analysis Koutsoyiannis, Modern Micro Economics
- J. Dean, Managerial Economics
- Mote, Paul and Gupta, Managerial Economics
- Biarman & Smith, The Capital Budgeting Decisions. Varsghney and Maheswari, Managerial Economics

**M.A (ECONOMICS) THIRD SEMESTER  
MATHEMATICAL ECONOMICS-I  
ECO-310**

**Maximum Marks: 100**

**Time: 3 Hrs.**

**External Examination: 80**

**Internal Assessment: 20**

***Note: There shall be nine questions in all. Question no. 1 shall be compulsory, consisting of eight short answer type questions covering the entire syllabus. Two questions will be asked from each unit. Student will have to attempt one question from each unit. Each question shall carry equal marks.***

**Unit - I**

Types of utility functions -Cardinal and ordinal utility maximization, Slutsky equation- income; substitution and price effects; Consumer surplus; Elasticity of demand.

**Unit-II**

Theory of revealed preference and index numbers, Linear expenditure systems; Treatment of demand for durable goods, Empirical demand functions, Consumer behaviour under risk and uncertainty.

**Unit-III**

Production function; homogeneous and non- homogeneous; Laws of return & return to scale; Properties of Cobb-Douglas, CES and Translog production functions; Producers equilibrium;

**Unit-IV**

Behaviour of cost curves; Derivation of Cost functions from production function; Price and output determination with marginalist rule; Equilibrium of a price discriminating monopolist; Cournot model; Multi-plant model.

**SUGGESTED READINGS:**

- Allen, R.G.D. (1976), Mathematical Economics, Macmillan, London.
- Arrow, KJ and M. Intrilligator (Eds.) (1982), Handbook of Mathematical Approach, McGraw Hill, New Delhi.
- Chung, J.W. (1993), Utility and Production: Theory and Applications, Basil Blackwell, London.
- Ferguson, C.E. (1976), Neo-classical Theory of Production and Distribution.
- Henderon, J.M. and R.E. Quanete (1980), Microeconomic Theory.
- Koutsoyiannis, A. (1979), Modern Microeconomics, (2nd Edition), Macmillan Press, London. Mathematical Economics, Volumes I, II and III, North Holland, Amsterdam.

**M.A (ECONOMICS) THIRD SEMESTER  
ECONOMETRICS-I  
ECO-311**

**Maximum Marks: 100**

**Time: 3 Hrs.**

**External Examination: 80**

**Internal Assessment: 20**

***Note: There shall be nine questions in all. Question no. 1 shall be compulsory, consisting of eight short answer type questions covering the entire syllabus. Two questions will be asked from each unit. Student will have to attempt one question from each unit. Each question shall carry equal marks.***

**Unit-I**

Nature and meaning of econometrics, Difference between mathematical economics, statistics and econometrics; Goals of econometrics; classical linear regression model (Two variable), Sources of disturbance terms, assumption and their significance, least square estimators and their properties; Gauss-markov's theorem.

**Unit-II**

General linear regression model; Definition, assumptions, least - squares estimation, Gauss markov's theorem; testing of significance of regression coefficients, concepts of  $R^2$  and adjusted  $R^2$ .

**Unit-III**

Problem of multicollinearity, autocorrelation and heteroscedasticity : Nature, consequences, test and remedies (proofs not required)

**Unit-IV**

Simple Applications of Least Square: Estimation of consumption function, Cobb-Douglas and CES production functions, simple and compound rates of growth.

**SELECTED READINGS:**

- Gujarati D.N. (2013), Basic Econometrics (2nd Edition), McGraw Hill, New Delhi.
- Koutsoyiannis, A. (1997), Theory of Econometrics (2nd Edition), The Macmillan Press Ltd., London. Johnston, J. (1991), Econometric Methods, McGraw Hill Book Company, London.
- Maddala, G.S. (1993), Econometrics Methods and Applications, (2 Vol.) Alder Shot, U.K.
- Krishna K.L. (1997), Econometrics Application in India, Oxford University Press, New Delhi.
- Kmenta, J. (1997), Elements of Econometrics, University of Michigan Press, New York.
- Intriligator, M.D. (1978), Econometrics Techniques and Applications, Prentice Hall, New Jersey.
- Pindyck, R.S. and D.L. Rubinfeld (1976), Econometric Models and Economic Forecasts, McGraw Hill, Tokyo.
- Frances, P.H. (1998), Time Series Models/or Business and Economic Forecasting, Cambridge University Press, Cambridge.
- Harvey, A.C. (1981), Econometric Analysis of Time Series, Phillip Allen, London.
- Madnani, G.M.K. (2010), Introduction of Econometrics. Oxford IBH Publishing, New Delhi
- Intriligator, M.J. and Hsiao Badkin (1996), Econometric Models, Techniques and Applications, Prentice Hall.



**M.A (ECONOMICS) THIRD SEMESTER**  
**LABOUR ECONOMICS –I**  
**ECO-312**

**Maximum Marks: 100**  
**Time: 3 Hrs.**

**External Examination: 80**  
**Internal Assessment: 20**

***Note: There shall be nine questions in all. Question no. 1 shall be compulsory, consisting of eight short answer type questions covering the entire syllabus. Two questions will be asked from each unit. Student will have to attempt one question from each unit. Each question shall carry equal marks.***

**Unit-I**

Labour Economics: Nature, subject matter and scope; Labour demand and supply; labour market equilibrium; Frictions in the labour markets; labour market effects of international trade

**Unit-II**

Concept of minimum wage, fair wage and living wage; Methods of wage payment; Marginal productivity theory of wage, Bargaining theory of wages and modern theory of wage; Unions and labour markets

**Unit-III**

Definition and measurement of labour productivity; Factors affecting labour productivity; Causes of low productivity of labour in developing countries and measures to improve labour productivity; working conditions and hours of work; investment in human capital-education and training

**Unit-IV**

Meaning, types and causes of labour mobility; Barriers to labour mobility; Policy implications of labour mobility; Meaning and definition of discrimination; types and effects of discrimination; Gary Becker theory of labour market discrimination; Measures to reduce discrimination

**SUGGESTED READINGS**

- Bhagoliwal, T.N(2012), Economics of Labour and Industrial Relations: Sahitya Bhavan Agra
- Borjas, George (2012), Labor Economics, Macgraw Hill
- Chakraborty, Suman Kalyan (2018), Labour Economics, Himalaya Publishing House, Mumbai
- Ehrenberg, Ronald and Robert S Smith (2012). Modern Labor Economics, Prentice Hall
- Gupta, P.K (2012), Labour Economics, Vrida Publications, New Delhi
- Jhabvala, R. and R.K. Subrahmanya (Eds.) (2000), The Unorganised Sector: Work Security and Social Protection, Sage Publications, New Delhi.
- Lester, R.A. (1964), Economics of Labour, MacMillan, New York.
- Jain, J.N and Ajay Bhatia (2009), Modern Industrial Relations and Labour Law, Regal Publication
- Mamoria and Gankar (2000), Dynamics of Industrial Relations: Himalaya Publishing House, New Delhi
- McConnell, C.R. and S.L.Brue (1986), Contemporary Labour Economics, McGraw hill, New York
- Sinha, V.C (2015), Labour Economics and Industrial relations, SBPD Publications
- Smith, Stephen (2003), Labour Economics, Routledge, New York
- T.N. Bhagoliwal (2012), Economics of Labour and Industrial Relations: Sahitya Bhavan Agra
- Tyagi, B.P.(2009), Economics of Labour and Social Welfare, Sage Publication, New Delhi.

**M.A (ECONOMICS) THIRD SEMESTER**  
**ECONOMICS OF REGIONAL DEVELOPMENT AND PLANNING-I**  
**ECO-313**

**Maximum Marks: 100**  
**Time: 3 Hrs.**

**External Examination: 80**  
**Internal Assessment: 20**

*Note: There shall be nine questions in all. Question no. 1 shall be compulsory, consisting of eight short answer type questions covering the entire syllabus. Two questions will be asked from each unit. Student will have to attempt one question from each unit. Each question shall carry equal marks.*

**Unit-I**

Concept of region, regionalization, delineation of regions, Concept of backward or depressed region; selection of indicators and measures of regional disparities; Rationale of regional planning; levels of regional development and disparities; strategies for development

**Unit-II**

Regional Growth Theories: Friedman's core-periphery theory; Center-periphery model; polarisation and trickle-down effect theory of Hirschman; circular and cumulative causation model of Myrdal; growth pole theory of Perroux; convergence and divergence of disparities in per capita regional income.

**Unit-III**

Techniques of regional analysis – regional and inter-regional input – output analysis; attraction model; Gravity model; Shift Share analysis; Impact studies; Surveys for regional planning; Concept and functions; types of surveys; regional surveys, diagnostic surveys, techno-economic surveys.

**Unit-IV**

Regions for Planning: characteristics, hierarchy, need, and demarcation; Regional imbalance and the measures to reduce it, regional imbalance during plan periods, policy for balanced regional development; Consistency between national and regional objectives

**SUGGESTED READINGS:**

- Chandna, R.C. (2000): Regional Planning: A Comprehensive Text. Kalyani Publishers., New Delhi.
- Capello, Robertra (2016), Regional Economics, Routledge, London and New York
- Chaudhuri, J.R. (2001) : An Introduction to Development and Regional Planning with special reference to India. Orient Longman, Hyderabad.
- Friedmann, J. and Alonso, W. (ed.) (1973) : Regional Development and Planning. The MIT Press, Mass.
- Hoover, E.M. An Introduction to Regional Economics, Alfred. A. Knopf, New York
- Glasson, John : An Introduction to Regional Planning, Hutchinson Educational, London, 1974.
- Glasson, John and Marshall, Tim: Regional Planning Natural and built environment series, Routledge, 2007.
- K.Prasanna Mohanty (2019), Planning and economics of cities, Sage India
- Kuklinski, A.R. (1972): Growth Poles and Growth Centre in Regional Planning. Mouton and Co., Paris.
- Leys, C. (1996): The Rise and Fall of Development Theory. Indian University Press, Bloomington, and James Curry, Oxford.

- Macann, Philip (2013), Modern urban and regional economics, Oxford University Press, UK
- Mahapatra, A.C. and Pathak, C.R. (eds.) (2003): Economic liberalization and Regional Disparities in india. Special Focus on the North Eastern Region. Star Publishing House, Shillong.
- Mahesh Chand and V. K. Puri ; Regional Planning in India, Allied Publishers, New Delhi, 1983.
- Misra, R.P. (ed.) (1992) : Regional Planning: Concepts, Techniques, Policies and Case Studies. 2<sup>nd</sup> edition. Concept Publishing Company., New Delhi.
- Misra, R.P. and Natraj, V.K. (1978): Regional Planning and National Development. Vikas, New Delhi.
- Nath, V (2009), Regional development and planning in India, Concept Publication, New Delhi
- Srivastava, O.S (2006), Regional economics and Regional Planning, Anmol Publications, New Delhi
- Stimson, Robert, J Et.al (2006), Regional economic development, Springer
- Sundaram K V (1986) : Urban and Regional Planning in India, Vikas Publishing House, 1986, New Delhi

**M.A (ECONOMICS) THIRD SEMESTER  
ECONOMICS OF INFRASTRUCTURE-I  
ECO-314**

**Maximum Marks: 100**

**Time: 3 Hrs.**

**External Examination: 80**

**Internal Assessment: 20**

**Note:** *There shall be nine questions in all. Question no. 1 shall be compulsory, consisting of eight short answer type questions covering the entire syllabus. Two questions will be asked from each unit. Student will have to attempt one question from each unit. Each question shall carry equal marks.*

**Unit - I**

**Introduction:** Infrastructure and economic development; Physical & Social Infrastructure; Infrastructure as a public good; the peak load and off - load problem; Role of infrastructure in economic development; Issues & policies in financing of infrastructure; marginal cost pricing Vs other methods of pricing of public utilities; cross subsidization-free prices.

**Unit-II**

**Transport Economics:** The structure of transport costs and location of economic activities; Demand for transport- Models of Freight and passenger Demand; Pricing principles; Role of government in transport sector; Special problems of modes of transport in Indian context; transport policy and development in a changing environment.

**Unit-III**

**Energy Economics:** Forms of energy and its primacy in economic development; factors determining demand for energy; Energy ratios as indices of economic development; effects of energy shortages; energy conservation; renewable and non-conventional sources of energy, energy modeling; optimal energy policy.

**Unit-IV**

**Electricity, Gas and Water Supply:** Bulk supply and pricing of electricity; the relative economics of Thermal, Hydel and Nuclear power; The case for a national power grid; Financing of water utilities; urban and rural water supply; uses of natural gas; the exploitation of natural gas, pricing problem.

**SUGGESTED READINGS**

- Glaeser, Edward L.(1998) Are cities dying? Journal of economic perspectives, 12(1), 139-160.
- Mieszkowski, P., and Mills, E.S. (1993): The causes of metropolitan suburbanization, Journal of economic perspectives, 7(1), 135-147.
- Porter M.E. (1998): Clusters and the new economic competition, Harvard business review, 76 (6)
- Sivaramakrishnan, K.C., Kundu A. and Singh B.N. (2005): Handbook of urbanization in India. New Delhi: Oxford University Press
- Naik N.T.K and Mansoor S. R. (2007): Urbanisation of India. New Delhi, Eastern Book Corporation.
- Button K.J.(1993) :Transport Economics, UK, Edward Elgar
- Singh S. K. (2000): Technical characteristics and efficiency of the Indian state road transport undertakings?, Indian journal of transport management, 24(8): 533-543.
- Singh S. K. (2005): Review of urban transportation in India? Journal of public transportation, 8(1)
- Chaudhuri M.D. (1990): Market failure and government failure, Journal of Economic Perspectives, 4(3), 25-39
- National Council of Applied Economic Research (1996): India infrastructure report: policy implications for growth and welfare, New Delhi , NCAER
- Parikh, K.S. (Ed.) (1999): India development report - 1999-2000, New Delhi: Oxford
- Athreya M.B. (1996): India's telecommunication policy, telecommunication policy, 20(1): 11-22
- Sinha N. (1996): The political economy of India's telecom reforms, telecommunication policy, 20(1)
- Krautkraemer J., and M. Toman. (2003): Fundamental economics of depletable energy supply, resources for the future, discussion Paper 03-01.
- Palmer, K., and D. Bullaw., (2005):Cost-effectiveness of renewable electricity policies, energy economics 27: 873-894.
- Dash, L.N.(2007), Economics of Infrastructure: Growth and Development. Regal Publications (ISBN 818991711).

**M.A. (ECONOMICS) THIRD SEMESTER  
ECONOMICS OF GENDER AND DEVELOPMENT-I  
ECO-315**

**Maximum Marks: 100**

**Time: 3 Hrs.**

**External Examination: 80**

**Internal Assessment: 20**

***Note: There shall be nine questions in all. Question no. 1 shall be compulsory, consisting of eight short answer type questions covering the entire syllabus. Two questions will be asked from each unit. Student will have to attempt one question from each unit. Each question shall carry equal marks.***

**Unit-I**

Introduction to Gender Economics: Importance of gender Economics, Status of women in patriarchal and matriarchal societies and structures, Economic basis and functioning of patriarchy in developing Countries, particularly India. Decision making at household, community and state levels. Factors affecting decision making by women in India.

**Unit-II**

Demography of female population- Age structure, mortality rates, and sex ratio. Causes of declining sex ratios and fertility rates in LDCs, particularly India. Women and their access to nutrition, health, education and social and community resources, and its impact on female mortality and fertility.

**Unit-III**

Concept and analysis of women's work: Valuation of productive and unproductive work; visible and invisible work; paid and unpaid-work; economically productive and socially productive work. Supply and demand for women in labour in India; Studies of female work participation in agriculture, non-agricultural rural activities, informal sector, cottage and small-scale industries, organized industry and services sector. Factors affecting female entry in labour market.

**Unit-IV**

Gender budgeting and gender Issues in contemporary world. Gender awareness in planning. Budgeting policies to reduce disparity. Social and economic empowerment of women.

**SUGGESTED READINGS:**

- Boserup E. (1970), Women's Role in Economic Development, George Allen and Unwin, London.
- Desai, N. and M.K. Raj (Eds.) (1979), Women and Society in India, Research Center for Women Studies, SNDT University, Bombay
- Government of India (1974), Towards Equality – Report of the Committee on the Status of Women in India, Department of Social Welfare, Ministry of Education and Social Welfare, New Delhi.
- Krishnaraj, M., R.M. Sudarshan and A. Shariff (1999), Gender, Population and Development, Oxford University Press, New Delhi.
- Seth, M. (2000), Women and Development: The Indian Experience, Sage Publications, New Delhi.
- Srinivasan K. and A. Shariff (1998), India: Towards Population and Development Goals, Oxford University Press, New Delhi.
- Venkateswaran S. (1995), Environment, Development and the Gender Gap, Sage Publications, New Delhi.
- Wazir, R. (2000), The Gender Gap in Basic Education: NGOs as Change Agents, Sage Publications, New Delhi.

**M.A (ECONOMICS) THIRD SEMESTER  
FINANCIAL INSTITUTIONS AND MARKETS – I  
ECO-316**

**Maximum Marks: 100  
Time: 3 Hrs.**

**External Examination: 80  
Internal Assessment: 20**

***Note: There shall be nine questions in all. Question no. 1 shall be compulsory, consisting of eight short answer type questions covering the entire syllabus. Two questions will be asked from each unit. Student will have to attempt one question from each unit. Each question shall carry equal marks.***

**Unit – I**

Role and structure of financial system and Institutions; Formal and Informal Financial Sectors; Money and near-money Assets; financial inclusion; financial markets and financial intermediaries; Equilibrium in Financial Markets; Relationship between the Financial System and Economic Development: theoretical and empirical evidence.

**Unit-II**

Criteria to evaluate assets: concept and types of risk, Risk and financial assets, return or yield on assets, Risk - Return trade off; valuation of securities and bonds; Interest Rate Analysis and yield curve.

**Unit-III**

Theories of interest rate determination: Level of interest rates- Long period and Short period rates; Structure of Interest rates – Theories of the Term-structure of interest rates: Expectation theory, Segmentation theory; Prime lending rate; Administered interest rates - Appropriate interest rate policy.

**Unit-IV**

Banks and Non-Bank Financial Intermediaries; Central Bank: functions and techniques of monetary control; Recent policy developments in India; Commercial Banks; The aims and objectives of the monetary policy in developed and developing countries; recent issues on NPAs and implications in India

**SUGGESTED READINGS:**

- Pathak, Bharti V. (2010), the Indian Financial System Markets, Institutions and Services), Pearson Education
- Bhole, L.M. (2012), Financial Institutions and Markets, Tata McGraw Hill Company Ltd., New Delhi
- Edminster, R.O. (1986), Financial Institutions, Market and Management, McGraw Hill, New York.
- Goldsmith, R.W., (1969), Financial Structure and Development, Yale London.
- Gupta, S.B. (1983), Monetary Economics, S. Chand & Company, New Delhi.
- Hanson, J.A. and S. Kathuria (Eds.) (1999), India: A Financial Sector for the Twenty-first Century, Oxford University Press, New
- Johnson, H.J. (1993), Financial Institutions and Markets, McGraw Hill, New York.
- Karker, P.T. and S.A. Zenios (2000) (Ed.), Performance of Financial Institutions, Cambridge University Press, Cambridge.
- Khan M. Y. (1996) - Indian Financial Systems, Tata McGraw Hill, New Delhi.
- Machiraju, M.R. (1999), Indian Financial System, Vikash Publishing House, New Delhi.
- Ohlson, J.A. (1987), the theory of Financial Markets and Institutions, North Holland, Amsterdam.
- Prasad, K.N. (2001), Development of India's Financial System, Sarup & Sons, New Delhi.
- Robinson, R.I. and D. Wrightman (1981), Financial Markets, McGraw Hill, London
- Smith, P.F. (1978), Money and Financial Intermediation: The Theory and Structure of Financial System, prentice Hall, Englewood-Cliffs, New Jersey.

**M.A (ECONOMICS) THIRD SEMESTER  
COMPARATIVE ECONOMICS SYSTEMS-I  
ECO-317**

**Maximum Marks: 100**

**Time: 3 Hrs.**

**External Examination: 80**

**Internal Assessment: 20**

***Note: There shall be nine questions in all. Question no. 1 shall be compulsory, consisting of eight short answer type questions covering the entire syllabus. Two questions will be asked from each unit. Student will have to attempt one question from each unit. Each question shall carry equal marks.***

**Unit-I**

Classification of Economic Systems: Modes of production Social formations, Evolution of pre-capitalist economic systems-tribal, slavery, feudalism, Asiatic.

**Unit-II**

Evolution of Capitalism: Laissez-faire capitalism, Welfare capitalism, Regulated capitalism, Industrial Capitalism, Capitalism and Technological Progress, Achievements and failures of capitalism, Non-Marxian Critique, Marxist critique of capitalism, Challenges ahead;

**Unit-III**

Socialism, Pre-requisites, problems and processes of socialist transformation; Evolution of Socialism: Types of Socialism: Utopian Socialism, Marxian Socialism (Theory of Social Change), Market Socialism and decentralization, International economic relations between socialist and developing economies; breakdown of socialist system

**Unit-IV**

Other Alternatives-mixed economy, communitarian socialism, Gandhian, Scandinavian; Ecological sustainability and economic system: Issues and approaches-for developed countries and developing countries

**SUGGESTED READINGS**

- Leontief (1977): Political Economy. National Book Agency, Calcutta.
- C.H. Feistain (ed) (1967) : Socialism, Capitalism and Economic Growth, Cambridge University Press.
- Maurice Cornforth (1971): Dialectical Materialism, Vol. II, National Book agency, Calcutta.
- Maurice Dobb (1959): Studies in the Development of capitalism, Routledge & Kegan Paul Ltd., London
- Morris Bronstein (1965) : Comparative Economic systems, Richard D. Irwin, Inc. Illinois
- George N. Halm (1968): Economics Systems: A Comparative Analysis, Oxford & IBH Publishing Company, New Delhi.
- Alec Nove (1977): The Soviet Economic System. George Allen & Unwin Ltd. London.
- A.I.Lenkovsky (1972): Capitalism in India, People's Publishing House, New Delhi.
- Paul M. Sweezy (1991) : The Theory of Capitalist Development, K.P.Bagchi & Company ,Calcutta.
- Oskar Lange & F.M. Teylor (1976): On the Economic Theory of Socialism. Tata McGraw Hill Publishing Company, New Delhi.
- Oskar Lange (1965): Problems of Political Economy of Socialism, People's Publishing House, New Delhi.
- Schnizer Nordyke (1977) : Comparative Economic System, Southwestern Publishing Co., China.
- Desai, S.S.M., (1982), Economic Systems, Himalaya Publishing House, Bombay;
- Halm, George N., (1968), Economic Systems, Oxford & IBH Publishing Co., New Delhi
- Sen, K.K., (1994), Comparative Economics Systems, Sultan Chand & Sons, New Delhi
- Grossman, Gregory, (1978), Economic Systems, Prentice Hall, New Delhi.

**M.A (ECONOMICS) THIRD SEMESTER  
GENERAL EQUILIBRIUM AND WELFARE ECONOMICS  
ECO-318**

**Maximum Marks: 100**

**External Examination: 80**

**Time: 3 Hrs.**

**Internal Assessment: 20**

***Note: There shall be nine questions in all. Question no. 1 shall be compulsory, consisting of eight short answer type questions covering the entire syllabus. Two questions will be asked from each unit. Student will have to attempt one question from each unit. Each question shall carry equal marks.***

**Unit –I**

**Introductory Analysis:** Partial Equilibrium and General Equilibrium analysis; Inter-relationship amongst markets; General equilibrium in exchange and production; Edgeworth box; contract curve; Characteristics and assumptions of competitive General equilibrium; Walras' Law and its implications.

**Unit –II**

**Introductory Welfare Economics:** Concerns of welfare economics; value judgments in welfare economics; positive or normative; concept of social welfare; Assumption of Uniform Income; Utility Function of Individuals: Question of Income distribution; issue of Interpersonal comparisons of Utility; Marshallian welfare economics; consumer's surplus and tax-bounty analysis.

**Unit –III**

**Market Efficiency, Public Goods and Externalities:** public goods model; private financing of public good; free rider problem; the Wicksell – Lindahl tax system; fixed tax sharing and majority voting; the demand revealing tax scheme; Divergence between private and social costs; problems of non-market interdependent externalities of production and consumption; Coase theorem and liability rules.

**Unit –IV**

**Welfare criteria:** Pigovian welfare economics; The Pareto-optimality criterion; Compensation criteria– Contributions of Barone, Kaldor and Hicks; The Scitovsky double criterion; Bergson's Social welfare function; Rawls' theory of social justice; Arrow's Impossibility theorem.

**SUGGESTED READINGS:**

- Allan M Feldman and Serrano Roberto, Welfare economics and Social choice theory, Springer; 2nd ed. 2006 edition (23 December 2005)
- Arrow, K. J. (1951), Social choice and Individual Values, Yale University Press, New Haven
- Baumol, W. J. (Ed.) (2001), Welfare Economics, Edward Elgar Publishing Ltd. U.K.
- Boadway, R.W. and Neil, B. (1984), Welfare Economics, Basil Blackwell, Oxford.
- Dominick Salvatore, (2002) Microeconomics Theory and Applications, Oxford University February 2017)
- Florio Massimo, (2014), Applied welfare economics: Cost benefit analysis of projects and policies, Routledge, London and New York.
- Hicks, J.R. (1956), A Revision of Demand Theory, Clarendon Press, Oxford.
- Johansson(1991), An Introduction to Modern Welfare Economics, Cambridge University Press
- Koutsoyiannis (1997), Modern Microeconomics, Macmillan, London.
- Little, I.M.D. (1949), The Foundations of Welfare Economics, Oxford Economic Papers, Vol. 1.
- Little, I.M.D. (1958), A critique of Welfare Economics, Oxford University Press, Ltd., U. K.
- Luigino Bruni, Flavio Comim and Maurizio Pugno, p (Ed.) Capabilities and happiness, Macmillan; 2004 edition (19 December 2003)
- Myint, H. (1948), Welfare Economics, Macmillan, London.
- Nicholas, B. (Ed.) (2001), Economic Theory and the Welfare state, Edward Elgar Publishing Oxford University Press, Published in 2008 page no 16 – 27
- Pigou, A. C. (1962), The Economics of Welfare (4th Edition) Macmillan.
- Scitovsky, T. (1958), Welfare and Competition, George Allen and Unwin Ltd.
- Sen Amartya, Collective Choice and Social Welfare, Penguin; Expanded edition edition February 2017)
- Yew- Kwang Ng, (2004), Welfare Economics - Towards a more complete analysis, Palgrave Macmillan; 2004 edition (19 December 2003)



**M.A (ECONOMICS) THIRD SEMESTER**  
**ENVIRONMENTAL AND NATURAL RESOURCES ECONOMICS-I**  
**ECO-319**

**Maximum Marks: 100**

**External Examination: 80**

**Time: 3 Hrs.**

**Internal Assessment: 20**

***Note: There shall be nine questions in all. Question no. 1 shall be compulsory, consisting of eight short answer type questions covering the entire syllabus. Two questions will be asked from each unit. Student will have to attempt one question from each unit. Each question shall carry equal marks.***

**Unit-I**

Environment, economy and development; The Environmental Kuznets Curve; Environment and Development-Basis Issues; Concepts and indicators of Sustainable Development; Basic characteristics of environmental goods; Externalities and market failure in case of environmental goods; Internalizing externalities using Pigouvian approach; Coase's bargaining solution;

**Unit-II**

Measures of economic value of environment WTP and WTA; Revealed preference valuation methods-market pricing approach, replacement cost approach, hedonic pricing methods, household production function approach; State preference valuation methods-contingent method

**Unit-III**

Environmental accounting; Environmental regulations- Instruments for Pollution Control: Command and Control Policy and Market Based Instruments; Economic appraisal of environmental projects-Cost Benefit Analysis and environmental impact analysis

**Unit-IV**

Global environmental pollution-acid rain, ozone depletion and global warming- causes, consequences and international responses; fragile global commons; Trade and environment in the WTO regime; Policy options for global environment in Developing and Developed countries

**SUGGESTED READINGS**

- Aggarwal, S.K., Environmental and natural resources Economics (Scott Foresman & Co. London, 1985).
- Baumol, W.J. and W.E. Oates (1988), Theory of Environmental Policy, (2nd Edition), Cambridge University Press.
- Bhattacharyya, S.C.(2011). Energy Economics: Concepts, Issues, Markets and Governance. Springer-Verlag: London, UK.
- Charles, Kolstad (2010), Intermediate Environmental Economics, Oxford University Press
- Dahl, C.A. (2004). International Energy Markets: Understanding Pricing, Policies, and Profits. Penn Well Corporation: Tulsa, Oklahoma
- Hussen, Ahmed (2013), Principles of Environmental Economics and Sustainability, Routledge, London.
- Katar Singh and Anil Sisodia (2009) Environmental Economics, Sage Publications, New Delhi.
- Sankar, U. (Ed.) (2001), Environmental Economics, Oxford University Press, New Delhi.
- Sankaran (2008) Environmental Economics, Sterling Publishers, New Delhi.
- Sengupta, R.P. (2001), Ecology and Economics: An Approach to Sustainable Development, Oxford University Press, New Delhi.
- Permen, Roger, et.al. (2003), Natural resource and environmental economics, Pearson Education
- Peter and Gloria (2011), The Economics of The Environment, Prentice-Hall
- Thomas, Tietenbur. Environmental and Natural Resources Economics, Seventh Edition, Boston (2006).

**M.A (ECONOMICS) THIRD SEMESTER**  
**URBAN ECONOMICS-I**  
**ECO-320**

**Maximum Marks: 100**

**Time: 3 Hrs.**

**External Examination: 80**

**Internal Assessment: 20**

***Note: There shall be nine questions in all. Question no. 1 shall be compulsory, consisting of eight short answer type questions covering the entire syllabus. Two questions will be asked from each unit. Student will have to attempt one question from each unit. Each question shall carry equal marks.***

**Unit-I**

The concept and definition of urban and urbanisation.

Analytical and historical perspective of the origin and evolution of urban settlements.

**Unit-II**

Analytical and historical perspective of the patterns of urbanisation. Urban transition and the components of urban growth.

**Unit-III**

Economic development and urbanization: The role of urbanization in economic development;

Role of economic development in redistribution of population.

**Unit-IV**

Rural-urban relationship: theory of urban bias, terms of trade and resource flow; the over-urbanization debate.

**SUGGESTED READINGS:**

- O'Sullivan, A (2003) Urban Economics (3<sup>rd</sup> Edition.), IRWIN, London. (Chapters 1-4).
- Habitat, 1996, An Urbanizing World- Global Report on Human Settlements 1996, Oxford University Press: New York
- Richardson, H.W (1988) New Urban Economics, Dryden Press, Hinsdale
- Balchin, Paul N, Issac, David and Chen, Jean (2000) Urban Economics: a global perspective, Palgrave, New York.
- United Nations, Department of Economic and Social Affairs, Population Division (2015).
- World Urbanization Prospects: The 2014 Revision United Nations New York, 2015.
- Ratnoo, H.S. (2016) Migration of Labour in India: The Squatter Settlements of Delhi Routledge: Abingdon, Oxford.

**INDIRA GANDHI UNIVERSITY, MEERPUR, REWARI**

**DEPARTMENT OF ECONOMICS  
OPEN ELECTIVE PAPER**

(To be offered to students of other Departments of the University)

**THIRD SEMESTER  
ISSUES IN INDIAN ECONOMY  
ECO- 321**

**Maximum Marks: 100**

**Time: 3 Hrs.**

**External Examination: 80**

**Internal Assessment: 20**

**Note: The question paper shall have five units. Each of the first four units will contain two questions and the students shall be asked to attempt one question from each unit. Unit five shall contain eight short answer type questions without any internal choice, covering entire syllabus.**

**Unit-I**

Introduction of Indian Economy, Features of Indian economy; Nature and Characteristics of Indian economy.

**Unit-II**

Agriculture: Role and features of Indian agriculture; WTO and Indian agriculture, Poverty in India - Absolute and relative analysis of poverty.

**Unit-III**

Concepts of Demography- Vital rates, life tables, composition and uses. Measurement of fertility - Total fertility rate, gross and net reproduction rate - Age pyramids, Characteristics of Indian population through recent census.

**Unit-IV**

Monetary policy of RBI; Growth and problem; Role of commercial banks in India; Banking sector reforms since 1991

**SUGGESTED READINGS:**

- Bardhan. P.K. (9th Edition) (1999), The Political Economy of Development in India, Oxford University Press, New Delhi. .
- Brahmanada, P.R. and V.R. Panchmukhi (Eds.) (2001), Development Experience in the Indian Economy: Inter-State Perspectives, Bookwell, Delhi.
- Datta, R. and KP.M. Sundhram (2003), Indian Economy. S. Chand & Company Ltd. New Delhi. Government of India, Economic Survey, (Annual), Ministry of Finance, New Delhi.
- Mishra, S.K. and V.K. Puri Indian Economy- 151 Development Experience, Himalaya Publishing House, Mumbai, Latest Edition.
- Rudra Ashok, Indian Plan Models.
- Todaro, P. Development Planning: Models and Methods. United Nations, Guidelines for Project Evaluation. Sen, R.K. and B. Chatterjee (2001), Indian Economy: Agenda/or 21st Century:
- Dhar, P.K., Indian Economy - Its growing dimensions, Kalyani Publishers, New Delhi (Latest Edition) Mishra, S.K. and V.K. Puri Indian Economy - 1st Development Experience, Himalaya Publishing House, Mumbai, Latest Edition.
- Economic Surveys, Government of India, various issues.
- Reserve Bank of India, Report on Currency and Finance (Annual).

**INDIRA GANDHI UNIVERSITY, MEERPUR, REWARI**

**DEPARTMENT OF ECONOMICS  
OPEN ELECTIVE COURSE**

(To be offered to students of other Departments of the University)

**THIRD SEMESTER  
FOREIGN TRADE AND POLICY  
ECO-322**

**Maximum Marks: 100  
Time: 3 Hrs.**

**External Examination: 80  
Internal Assessment: 20**

**Note: The question paper shall have five units. Each of the first four units will contain two questions and the students shall be asked to attempt one question from each unit. Unit five shall contain eight short answer type questions without any internal choice, covering entire syllabus.**

**Unit-I**

India's foreign trade: recent changes in the composition and direction of India's foreign trade; recent policy changes and India's export and import (EXIM) policy.

**Unit-II**

Balance of Payments: Concept of balance of payments; BOP on Current Account and Capital Account; India's BOP crisis reserves position in the early 1990s and current developments; Devaluation.

**Unit-III**

FDI and FIIs: Sources of FDI; role of foreign direct investment and portfolio investment in India's economic development; Multi National Corporations (MNCs) and issues in the Emerging Scenario.

**Unit-IV**

Introduction of international organizations; WTO, IMF, World Bank; Impact of Globalization on Indian Economy; Brexit crisis

**SUGGESTED READINGS**

- Acharya, R. (2014), International Economics: An introduction to theory and policy, Oxford University Press, New Delhi.
- Chacholiades, M. (1990), International Trade: Theory and Policy, McGraw Hill, Kogakusha, Japan
- Cherunilam, F. (2008), International Economics, Tata McGraw- Hill Publishing Company Limited, New Delhi.
- Dhingra, I.C., (2017): March of the Indian Economy, Heed Publications Pvt. Ltd.,
- Dutt Ruddar and K.P.M Sundharam (2017), Indian Economy. S Chand & Co. Ltd. New Delhi.
- J. Bhagwati, A. Panagariya and T.N Srinivasan (1998), Lectures on International Trade, MIT Press, 1998.
- Karam Singh Gill, (1978): Evolution of the Indian Economy, NCERT, New Delhi
- Krugman, P. and Maurice Obstfeld (2009), International Economics: Theory and Policy, Pearson Education Inc
- Mishra S.K & V.K Puri (2017), Indian Economy and: It's Development Experience, Himalaya Publishing House.
- P. N. Roy (1986), International Trade Theory and Practice, Willy Eastern Limited, New Delhi.
- Salvatore Dominick (2004), International Economics, John Wiley and Sons, Singapore.
- Singh, Ramesh, (2016): Indian Economy, Tata-McGraw Hill Publications, New Delhi.

**INDIRA GANDHI UNIVERSITY, MEERPUR, REWARI**  
**DEPARTMENT OF ECONOMICS**  
**OPEN ELECTIVE PAPER**  
(To be offered to students of other Departments of the University)  
**THIRD SEMESTER**  
**ISSUES IN INDIAN AGRICULTURAL ECONOMY**  
**ECO-323**

Maximum Marks: 100

External Examination: 80

Time: 3 Hrs.

Internal Assessment: 20

***Note: There shall be nine questions in all. Question no. 1 shall be compulsory, consisting of eight short answer type questions covering the entire syllabus. Two questions will be asked from each unit. Student will have to attempt one question from each unit. Each question shall carry equal marks.***

**Unit - I**

Role of agriculture in Indian economy; Production and productivity of agriculture; Land Reforms in India; Green Revolution in India

**Unit-II**

Agricultural Price Policy in India; Agricultural Marketing system in India; Food security in India; Public Distribution System

**Unit-III**

Agricultural subsidies in India; Agricultural and rural credit; Problems of small and marginal farmers; Agricultural labour

**Unit-IV**

Diversification of Indian agriculture; Regional disparities in Indian agriculture; World Trade Organization and Indian Agriculture; Farmers' income in India

**SUGGESTED READINGS**

- Chand, Ramesh (2012), Development Policies and Agricultural Markets, Economic and Political Weekly, Vol. XLVII, No 52
- Dantwala, M.L et.al. (1991), Indian agriculture since independence, Oxford & IBH Publications, New Delhi
- Dev, S Mahendra (2010), Inclusive Growth in India: Agriculture, Poverty, and Human Development, Academic Foundation-New Delhi
- Lekhi R.K. & Singh Joginder (2015), Agricultural Economics, Kalyani Publishers, New Delhi.
- Munish Alaug (2012), Agricultural Prices in a Changing Economy: An Empirical Study of Indian Agriculture, Academic Foundation-New Delhi
- Puri, V.K and S.K Misra (2015), Indian Economy, Himalaya Publishing House, New Delhi
- Gupta, P.K (2012), Agricultural Economics, Vrinda Publications, New Delhi
- Roy, Debesh et.al (2018), Rural India Perspective 2017, Oxford University Press , New Delhi
- Ray, Shovan (2011), Handbook of Agriculture in India, Oxford University Press, New Delhi
- Singh, Amarjit, A.N Sadhu and Jasbir Singh (2016), Fundamentals of Agricultural Economics, Himalaya Publishing House, New Delhi
- Soni, R.N. and Sangeeta Malhotra (2015), Leading Issues in Agricultural Economics, Vishal Publications , Jalandhar
- Vaidyanathan (2009), Agricultural Growth in India: The Role of Technology, Incentives, and Institutions, Oxford University Press, New Delhi

**M.A (ECONOMICS) FOURTH SEMESTER  
INDIAN ECONOMY-II  
ECO-401**

**Maximum Marks: 100**

**Time: 3 Hrs.**

**External Examination: 80**

**Internal Assessment: 20**

***Note: There shall be nine questions in all. Question no. 1 shall be compulsory, consisting of eight short answer type questions covering the entire syllabus. Two questions will be asked from each unit. Student will have to attempt one question from each unit. Each question shall carry equal marks.***

**Unit -I**

Agriculture: Role and features of Indian agriculture; Technological change in agriculture; Trends in agricultural productions and productivity; WTO and Indian agriculture. Poverty in India Absolute and relative analysis of poverty

**Unit-II**

Industry: Growth and pattern of industrialization; New industrial policy and liberalization-impact on Indian economy; Public Sector enterprises - trends and performance; Small and cottage industries; issues of privatization. Unemployment and Migration in India, Demonetization and its effect on Indian Economy.

**Unit-III**

External sector: Structure and direction of foreign trade; Balance of payments; Issues in export-import policy and Objectives of BRICS and MNCs in India.

**Unit-IV**

Environment as necessity-amenity and public goods; causes of environmental and ecosystem degeneration-policies for controlling pollution-economic and persuasive; their relative effectiveness in LDCs; Relation between population, poverty and environment degradation micro- planning for environment and eco-preservation-water sheds, joint forest management and Self-help groups

**SUGGESTED READINGS:**

- Sen, R.K. and B. Chatterjee (2001), Indian Economy: Agenda/or 21st Century:
- Dhar, P.K., Indian Economy - Its growing dimensions, Kalyani Publishers, New Delhi (Latest Edition)
- Mishra, S.K. and V.K. Puri Indian Economy - 1st Development Experience, Himalaya Publishing House, Mumbai, Latest Edition.
- Economic Surveys, Government of India, various issues.
- Reserve Bank of India, Report on Currency and Finance (Annual)

**M.A (ECONOMICS) FOURTH SEMESTER  
INTERNATIONAL ECONOMICS – II  
ECO-402**

**Maximum Marks: 100  
Time: 3 Hrs.**

**External Examination: 80  
Internal Assessment: 20**

*Note: There shall be nine questions in all. Question no. 1 shall be compulsory, consisting of eight short answer type questions covering the entire syllabus. Two questions will be asked from each unit. Student will have to attempt one question from each unit. Each question shall carry equal marks.*

**Unit – I**

**The balance of payments and Adjustments:** Fixed and flexible exchange rate; Effects of Devaluation; a critical review of the Elasticity and Absorption Approach; J-Curve effect; the process of adjustment under system of gold standard; Purchasing power parity.

**Unit-II**

**Open Economy Adjustment Policies:** Internal and external balance; the Swan model; the assignment problem-Mundellian model of monetary-fiscal policies; Expenditure Switching and changing policies; Combining monetary and fiscal policies.

**Unit-III**

**International Monetary System:** Gold standard and Bretton Woods regime and Post-Bretton Woods arrangement; current role of IMF and World Bank; Special Drawing Rights (SDRs); Globalization: Discontents and Issues for Developing Countries.

**Unit-IV**

**Trade policies and resource movements:** India's foreign trade; recent changes in the direction and composition of trade and their implications; recent trade policies in India; Rationale and impact of trade reforms since 1991; Working and regulations of MNCs in developing countries; Motives and effects of international capital flows: issues and growth in India.

**SUGGESTED READINGS**

- Acharya, R. (2014), International Economics: An introduction to theory and policy, Oxford University Press, New Delhi.
- Bhagwati, J. (1968), Theory and Practice of Commercial Policy, Princeton University Press, New York.
- Bhatia, S.K. (2017), Brexit and India: Analyzing the Implication (Eds.). New Delhi Publishers.
- Chacholiades, M. (1990), International Trade: Theory and Policy, McGraw Hill, Kogakusha, Japan
- Cherunilam, F. (2008), International Economics, Tata McGraw- Hill Publishing Company Limited, New Delhi.
- Kenen, P.B. (1994), the International Economy, Cambridge University Press, London.
- Kindleberger, C.P. (1973), International Economics, R.D. Irwin, Homewood.
- King, P.G. (1995), International Economics and International Economic Policy: A Reader, McGraw Hill International, Singapore.
- Krufman, P.R. and M. Obstfeld (1994), International Economics: Theory and Policy, Glenview, Foresman.
- P. N. Roy (1986), International Trade Theory and Practice, Willy Eastern Limited, New Delhi.
- R. N. Batra (1973), Studies in the Pure Theory of International Trade, Macmillan
- Salvatore Dominick (2004), International Economics, John Wiley and Sons, Singapore.
- Sodersten, B.O. and Geoffery, R. (1994). International Economics. McMillan, London.
- Krugman, P. and Maurice Obstfeld (2009), International Economics: Theory and Policy, Pearson Education Inc

**M.A (ECONOMICS) FOURTH SEMESTER  
PUBLIC ECONOMICS-II  
ECO-403**

**Maximum Marks: 100  
Time: 3 Hrs.**

**External Examination: 80  
Internal Assessment: 20**

***Note: There shall be nine questions in all. Question no. 1 shall be compulsory, consisting of eight short answer type questions covering the entire syllabus. Two questions will be asked from each unit. Student will have to attempt one question from each unit. Each question shall carry equal marks.***

**Unit - I**

Fiscal Federalism in India, vertical and horizontal imbalances, Allocation of revenue resources between center and states- constitutional provisions; Centre-State financial relations in India; Finance Commissions-Report of the latest Finance Commission in India.

**Unit-II**

Public debt: Concept of public debt; characteristics of Indian public debt, Burden of internal and external public debt, Role of public debt in underdeveloped countries, Public Debt Management System.

**Unit-III**

Taxation System in India: Features of Indian taxation system, shortcoming in tax structure, measures of improvement, Tax evasion and tax avoidance in India- Distinction between tax evasion and tax avoidance, causes of tax avoidance, methods to check tax avoidance.

**Unit-IV**

Fiscal and budgetary policy: Economic, fiscal and budgetary policy, objectives of budgetary policy, Fiscal Policy: Instruments of fiscal policy; fiscal policy for stabilization-automatic vs. discretionary stabilization; Discussion on latest Union budget.

**SUGGESTED READINGS:**

- Lekhi, R.K. and Singh, J. (2018). Public Economics, Kalyani Publication, New Delhi.
- Masgrave R.A. and Masgrave P.B. (2005). Public Economics in Theory and Practice, McGraw Hill.
- Stiglitz, J.E., Economics of Public Sector, J.W. Norton & Company.
- Singh, S.K, (2018). Public Finance in Theory and Practice, S. Chand & Co.
- Raja J. Chelliah (1996). Towards Sustainable Growth, Essay in Fiscal and Financial Sector Reforms in India, Oxford University Press, Delhi.
- Deena Khatkhate (ed).(1998). Money and Finance: Issue, Institutions, Policy, Sameeksha Trust, Orient Longman, 1998.
- Kunal Sen & Rajendra R. Vidya (ed.)(1997)., Process of Financial Liberation in India, Oxford University Press.
- Mundel Sudipto (ed.) Public Finance: Policy Issue of India.
- Brown C.V. and Jackson P.M. (1990), Public Sector Economic, Basil Blackwell, Oxford.
- M. Govindia Rao and Tapan Sen (1998), Financial Federalism in India.
- Atkinson A.B. and Stiglitz, J.E. (1980), Lectures on Public Finance, Tata McGraw Hill.
- Aurrbach, A.J. and M. Feldstern (ed.) (1985), Handbook of Public Economics, Vol-I, North Holland, Amsterdam.
- Raghabendra Jha (1999), Modern Public Economics, Routledge, London.
- Srivastava D.K. (ed.) (2000), Fiscal Federalism in India, Har-Anand Publication Ltd., New Delhi.



**M.A (ECONOMICS) FIRST SEMESTER  
CURRENT INDIAN ECONOMIC AFFAIRS  
ECO-404**

**Maximum Marks: 100  
Time: 3 Hrs.**

**External Examination: 80  
Internal Assessment: 20**

***Note: There shall be eight questions in all covering the entire syllabus. Students have to attempt any four questions. Each question shall carry 20 marks. Medium of paper setting and evaluation will be English and Hindi.***

Students are required to keep themselves updated on various aspects of Indian Economy such as Banking & Finance, Agriculture, Industry, International trade etc. The topics will be introduced by the concerned teachers on various emerging aspects of the economy in the classrooms followed by general discussion on the same. The topics discussed by the concerned teacher in the class will be supplied to the examination branch for the purpose of paper setting. The question paper will be set as per the topics provided by the teacher concerned.

**SUGGESTED READINGS:**

The Economic times  
Financial Express  
Business Standard  
Economic and Political weekly  
Periodicals

**M.A (ECONOMICS) FOURTH SEMSTER  
SEMINAR  
ECO-405**

**Total Marks: 25  
Internal Marks: 25**

Students are required to prepare a presentation on any Foreign Research Paper/Article, on the theme/topic such as review of research papers/articles published in national or internal journal or any other research based paper in his/her area of interest. Every candidate will have to deliver a seminar of 15-20 minutes duration on the assigned topic. The seminar will be delivered in the presence of students and teachers of the department on any fixed week day of the semester. The student shall consult the teacher concerned for the selection of topic for preparation of research paper/article to be presented.

The seminar will be evaluated by an internal committee of two internal teachers, constituted by the Chairperson of the Department. The evaluation (internal evaluation only) will be based on the presentation of the student, depth of subject matter of the topic and answer to questions. There will be a Coordinator to be nominated by the Chairperson of the Department among the teachers of the Department..

Distribution of marks will be as follows:

- |  |            |
|--|------------|
| 10. Presentation                                     | = 10 Marks |
| 11. Relevancy & Depth of subject matter of the topic | = 10 Marks |
| 12. Answers to the Questions                         | = 5 Marks  |

**M.A (ECONOMICS) FOURTH SEMESTER  
SELF-STUDY PAPER  
ECO-406**

**Total Marks: 25**  
**Internal Marks: 25**

The objective of this course is to create habits of reading books and to develop writing skills in a manner of creativity and originality. The students will select a topic of their interest with consultation with their teachers/In charge/mentors. After selecting a suitable title for the paper, the student will be required to prepare a hand written report about 6-10 pages in his/her own handwriting. The student will be required to submit the report after getting it checked by the concerned teacher and will be asked to resubmit the report after making the required correction (s) if any before the commencement of the examination of that semester. The structure of the paper will include the following:

- Introduction
- Main Body
- Conclusion

The thoughts presented in the paper must be original work of the students.

The paper will be evaluated by the panel (one external and one internal examiner) to be appointed by the Chairperson of Department from the prescribed panel of the University.

The evaluation of Self Study paper will be done as given below:

- Evaluation of the paper    15 Marks
- Viva-voce on the paper    10 Marks
- Total                                25 Marks

**M.A (ECONOMICS) FOURTH SEMESTER  
AGRICULTURAL ECONOMICS –II  
ECO-407**

**Maximum Marks: 100  
Time: 3 Hrs.**

**External Examination: 80  
Internal Assessment: 20**

*Note: There shall be nine questions in all. Question no. 1 shall be compulsory, consisting of eight short answer type questions covering the entire syllabus. Two questions will be asked from each unit. Student will have to attempt one question from each unit. Each question shall carry equal marks.*

**Unit - I**

Role of agriculture in Indian economy; Trends in agricultural production and productivity; Land Reforms in India; Regional disparities in Indian agriculture; Green Revolution in India; Mechanization of Indian agriculture

**Unit-II**

Agricultural Price Policy in India; Agricultural Marketing system in India; Conditions and problems of agricultural labour in India; Food security and Public Distribution System

**Unit-III**

Agricultural subsidies in India; Public and private investment in agriculture sector; Situation of agricultural and rural credit, indebtedness among farmers; Problems of small and marginal farmers

**Unit-IV**

Farm size and productivity debate; Diversification of Indian agriculture; New Economic Policy and Indian Agriculture; World Trade Organization and Indian Agriculture; Farmers' income in India

**SUGGESTED READINGS**

- Chand, Ramesh (2012), Development Policies and Agricultural Markets, Economic and Political Weekly, Vol. XLVII, No 52
- Chand, Ramesh et.al, (2011), Farm Size and Productivity: Understanding the strength of small holders and improving their livelihoods, Economic and Political Weekly, Vol. XLVI, No 26 and 27
- Dantwala, M.L et.al. (1991), Indian agriculture since independence, Oxford & IBH Publications, New Delhi
- Dev, S Mahendra (2010), Inclusive Growth in India: Agriculture, Poverty, and Human Development, Academic Foundation-New Delhi
- Lekhi R.K. & Singh Joginder (2015), Agricultural Economics, Kalyani Publishers, New Delhi.
- Mander, Harsh (2013), Reviving Land reforms? Economic and Political Weekly, Vol XLVIII (35)
- Munish Alaugh (2012), Agricultural Prices in a Changing Economy: An Empirical Study of Indian Agriculture, Academic Foundation-New Delhi
- Puri, V.K and S.K Misra (2015), Indian Economy, Himalaya Publishing House, New Delhi
- Gupta, P.K (2012), Agricultural Economics, Vrinda Publications, New Delhi
- Roy, Debesh et.al (2018), Rural India Perspective 2017, Oxford University Press , New Delhi
- Ray, Shovan (2011), Handbook of Agriculture in India, Oxford University Press, New Delhi
- Singh, Amarjit, A.N Sadhu and Jasbir Singh (2016), Fundamentals of Agricultural Economics, Himalaya Publishing House, New Delhi
- Singh , Gajendra (2015), Agricultural Mechanisation Development in India, Indian Journal of Agricultural Economics Vol 70 (1)
- Soni, R.N. and Sangeeta Malhotra (2015), Leading Issues in Agricultural Economics, Vishal Publications , Jalandhar
- Vaidyanathan (2009), Agricultural Growth in India: The Role of Technology, Incentives, and Institutions, Oxford University Press, New Delhi

**M.A (ECONOMICS) FOURTH SEMESTER  
MANAGERIAL ECONOMICS-II  
ECO-408**

**Maximum Marks: 100**

**Time: 3 Hrs.**

**External Examination: 80**

**Internal Assessment: 20**

*Note: There shall be nine questions in all. Question no. 1 shall be compulsory, consisting of eight short answer type questions covering the entire syllabus. Two questions will be asked from each unit. Student will have to attempt one question from each unit. Each question shall carry equal marks.*

**Unit-I**

Alternative Theories of Firm - Baumol's Theory of Sales Revenue maximization, Baumol's Model without Advertising, Marris's Theory of maximization of Growth Rate; Maximization of Managerial utility function: William son's Model.

**Unit-II**

Pricing Strategies and Practices-Cost-plus pricing - mark-up pricing and Marginalist Rule, Multiple Product Pricing, Pricing in life-cycle of a product, Pricing in Relation of Established products, Transfer Pricing, Competitive Bidding of price and Peak Load Pricing.

**Unit-III**

Capital Budgeting and investment under certainty - pre-requisition of Capital Budgeting, Determining the optimum-level of Capital, Investment Decisions under certainty – Pay-back Period Method, Net Present Value Method, internal rate of return criteria source and cost of capital.

**Unit-IV**

Government and Market Economy: Need for Government intervention in a market economy, imperfections and failures of market mechanism, market failure characteristics and the role of Government, Tools of intervention, and Rethinking on the role of Government under Globalisation and Privatization.

**SUGGESTED READINGS:**

- Haynes and Benry, Managerial Economics
- Baumol, Economic Theory and Operations Analysis
- Koutsoyiannis, Modern Micro Economics
- J. Dean, Managerial Economics
- Mote, Paul and Gupta, Managerial Economics
- Biarman & Smith, The Capital Budgeting Decisions.
- Varsghney and Maheswari, Managerial Economics

**M.A (ECONOMICS) FOURTH SEMESTER  
MATHEMATICAL ECONOMICS –II  
ECO-409**

**Maximum Marks: 100**

**Time: 3 Hrs.**

**External Examination: 80**

**Internal Assessment: 20**

***Note: There shall be nine questions in all. Question no. 1 shall be compulsory, consisting of eight short answer type questions covering the entire syllabus. Two questions will be asked from each unit. Student will have to attempt one question from each unit. Each question shall carry equal marks.***

**Unit - I**

Constrained optimization of a producer, Generalization of n variable case; input demand function; Adding up theorem; Technical progress through production function; Analysis of joint profit maximization and multiproduct firm; Production possibility curve; Empirical uses of production function analysis.

**Unit-II**

Price determination in perfect competition, monopoly, monopolistic competition, duopoly, oligopoly; Pricing of factors of production; Bilateral monopoly.

**Unit-III**

Partial and general market equilibrium model: Single market equilibrium - Marshallian and Walrasian equilibrium conditions; Lagged market equilibrium : Multimarket equilibrium system of Walras; National income models (closed and open economy model); Leontief input-output models.

**Unit-IV**

Classical and Keynes' macro system; Static and dynamic multiplier; Determinants of investment; Accelerator; trade cycle model of Samuelson and Hicks; Harrod problem; Neoclassical model of growth; Solow and Meade growth models with technical progress; Optimal growth; and golden rule of accumulation.

**SUGGESTED READINGS:**

- Allen, R.G.D. (1976), Mathematical Economics, Macmillan, London.
- Arrow, KJ and M. Intrilligator (Eds.) (1982), Handbook of Mathematical Approach, McGraw Hill, New Delhi.
- Chung, J.W. (1993), Utility and Production: Theory and Applications, Basil Blackwell, London.
- **Ferguson**, C.E. (1976), Neo-classical Theory of Production and Distribution. Henderon,
- J.M. and R.E. Quanete (1980), Microeconomic Theory.
- Koutsoyiannis, A. (1979), Modern Microeconomics, (2nd Edition), Macmillan Press, London.
- Mathematical Economics, Volumes I, II and III, North Holland, Amsterdam.

**M.A (ECONOMICS) FOURTH SEMESTER  
ECONOMETRICS-II  
ECO-410**

**Maximum Marks: 100**

**Time: 3 Hrs.**

**External Examination: 80**

**Internal Assessment: 20**

*Note: There shall be nine questions in all. Question no. 1 shall be compulsory, consisting of eight short answer type questions covering the entire syllabus. Two questions will be asked from each unit. Student will have to attempt one question from each unit. Each question shall carry equal marks.*

**Unit - I**

Dynamic Econometric Models : Autoregressive and distributed lag models - Koyck Model, Adaptive expectation and Partial Adjustment approaches for rationalization of Koyck models, Estimation of Autoregressive models, Granger causality and exogeneity.

**Unit-II**

Dummy variable Regression Models: The Nature of Dummy variable, caution in the use of Dummy variables, The use of Dummy variables in seasonal analysis and Interaction Effects. ANOVA MODELS with two qualitative variables, ANCOVA MODELS.

**Unit-III**

Simultaneous equations model: The simultaneous equation bias and inconsistency of OLS estimators; The identification problem; Rules of identification- order and rank conditions (statement only), Methods of estimating simultaneous equation system: Indirect Least squares (ILS), 2 SLS (Two stage least squares).

**Unit-IV**

Time series Econometrics: Key concepts - stochastic process; stationary and non-stationary process, purely random process, Random walk models co-integration, integrated variables, Techniques of Forecasting: ARIMA MODELS, Box - Jenkin Methodology.

**SELECTED READINGS:**

- Gujarati D.N. (2013), Basic Econometrics (2nd Edition), McGraw Hill, New Delhi.
- Koutsoyiannis, A. (1997), Theory of Econometrics (2nd Edition), The Macmillan Press Ltd., London. Johnston, J. (1991), Econometric Methods, McGraw Hill Book Company, London.
- Maddala, G.S. (1993), Econometrics Methods and Applications, (2 Vol.) Alder Shot, U.K.
- Krishna K.L. (1997), Econometrics Application in India, Oxford University Press, New Delhi.
- Kmenta, J. (1997), Elements of Econometrics, University of Michigan Press, New York.
- Intriligator, M.D. (1978), Econometrics Techniques and Applications, Prentice Hall, New Jersey.
- Pindyck, R.S. and D.L. Rubinfeld (1976), Econometric Models and Economic Forecasts, McGraw Hill, Tokyo. Frances, P.H. (1998), Time Series Models/or Business and Economic Forecasting, Cambridge University Press, Cambridge.
- Harvey, A.C. (1981), Econometric Analysis of Time Series, Phillip Allen, London.
- Madnani, G.M.K. (2010), Introduction of Econometrics. Oxford IBH Publishing, New Delhi
- Intriligator, M.J. and HsiaoBadkin (1996), Econometric Models, Techniques and Applications, Prentice Hall.

**M.A (ECONOMICS) FOURTH SEMESTER  
LABOUR ECONOMICS –II  
ECO-411**

**Maximum Marks: 100**

**Time: 3 Hrs.**

**External Examination: 80**

**Internal Assessment: 20**

***Note: There shall be nine questions in all. Question no. 1 shall be compulsory, consisting of eight short answer type questions covering the entire syllabus. Two questions will be asked from each unit. Student will have to attempt one question from each unit. Each question shall carry equal marks.***

**Unit-I**

Characteristics of Indian labour markets; growth of labour force in India; labour migration in India; Structure and trends of unemployment in India; Unorganised sector and informal economy in India

**Unit-II**

Characteristics and problems and policies for agricultural labour in India; Minimum wage Act in agriculture, Recommendations of National Commission on Rural Labour; Rural labour markets and agriculture in India; MGNREGS and labour issues

**Unit-III**

Problems of child labour in India; Women labour and discrimination; Labour market reforms in India; Second National Commission on Labour; Economic reforms and labour in India; Labour turnover in India; bonus and profit sharing

**Unit-IV**

Industrial relations and disputes in India; trade unions movement; Labour legislation in India-industrial dispute Act, Factory Act, Contract labour Act; Review and appraisal of policies with respect to social security and labour welfare in India

**SUGGESTED READINGS**

- Bhagoliwal, T.N(2012), Economics of Labour and Industrial Relations: Sahitya Bhavan Agra
- Borjas, George (2012), Labor Economics, Macgraw Hill
- Chand, Ramesh, S K Srivastava (2014), Changes in the Rural Labour Market and Their Implications for Agriculture Economic and Political Weekly, Vol. LXIX (10)
- Dutt Gaurav & Ashwani Mahajan (2018), Indian Economy, S.Chand Publications, New Delhi
- Gupta, P.K (2012), Labour Economics, Vrida Publications, New Delhi
- Jhabvala, R. and R.K. Subrahmanya (Eds.) (2000), The Unorganised Sector: Work Security and Social Protection, Sage Publications, New Delhi.
- Misra and Puri (2018), Indian Economy, Himalaya Publications House, Mumbai
- Ramaswami, K.V (2015), Labour, employment and economic growth in India, Cambridge University Press, New Delhi
- Lester, R.A. (1964), Economics of Labour, MacMillan, New York.
- Mamoria and Gankar (2000), Dynamics of Industrial Relations: Himalaya Publishing House, New Delhi
- McConnell, C.R. and S.L.Brue (1986), Contemporary Labour Economics, McGraw hill, New York
- Misra, S.K & V.K.Puri (2018), Indian Economy, Himalaya Publications, New Delhi
- Sinha, V.C (2015), Labour Economics and Industrial relations, SBPD Publications
- Jain, J.N and Ajay Bhatia (2009), Modern Industrial Relations and Labour Law, Regal Publication
- Smith, Stephen (2003), Labour Economics, Routledge, New York
- T.N.Bhagoliwal (2012), Economics of Labour and Industrial Relations: Sahitya Bhavan Agra
- Tyagi, B.P.(2013), Labour Economics and Social Welfare, Jai Prakash Nath and Co, Meerut



**M.A (ECONOMICS) FOURTH SEMESTER**  
**ECONOMICS OF REGIONAL DEVELOPMENT AND PLANNING -II**  
**ECO-412**

**Maximum Marks: 100**

**Time: 3 Hrs.**

**External Examination: 80**

**Internal Assessment: 20**

***Note: There shall be nine questions in all. Question no. 1 shall be compulsory, consisting of eight short answer type questions covering the entire syllabus. Two questions will be asked from each unit. Student will have to attempt one question from each unit. Each question shall carry equal marks.***

**Unit-I**

Economics and space, Regional Growth Theories: Friedman's core-periphery theory; Center-periphery model; polarisation and trickle-down effect theory of Hirschman; circular and cumulative causation model of Myrdal; growth pole theory of Perroux

**Unit-II**

Selection of indicators and measures of regional backwardness and disparities; Rationale of regional planning; Techniques of regional analysis – regional and inter-regional input – output analysis; attraction model; Gravity model; Shift Share analysis; Impact studies; Surveys for regional planning

**Unit-III**

Experiences of regional development and planning in India - multi level planning (state, district, block and panchayat level planning); Regional Policies during planning; Devolution of financial resources and the multi-level planning; Regional planning and NITI Aayog

**Unit-IV**

Regional development programmes in India- Area development programmes for hill, command area, drought-prone, desert and border areas; Development plans for tribal areas, north- eastern region, Inter-regional differentials in Agriculture, Industry, physical infrastructure, health and poverty

**SUGGESTED READINGS:**

- Chandna, R.C. (2016): Regional Planning: A Comprehensive Text. Kalyani Publishers., New Delhi.
- Capello, Robertra (2016), Regional Economics, Routledge, London and New York
- Chaudhuri, J.R. (2001) : An Introduction to Development and Regional Planning with special reference to India. Orient Longman, Hyderabad.
- Friedmann, J. and Alonso, W. (ed.) (1973) : Regional Development and Planning. The MIT Press, Mass.
- Hoover, E.M. An Introduction to Regional Economics, Alfred. A. Knopf, New York
- Glasson, John : An Introduction to Regional Planning, Hutchinson Educational, London, 1974.
- Glasson, John and Marshall, Tim: Regional Planning Natural and built environment series, Routledge, 2007.
- K.Prasanna Mohanty (2019), Planning and economics of cities, Sage India
- Kuklinski, A.R. (1972): Growth Poles and Growth Centres in Regional Planning. Mouton and Co., Paris.
- Leys, C. (1996): The Rise and Fall of Development Theory. Indian University Press, Bloomington, and James Curry, Oxford.
- Macann, Philip (2013), Modern urban and regional economics, Oxford University Press, UK

- Mahapatra, A.C. and Pathak, C.R. (eds.) (2003): Economic liberalization and Regional Disparities in india. Special Focus on the North Eastern Region. Star Publishing House, Shillong.
- Mahesh Chand and V. K. Puri ; Regional Planning in India, Allied Publishers, New Delhi, 1983.
- Misra, R.P. (ed.) (1992) : Regional Planning: Concepts, Techniques, Policies and Case Studies. 2<sup>nd</sup> edition. Concept Publishing Company., New Delhi.
- Misra, R.P. and Natraj, V.K. (1978): Regional Planning and National Development. Vikas, New Delhi.
- Nath, V (2009), Regional development and planning in India, Concept Publication, New Delhi
- Srivastava, O.S (2006), Regional economics and Regional Planning, Anmol Publications, New Delhi
- Stimson, Robert, J Et.al (2006), Regional economic development, Springer
- Sundaram K V (1986) : Urban and Regional Planning in India, Vikas Publishing House, 1986, New Delhi

**M.A (ECONOMICS) FOURTH SEMESTER  
ECONOMICS OF INFRASTRUCTURE-II  
ECO-413**

**Maximum Marks: 100  
Time: 3 Hrs.**

**External Examination: 80  
Internal Assessment: 20**

*Note: There shall be nine questions in all. Question no. 1 shall be compulsory, consisting of eight short answer type questions covering the entire syllabus. Two questions will be asked from each unit. Student will have to attempt one question from each unit. Each question shall carry equal marks.*

**Unit – I**

**Communications:** Characteristics of postal services; telephone services; coverage, pricing- Rate making in telephone utilities; principles of decreasing cost in telephone industry; Trends and growth in courier, mobile and cellular services in India; Internet connectivity and IT enabled services with special reference to developing economies; Reforms in the telecom sector.

**Unit - II**

**Railways and Air transport:** Analysis of the market; legal requirements and policy; railway characteristics and ownership; international railway trends; railway pricing. Air transport: Development of the Indian air transport industry; current air transport policies; cost and pricing of air transport services; the roles and responsibilities of national and international control bodies.

**Unit - III**

**Social Infrastructure:** Concept of social infrastructure; models of public and private infrastructure management; PPP models; Pricing of social services; Emerging role of social services in the Indian context; Education and manpower planning: problem of education financing and human resources development in India; Education policy of India.

**Unit - III**

**Health and economic development:** Economic dimensions of health care- demand and supply of health care; financing of health care and resource constraints; institutional issues in health care delivery; Inequalities in health – class and gender perspectives; Development of health infrastructure and Health care policies in India.

**SUGGESTED READINGS**

- Glaeser, Edward L.(1998) Are cities dying? Journal of economic perspectives, 12(1), 139-160.
- Mieszkowski, P., and Mills, E.S. (1993): The causes of metropolitan suburbanization, Journal of economic perspectives, 7(1), 135-147.
- Porter M.E. (1998): Clusters and the new economic competition, Harvard business review, 76 (6)
- Sivaramakrishnan, K.C., Kundu A. and Singh B.N. (2005): Handbook of urbanization in India. New Delhi: Oxford University Press
- Naik N.T.K and Mansoor S. R. (2007): Urbanisation of India. New Delhi, Eastern Book Corporation.
- Button K.J.(1993) :Transport Economics, UK, Edward Elgar
- Singh S. K. (2000): Technical characteristics and efficiency of the Indian state road transport undertakings?, Indian journal of transport management, 24(8): 533-543.
- Singh S. K. (2005): Review of urban transportation in India? Journal of public transportation, 8(1)
- Chaudhuri M.D. (1990): Market failure and government failure, Journal of Economic Perspectives, 4(3), 25-39
- National Council of Applied Economic Research (1996): India infrastructure report: policy implications for growth and welfare, New Delhi , NCAER
- Parikh, K.S. (Ed.) (1999): India development report - 1999-2000, New Delhi: Oxford
- Athreya M.B. (1996): India's telecommunication policy, telecommunication policy, 20(1): 11-22
- Sinha N. (1996): The political economy of India's telecom reforms, telecommunication policy, 20(1)
- Krautkraemer J., and M. Toman. (2003): Fundamental economics of depletable energy supply, resources for the future, discussion Paper 03-01.
- Palmer, K., and D. Bullaw., (2005):Cost-effectiveness of renewable electricity policies, energy economics 27: 873-894.

- Dash, L.N.(2007), Economics of Infrastructure: Growth and Development. Regal Publications (ISBN 818991711).
- Das, R.C.(2017), Social, Health and Environmental Infrastructures for Economic Growth, in 'Advances, Finance and Accounting', IGI Global Business Reference Book Series, USA (ISSN 2327-5677).

**M.A (ECONOMICS) FOURTH SEMESTER  
ECONOMICS OF GENDER & DEVELOPMENT-II  
ECO-414**

**Maximum Marks: 100**

**Time: 3 Hrs.**

**External Examination: 80**

**Internal Assessment: 20**

***Note: There shall be nine questions in all. Question no. 1 shall be compulsory, consisting of eight short answer type questions covering the entire syllabus. Two questions will be asked from each unit. Student will have to attempt one question from each unit. Each question shall carry equal marks.***

**Unit-1**

Wage differential in labour market; Determinants of wage differentials: Gender, education, skill, productivity, efficiency, opportunity; Structure of wages across regions and economic sectors.

**Unit-II**

Impact of technological development and modernization on women's work participation in general and in various sectors such as agriculture, non-agriculture rural activities, small and cottage industries and organized industry. Role of new technologies and provision of information and training for helping women to access economic services.

**Unit-III**

Social Security and Protection for Women: Review of legislations for women's entitlements, protection of property rights. Schemes for safety net for women; Need for female labour unions, Role of voluntary organizations, self-help groups in providing social security

**Unit-IV**

Gender and Development: Gender and development indices– Gender Development Index and gender empowerment measurement. Women's Empowerment and Economic Development. Mainstreaming gender into development policies; Gender-planning techniques; Gender sensitive governance.

**SUGGESTED READINGS:**

- Boserup E. (1970), Women's Role in Economic Development, George Allen and Unwin, London.
- Desai, N. and M.K. Raj (Eds.) (1979), Women and Society in India, Research Center for Women Studies, SNDT University, Bombay
- Government of India (1974), Towards Equality – Report of the Committee on the Status of Women in India, Department of Social Welfare, Ministry of Education and Social Welfare, New Delhi.
- Krishnaraj, M., R.M. Sudarshan and A. Shariff (1999), Gender, Population and Development, Oxford University Press, New Delhi.
- Seth, M. (2000), Women and Development: The Indian Experience, Sage Publications, New Delhi.
- Srinivasan K. and A. Shariff (1998), India: Towards Population and Development Goals, Oxford University Press, New Delhi.
- Venkateswaran S. (1995), Environment, Development and the Gender Gap, Sage Publications, New Delhi.

**M.A (ECONOMICS) FOURTH SEMESTER  
FINANCIAL INSTITUTIONS AND MARKETS-II  
ECO-415**

**Maximum Marks: 100  
Time: 3 Hrs.**

**External Examination: 80  
Internal Assessment: 20**

***Note: There shall be nine questions in all. Question no. 1 shall be compulsory, consisting of eight short answer type questions covering the entire syllabus. Two questions will be asked from each unit. Student will have to attempt one question from each unit. Each question shall carry equal marks.***

**Unit - I**

Investment and merchant banking; Mutual Funds; Credit Unions; Savings and Loan Associations; Pension Funds; Provident Funds; Finance Company; Investment Trusts; Common Trusts Fund.

**Unit-II**

Regional rural banks - Role and functions; Financial Sector Reforms in India since 1991 and Agenda for Future; Issues regarding currency convertibility; Non-bank financial intermediaries: Their growth and impact on India's economic development, Control and regulation of NBFCs; Global financial and economic crisis.

**Unit-III**

Money market and capital market: Role and structure of money market and capital market; Call money market, Treasury bill market, Commercial bill market including commercial paper and certificate of deposits, Discount market- Gilt-edged Securities Market; Repos Market; Government securities market- Market for derivatives: future and options and other financial derivatives; Recent Developments in Indian Money Market and capital market; Equity market and IPO.

**Unit-IV**

Regulatory and Promotional Institutions: SEBI and its impact on the working of capital market in India; IRDA and its role in financial market; Rationale for opening up of the Insurance to Private Sector; Growth and Development of Insurance business with special reference to India; Euro-dollar and Euro-Currency markets: Their development role and regulation at the international level.

**SUGGESTED READINGS:**

- Pathak, Bharti V. (2010), the Indian Financial System Markets, Institutions and Services), Pearson Education.
- Bhole, L.M. (2012), Financial Institutions and Markets, Tata McGraw Hill Company Ltd., New Delhi.
- Bhole, L.M. (2012), Indian Financial System, Chugh Publications, Allahabad.
- Edminster, R.O. (1986), Financial Institutions, Market and Management, McGraw Hill, New York.
- Goldsmith, R.W., (1969), Financial Structure and Development, Yale London.
- Gupta, S.B. (1983), Monetary Economics, S. Chand & Company, New Delhi.
- Hanson, J.A. and S. Kathuria (Eds.) (1999), India: A Financial Sector for the Twenty-first Century, Oxford University Press, New
- Johnson, H.J. (1993), Financial Institutions and Markets, McGraw Hill, New York.
- Karker, P.T. and S.A. Zenios (2000) (Ed.), Performance of Financial Institutions, Cambridge University Press, Cambridge.
- Khan M. Y. (1996) - Indian Financial Systems, Tata McGraw Hill, New Delhi.
- Machiraju, M.R. (1999), Indian Financial System, Vikash Publishing House, New Delhi.
- Ohlson, J.A. (1987), the Theory of Financial Markets and Institutions, North Holland, Amsterdam.
- Prasad, K.N. (2001), Development of India's Financial System, Sarup& Sons, New Delhi.
- Robinson, R.I. and D. Wrightman (1981), Financial Markets, McGraw Hill, London
- Smith, P.F. (1978), Money and Financial Intermediation: The Theory and Structure of Financial System, prentice Hall, Englewood-Cliffs, New Jersey.

**M.A (ECONOMICS) FOURTH SEMESTER  
COMPARATIVE ECONOMICS SYSTEMS-II  
ECO-416**

**Maximum Marks: 100  
Time: 3 Hrs.**

**External Examination: 80  
Internal Assessment: 20**

***Note: There shall be nine questions in all. Question no. 1 shall be compulsory, consisting of eight short answer type questions covering the entire syllabus. Two questions will be asked from each unit. Student will have to attempt one question from each unit. Each question shall carry equal marks.***

**Unit-I**

Main Economic Problems: Unemployment, poverty, inequality, concentration of economic and political power, inflation, anarchy of production, social waste, technology, labour exploitation, human alienation, etc.

**Unit-II**

Market Mechanism and Planning- role in production, distribution exchange and consumption processes; Pattern of state intervention.

**Unit-III**

Class Division: Proletarian, capitalist, Peasant and Middle classes. Economic basis of class hegemony.

**Unit-IV**

Capitalism and Socialism: Theory of convergence of the capitalist and socialist systems. Its appraisal.

**SUGGESTED READINGS**

- Leontief (1977): Political Economy. National Book Agency, Calcutta.
- C.H. Feistain (ed) (1967) : Socialism, Capitalism and Economic Growth, Cambridge University Press.
- Maurice Cornforth (1971): Dialectical Materialism, Vol. II, National Book agency, Calcutta.
- Maurice Dobb (1959) : Studies in the Development of capitalism, Routledge & Kegan Paul Ltd., London
- Morris Bronstein (1965) : Comparative Economic systems, Richard D. Irwin, Inc. Illinois
- George N. Halm (1968): Economics Systems: A Comparative Analysis, Oxford & IBH Publishing Company, New Delhi.
- Alec Nove (1977): The Soviet Economic System. George Allen & Unwin Ltd. London.
- A.I.Lenkovsky (1972): Capitalism in India, People's Publishing House, New Delhi.
- Paul M. Sweezy (1991) : The Theory of Capitalist Development, K.P.Bagchi & Company, Calcutta.
- Oskar Lange & F.M. Teylor (1976): On the Economic Theory of Socialism. Tata McGraw Hill Publishing Company, New Delhi.
- Oskar Lange (1965): Problems of Political Economy of Socialism, People's Publishing House, New Delhi.
- Schnizer Nordyke (1977) : Comparative Economic System, Southwestern Publishing Co., China.
- Desai, S.S.M., (1982), Economic Systems, Himalaya Publishing House, Bombay;
- Halm, George N., (1968), Economic Systems, Oxford & IBH Publishing Co., New Delhi
- Sen, K.K., (1994), Comparative Economics Systems, Sultan Chand & Sons, New Delhi
- Grossman, Gregory, (1978), Economic Systems, Prentice Hall, New Delhi.

**M.A (ECONOMICS) THIRD SEMESTER  
GENERAL EQUILIBRIUM AND WELFARE ECONOMICS  
ECO-417**

**Maximum Marks: 100  
Time: 3 Hrs.**

**External Examination: 80  
Internal Assessment: 20**

***Note: There shall be nine questions in all. Question no. 1 shall be compulsory, consisting of eight short answer type questions covering the entire syllabus. Two questions will be asked from each unit. Student will have to attempt one question from each unit. Each question shall carry equal marks.***

**Unit –I**

**Introductory Analysis:** Partial Equilibrium and General Equilibrium analysis; Inter-relationship amongst markets; General equilibrium in exchange and production; Edgeworth box; contract curve; Walras' Law and its implications.

**Unit –II**

**Introductory Welfare Economics:** Concerns of welfare economics; value judgments in welfare economics; positive or normative; concept of social welfare; Assumption of Uniform Income; Utility Function of Individuals: Question of Income distribution; issue of Interpersonal comparisons of Utility; Marshallian welfare economics; consumer's surplus and tax-bounty analysis.

**Unit –III**

**Market Efficiency, Public Goods and Externalities:** public goods model; private financing of public good; free rider problem; the Wicksell – Lindahl tax system; fixed tax sharing and majority voting; Divergence between private and social costs; problems of non-market interdependent externalities of production and consumption; Coase theorem and liability rules.

**Unit –IV**

**Welfare criteria:** Pigovian welfare economics; The Pareto-optimality criterion; Compensation criteria– Contributions of Barone, Kaldor and Hicks; The Scitovsky double criterion; Bergson's Social welfare function; Rawls' theory of social justice; Arrow's Impossibility theorem.

**SUGGESTED READINGS:**

- Allan M Feldman and Serrano Roberto, Welfare economics and Social choice theory, Springer; 2nd ed. 2006 edition (23 December 2005)
- Arrow, K. J. (1951), Social choice and Individual Values, Yale University Press, New Haven
- Baumol, W. J. (Ed.) (2001), Welfare Economics, Edward Elgar Publishing Ltd. U.K.
- Boadway, R.W. and Neil, B. (1984), Welfare Economics, Basil Blackwell, Oxford.
- Dominick Salvatore, (2002) Microeconomics Theory and Applications, Oxford University February 2017)
- Florio Massimo, (2014), Applied welfare economics: Cost benefit analysis of projects and policies, Routledge, London and New York.
- Johansson(1991), An Introduction to Modern Welfare Economics, Cambridge University Press
- Koutsoyiannis (1997), Modern Microeconomics, Macmillan, London.
- Little, I.M.D. (1949), The Foundations of Welfare Economics, Oxford Economic Papers, Vol. 1.
- Little, I.M.D. (1958), A critique of Welfare Economics, Oxford University Press, Ltd., U. K.
- Luigino Bruni, Flavio Comim and Maurizio Pugno, p (Ed.) Capabilities and happiness, Macmillan; 2004 edition (19 December 2003)
- Pigou, A. C. (1962), The Economics of Welfare (4th Edition) Macmillan.
- Scitovsky, T. (1958), Welfare and Competition, George Allen and Unwin Ltd.
- Sen Amartya, Collective Choice and Social Welfare, Penguin; Expanded edition February 2017)
- Yew- Kwang Ng, (2004), Welfare Economics - Towards a more complete analysis, Palgrave Macmillan; 2004 edition (19 December 2003)



**M.A (ECONOMICS) FOURTH SEMESTER**  
**ENVIRONMENTAL AND NATURAL RESOURCES ECONOMICS-II**  
**ECO-418**

**Maximum Marks: 100**  
**Time: 3 Hrs.**

**External Examination: 80**  
**Internal Assessment: 20**

*Note: There shall be nine questions in all. Question no. 1 shall be compulsory, consisting of eight short answer type questions covering the entire syllabus. Two questions will be asked from each unit. Student will have to attempt one question from each unit. Each question shall carry equal marks.*

**Unit-I**

Fundamental principles of Economics of renewable resources- Case of Land, water, fisheries and forest; Bio-diversity conservation and environment

**Unit-II**

Non-renewable energy resources – coal, oil, natural gas, nuclear energy ; global energy consumption patterns ; Economics of Non-renewable resources- Hotelling's rule; Solow-Hartwick's Rule; optimal extraction policy

**Unit-III**

Environmental fiscal reforms in India- emerging options; Environmental Protection Act; Environmental Impact Assessment Regime in India; Payment for environmental services in India; Key Development in India's Energy Policy

**Unit-IV**

Environmental accounting in India; Environmental Degradation and Measures for Its mitigation with Special Reference to India's Agricultural Sector; Managing water for sustainable development- A case of India; Joint Forest management and watershed development in India

**SUGGESTED READINGS**

- Bahera, Bhagirath et.al (2011), Payments for Environmental Services: Issues and Implications for India, Economic and Political Weekly Vol XLVI (20)
- Bhattacharya, R.N. (Ed.) (2001), Environmental Economics: An Indian Perspective, Oxford University Press, New Delhi.
- Charles, Kolstad (2010), Intermediate Environmental Economics, Oxford University Press
- Chaturvedi, Ashish et.al (2014), Environmental fiscal reforms,, IIMB Management Review, Vol 26
- Chopta, Kanchan & Vikram Dayal (2009), Handbook of Environmental Economics in India, Oxford
- Hussen, Ahmed (2013), Principles of Environmental Economics and Sustainability, Routledge, London.
- Menon, Kanchi Kohli (2015), Environmental Regulation in India: Moving 'Forward' in the Old Direction, Economic and Political Weekly, Vol L (50)
- Katar Singh and Anil Sisodia (2009) Environmental Economics, Sage Publications, New Delhi.
- Sankaran (2008) Environmental Economics, Sterling Publishers, New Delhi.
- Sengupta, R.P. (2001), Ecology and Economics: An Approach to Sustainable Development, Oxford University Press, New Delhi.
- Peter and Gloria (2011), The Economics of The Environment, Prentice-Hall

**M.A (ECONOMICS) FOURTH SEMESTER**  
**URBAN ECONOMICS-II**  
**ECO-419**

**Maximum Marks: 100**  
**Time: 3 Hrs.**

**External Examination: 80**  
**Internal Assessment: 20**

***Note: There shall be nine questions in all. Question no. 1 shall be compulsory, consisting of eight short answer type questions covering the entire syllabus. Two questions will be asked from each unit. Student will have to attempt one question from each unit. Each question shall carry equal marks.***

**Unit-I**

Migration and urbanisation: The concept and definition of migration. Classical and Marxist understanding of labour migration. Theories of migration in the context of the developing countries: Hoselitz; Harris and Todaro.

**Unit-II**

The alternative perspectives on labour migration: Williamson, Ellis and Harris, Stark.

**Unit-III**

Salient features of urbanisation: the World, India and the National Capital Region of India

**Unit-IV**

Issues and problems in the urbanisation: Urban poverty and productivity; Urban land and housing; Urban environment; Urban governance.

**SUGGESTED READINGS:**

- O'Sullivan, A (2003) Urban Economics (3<sup>rd</sup> Edn.), IRWIN, London. (Chapters 1-4).
- Habitat, 1996, An Urbanizing World- Global Report on Human Settlements 1996, Oxford University Press: New York
- Richardson, H.W (1988) New Urban Economics, Dryden Press, Hinsdale
- Balchin, Paul N, Issac, David and Chen, Jean (2000) Urban Economics: a global perspective, Palgrave, New York.
- United Nations, Department of Economic and Social Affairs, Population Division (2015).
- World Urbanization Prospects: The 2014 Revision, United Nations New York, 2015.
- Ratnoo, H.S. (2016) Migration of Labour in India: The Squatter Settlements of Delhi routledge: Abingdon, Oxford.

**M.A (ECONOMICS) FOURTH SEMESTER  
HARYANA ECONOMY – II  
ECO-420**

**Maximum Marks: 100**

**Time: 3 Hrs.**

**External Examination: 80**

**Internal Assessment: 20**

***Note: There shall be nine questions in all. Question no. 1 shall be compulsory, consisting of eight short answer type questions covering the entire syllabus. Two questions will be asked from each unit. Student will have to attempt one question from each unit. Each question shall carry equal marks.***

**Unit-I**

Regional Economics: Concept, Scope and Framework; Regional Economic Problems; Different Approaches to Regional Economic Analysis; Role of Transport Costs in Locational Decisions; Weber and Isard's theories, Agglomeration Economies and Diseconomies

**Unit-II**

Economic Structure of Haryana Economy; Agriculture in Haryana, Green Revolution Strategy, Growth and Productivity Levels; Irrigation strategy & levels, Agricultural Diversification, Rural Credit and Rural Indebtedness, Agricultural Marketing, Alternative Sustainable Agricultural Development Approaches; W.T.O. and Haryana Agriculture

**Unit-III**

Industry in Haryana: Pattern, Performance, Constraints and Challenges; Small Scale Industries: Role, Problems and future prospects; State and Industrial Development.  
State Finances: Sources of Revenue and Expenditure Pattern, Budgetary Deficits/Surplus, Financial Health of the State.

**Unit-IV**

Infrastructure: Power Sector: Organisational Structure, Performance, Haryana Electricity Regulatory Commission, Pricing Policies & Finances; Rural Electrification, Transport Sector, Urban Infrastructure, Haryana Urban Development Authority.

**SUGGESTED READINGS:**

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