SCHEME OF B.A. (Hons.) ECONOMICS (SEMESTER SYSTEM) W.E F. 2019-20 IN PHASED MANNER

Chaudhary Devi lal University, Sirsa

Bachelor of Arts (Hons.) Economics

(Semester-wise Syllabus, 2019-20 Onwards)

Chaudhary Devilal University, Sirsa

Scheme for Theory Based Subjects

Guidelines for Scheme of examination of B.A. (Hons.) ECONOMICS

(under semester system)

The Scheme of Examination of undergraduate (UG) Courses under Faculty of Humanities & Social Sciences run by affiliated degree colleges will be under 80: 20 (external: internal) for theory based courses. Pass percentage will be ……..

For the UG courses under Faculty of Humanities & Social Sciences, the guidelines regarding scheme and paper setting will be followed as:

For the end semester examinations, nine questions are to be set by the examiner. The candidates shall attempt five questions in all. First question will be compulsory of 20 marks based on the entire syllabus. It will comprise of five short answer type questions of four marks each. Students are required to attempt any four questions out of remaining eight questions (these eight questions may be (in) up to four units depending on the subject). All remaining questions shall carry equal marks.
Scheme: 80:20 (external: internal)
1st question=20 marks (5 short answer type questions of four marks each)
Rest four questions: 15 marks each i.e. 4 x 15=60
Total = (20+60) + 20 = 100 marks

Components of Internal Assessment (Breakdown of 20 marks)	
(a)	Class Test: 5 marks
(b)	Assignment: 10 marks (Two Assignments 5 marks each)
(c)	Attendance: 5 marks*

*Weightage of 5 marks for **Attendance** component out of 20 marks for Internal Assessment shall be available only to those students who attend **75% and more** of classroom lectures. The break-up of marks for **attendance component** for theory papers shall be as under:

(a) 75% and above up to 80: 2 marks

(b) Above 80% up to 85%: 3 mark

(c) Above 85% up to 90%: 4 marks

(d) Above 90%: 5 marks

SCHEME OF B.A. (Hons) ECONOMICS (SEMESTER SYSTEM) W.E F. 2018-19 IN PHASED MANNER

B.A. Economics (Hons.)-1ˢᵗ Year (Semester- I)	
ECO-C1	Economics Core Course 1: Microeconomics-I
ECO-C2	Economics Core Course 2: Macro Economics-I
ENG-101	English
EVS- 01	Environment Studies (Common with B.A. General)
Comp-101	Compulsory computer Common with B.A. General (only Qualifying)
GE-l*	Generic Elective offered by other Department other than language
B.A. Economics (Hons.)-1ˢᵗ Year (Semester-II)	
ECO-C3	Economics Core Course 3: Microeconomics –II
ECO-C4	Economics Core Course 4: Macro Economics-II
ENG-102	English
Comp-101	Compulsory computer Common with B.A. General (only Qualifying)
GE-2*	Generic Elective offered by other Department other than language
B.A. Economics (Hons.)-2ⁿᵈ Year (Semester-III)	
ECO-C5	Economics Core Course 5: public Economics-I
ECO-C6	Economics Core Course 6: Development Economics-I
ECO-C7	Economics Core Course 7: Statistical Methods for Economists-I
ECO-C8	Economics Core Course 8: History of Economic Thought-I
EVS- 02	Environment Studies (Common with B.A. General)
GE-3*	Generic Elective offered by other Department other than language
B.A. Economics (Hons.)-2ⁿᵈ Year (Semester-IV)	
ECO-C9	Economics Core Course 9: Public Economics- II
ECO-C10	Economics Core Course 10: Development Economics-II
ECO-C11	Economics Core Course 11: Statistical Methods for Economists-II
ECO-C12	Economics Core Course 12: Haryana Economy
GE-4*	Generic Elective offered by other Department other than language
B.A. Economics (Hons.)-3ʳᵈ Year (Semester-V)	
ECO-C13	Economics Core Course 13: Economic Development and Policy in India-I
ECO-C14	Economics Core Course 14: Mathematics for Economists
Required to opt any two papers from Discipline Specific Elective (DSE) from the Group-1:	
Group-1 (Discipline specific Elective (DSE) Courses)	ECO-DSEG11 : International Economics
	ECO-DSEG12 : Industrial Economics
	ECO-DSEG13 : Computer Application in Economics
	ECO-DSEG14 : Rural Development
	ECO-DSEG15 : Money And Banking
EVS-03	Environment Studies (Common with B.A. General)
GE-5*	Generic Elective offered by other Department other than language
B.A. Economics (Hons.)-3ʳᵈ Year (Semester-VI)	
ECO-C15	Economics Core Course 15: Economic Development and Policy in India-II
ECO-C16	Economics Core Course 16: Introductory Econometrics
Required to opt any two papers from Discipline Specific Elective (DSE) from the Group-2:	
Group-2 (Discipline	ECO-DSEG21: Financial economics
	ECO-DSEG22: Environmental Economics

specific Elective (DSE) Courses)	ECO-DSEG23: Agricultural Economics
	ECO-DSEG24: **:** Economics of Health and Education
	ECO-DSEG25 : Economics Infrastructure
GE-6*	Generic Elective offered by other Department other than language

* Under General elective papers (GE1-6), the candidate will opt the papers in each semester from the same discipline as once opted in first semester. The opted papers will belong to discipline other than Economics and language from B.A. pass course. The offering/availability of these options will be decided by the college.

B.A. ECONOMICS (HONS) 1st Year
SEMSTER-1
ECO-C1: MICRO ECONOMICS-I

External Marks: 80
Internal Marks: 20
Time: 3Hrs

Course Description :

In this paper, student is expected to understand the behaviour of an economic agent, namely, a consumer and a producer. In addition, the principles of commodity pricing are also included.

Instructions for the paper-setters and the candidates:
1. The question paper will consist of *nine* questions. The candidate shall attempt *five* questions in all. The Question No. 1 will be *compulsory*. The Candidate shall attempt *four* more questions selecting *at least one* from each *Unit. The paper will* carry 100 marks out of which 20 marks will be earmarked for internal assessment.
2. The **Compulsory Question No.1** will be short answer type questions containing five questions of equal marks (i.e.4,marks each) spread over the whole syllabus and answer to each question should not to be more than half page. Other questions will carry the 15 marks each.

Course Outline :

UNIT-I
Introduction and basic concepts: nature and scope of micro economics, basic economic problem - choice and scarcity, methodology of economics -inductive and deductive methods, positive vs. Normative economics, static and dynamic analysis, partial vs. General equilibrium analysis.

UNIT –II
Demand analysis: law of demand, demand of a firm and market; elasticity of demand - price, cross and income elasticity of demand - measurement of price elasticity of demand; consumer behaviour: theories of demand; cardinal utility approach; indifference curve, consumer's equilibrium. Price, income and substitution effects.

UNIT-III
Theory of production and Supply: production function - the law of variable proportions; returns to scale-isoquant; least cost combination and producer's equilibrium.
Supply: Concept & determinants of supply, law of supply and elasticity of supply.

UNIT-IV

Theory of Costs and Revenue: Concepts and types of costs, traditional and modern theories of costs, Concepts and types of revenue and their relationships, Break even analysis.

Suggested Readings:

Koutsoyiannis, A: (1979*): Modern Microeconomics* , (2nd ed.), Macmillan Press, London.
Sen., A (1999): *Microeconomics: Theory and Applications*, Oxford University Press, New Delhi.

N.G. Mankiw (latest edition), *Economics: Principles and Application,* Cengage Learning Printed in India**.**

Varian, H (latest edition): *Microeconomic Analysis*, W.W. Norton, New York.

William J. Baumol and Alan S. Blinde :*Micro Economics: Principles of Policy* , 10th Edition; South-Western College Pub; (June 21, 2005)

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

Henderson, J.M. and Quandt (latest edition): *Micro Economic Theory: A Mathematical Approach*, McGraw Hill, And New Delhi.

B.A. ECONOMICS (HONS) 1st Year
SEMSTER-I
ECO-C2: MACRO ECONOMICS-I

External Marks: 80
Internal Marks: 20
Time: 3Hrs

Course Description :

As a foundation course, in this paper, student is expected to understand the behaviour of an economy, namely, circular flow. In addition, the concept & measurement of national income as also the problems of consumption & investment has been included.

Instructions for the paper-setters and the candidates:

1. The question paper will consist of *nine* questions. The candidate shall attempt *five* questions in all. The Question No. 1 will be *compulsory*. The Candidate shall attempt *four* more questions selecting *at least one* from each *Unit. The paper will* carry 100 marks out of which 20 marks will be earmarked for internal assessment.
2. The **Compulsory Question No.1** will be short answer type questions containing five questions of equal marks (i.e.4,marks each) spread over the whole syllabus and answer to each question should not to be more than half page. Other questions will carry the 15 marks each.

Course Outline :

Unit-I

Introduction: nature and scope of macroeconomics, difference between micro and macroeconomics and importance of macroeconomics. National income: concepts, measurement and limitations of national income statistics, circular flow of income in two, three and four sector economy.

Unit-II

Determination of income and employment: classical theory of income and employment determination, Keynes objections to classical theory, Keynesian theory of income and employment determination.

Unit-III

Consumption: consumption function, technical attributes of consumption, Keynesian psychological law of consumption and its implications. Income – consumption relationship: absolute and relative income hypothesis and permanent income hypothesis.

Unit-IV

Investment function: types of investment, determination of level of investment, marginal efficiency of capital (MEC).theories of investment: Classical and Keynesian theory of investment (marginal efficiency of investment), saving –investment equality.

Suggested Readings:

Lipsey R.G. and K.A. Christal (latest edition), *Principles of Economics*, 9th Ed., Oxford University Press.

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

Branson, W. A. (1989), *Macroeconomics: Theory and Policy*, 3rd Edition, Harper and Harper and Row, New York.

 Shapiro, E (1996), *Macroeconomics: Analysis*, Galgotia Publication, New Delhi.

Stiglitz J. E. and Carl E. Walsh (2002), *Principles of Macroeconomics*, W.W. Norton and

Company, New York.

Paul Samuelson and Nordhaus: (2005), Economics (18 th Ed.) Tata Hill Publishing Company, New York.

Mankiw N. Gregory: (2007), *Principles of Economics*, Thomson, Indian Reprint.

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B.A. ECONOMICS (HONS) 1st Year
SEMSTER-1
ENG 101: ENGLISH (Compulsory)

External Marks: 80
Internal Assessment: 20
Time Allowed: 3 Hours

Note:- **There will be five questions in all. First question will consist of ten short answer type questions of equal marks (i.e., 2 marks each) spread over the whole syllabus. Other questions will carry 15 marks each.**

Text Prescribed — ENG 101: Literature and Language-I
Edited by: Loveleen Mohan, Randeep Rana and Jaibir Singh Hooda
Publishers : Orient Blackswan

SCHEME OF QUESTION PAPER
Note: The question paper will carry a maximum of 80 marks. The paper will have five questions as per details given below.
Q 1. This question is compulsory and consist ten questions of two marks each. 20 Marks

Q 2. This question will be designed to assess the understanding of the text by the students. The students shall answer any two out of the given four questions in about 150 words each).
15 Marks

Q 3. (a) This question will be based on References to the Context. (one out of two) 5 Marks

(b) This question will be based on vocabulary from the exercises following the chapters. The students shall attempt questions on vocabulary as directed. (e.g. framing sentences of their own or giving various forms of the given words, synonyms, antonyms, one word substitutes). The students shall answer any ten out of the given fifteen words. 10 Marks

Q.4. (a) This question will be based on phonetic transcription given in the chapters in the text book. The students shall transcribe eight words out of the given twelve.
(For blind candidates only):- Word meaning of the words in glossary given at the end of the chapters. Students will be required to give meaning of any eight words out of given twelve words. 8 Marks
(b) The students shall write one paragraph (in about 200 words) on any one of the four topics given. 7 Marks

Q 5. (a) This part will be based on the use of tenses. The students shall attempt seven out of ten sentences. 7 Marks
(b) This part will be based on parts of the speech. The students shall attempt eight out of twelve sentences. 8 Marks

Suggested Reading:

1. Azar, Betty, *Longman Fundamentals English Grammar* (Longman, 2003).
2. Hornby, A. S., *Oxford Advanced Learner's Dictionary* (Oxford University Press, 2015).
3. Lester, Mark, *English Grammar Drills* (McGraw-Hill, 2009).
4. Murphy, Raymond, *English grammar in use: a self-study guide* (Cambridge University Press, 1994).

5. Nesfield, J. C. *English Grammar Composition and Usage* (2001).
6. Nesfield, J. C. *Modern English Grammar* (MacMillan).
7. Swan, Michael, *Practical English Usage* (Oxford, 2013).
8. *The New Roget's Thesaurus in Dictionary Form* (Penguin).
9. Thomson, A. J., *A Practical English Grammar* (Oxford University Press, 1986).
10. Wood, F. T., *A Remedial English Grammar for Foreign Students* (MacMillan, 2015).

B.A. ECONOMICS (HONS) 1st Year
SEMSTER-II
ECO-C3: MICRO ECONOMICS-II

External Marks: 80
Internal Marks: 20
Time: 3Hrs

Course Description :

In this paper, student is expected to understand the behaviour of an economic agent, namely, a consumer and a producer. In addition, the principles of commodity pricing are also included.

Instructions for the paper-setters and the candidates:

1. The question paper will consist of *nine* questions. The candidate shall attempt *five* questions in all. The Question No. 1 will be *compulsory*. The Candidate shall attempt *four* more questions selecting *at least one* from each *Unit. The paper will* carry 100 marks out of which 20 marks will be earmarked for internal assessment.
2. The **Compulsory Question No.1** will be short answer type questions containing five questions of equal marks (i.e.4,marks each) spread over the whole syllabus and answer to each question should not to be more than half page. Other questions will carry the 15 marks each.

Course Outline :

UNIT-I

Price and output determination: prefect competition: features, price determination in short and long run equilibrium of firm and industry; monopoly: price and output determination, price discrimination.

UNIT-II

Price and output determination: monopolistic competition – features, equilibrium of the firm with product differentiation and selling cost, Concept of excess capacity. Monopsony: Features, price determinations and comparison with perfect competition. Bilateral monopoly: Features, price determinations.

UNIT-III

Price and output determination: oligopoly: Characteristics, emergence of Oligopoly, Models of non-collusive Oligopoly: cournot, Betrand, Edgeworth, Stackelberg, Kink demand curve and price rigidity, collusive: price leadership, cartels.

UNIT-IV

Theory of factor pricing: Marginal Productivity theory of distribution, Product Exhaustion theorem, Backward Bending Supply Curve of Labour; Ricardian and modern theories of rent, Concept of Quasi –Rent, Interest: Classical, Neo-classical and Keysian theories, Theories of profit.

Suggested Readings:

Kreps, David M. (1990*), A Course in Microeconomic Theory*, Princeton University Press, Princeton Koutsoyiannis, A. (1979), *Modern Microeconomics*, (2nd Edition), Macmillan Press, London.

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

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

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

Manikiw Gregory N (1968): *Principle Of Economics*, 3 rd Edition, Thomson; 3 rd Indian Reprint(2007)

William J. Baumol and Alan S. Blinde :*Micro Economics: Principles of Policy* , 10th Edition; South-Western College Pub; (June 21, 2005)

B.A. ECONOMICS (HONS) 1st Year
SEMSTER-II
ECO-C4: MACRO ECONOMICS-II

External Marks: 80
Internal Marks: 20
Time: 3Hrs

Course Description :

As an advanced course, in this paper, student is expected to understand the behaviour of a business cycle, money and product market equilibrium in an economy.

Instructions for the paper-setters and the candidates:

1. The question paper will consist of *nine* questions. The candidate shall attempt *five* questions in all. The Question No. 1 will be *compulsory*. The Candidate shall attempt *four* more questions selecting *at least one* from each *Unit. The paper will* carry 100 marks out of which 20 marks will be earmarked for internal assessment.
2. The **Compulsory Question No.1** will be short answer type questions containing five questions of equal marks (i.e.4,marks each) spread over the whole syllabus and answer to each question should not to be more than half page. Other questions will carry the 15 marks each.

Course Outline :

Unit-I

Income Generation and Multiplier: Concepts, Employment multiplier, Investment Multiplier: comparative static and dynamic process. Tax Multiplier, Government Expenditure multiplier and Transfer expenditure multiplier. Acceleration Principle and concept of super multiplier.

Unit II

Money and Credit: Concepts, Functions and significance of money, Quantity theory of money; Fisher and Cambridge equations.

Process of Credit Creation and Credit Control.

Unit-III

Determination of general price level: Inflation: Meaning, types, causes, effects and remedial measures of inflation, theories of inflation: cost push and demand pull inflation, Phillips curve analysis of inflation and unemployment.

Unit-IV

Trade cycles: meanings, types, phases and control of trade cycles, Theories of trade cycles: Cob-web, Kaldor, Hicks and Samuelson.

Suggested Readings:

Lipsey R.G. and K.A. Christal (latest edition), *Principles of Economics*, 9th Ed., Oxford University Press.

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

Branson, W. A. (1989), *Macroeconomics: Theory and Policy*, 3rd Edition, Harper and Harper and Row, New York.

Shapiro, E (1996), *Macroeconomics: Analysis*, Galgotia Publication, New Delhi.

Stiglitz J. E. and Carl E. Walsh (2002), *Principles of Macroeconomics*, W.W. Norton and

Company, New York.

Paul Samuelson and Nordhaus: (2005), Economics (18 th Ed.) Tata Hill Publishing Company, New York.

Mankiw N. Gregory: (2007), *Principles of Economics*, Thomson, Indian Reprint.

B.A. ECONOMICS (HONS) 2nd Year
SEMSTER-11

ENG 102: ENGLISH (Compulsory)

External Marks: 80
Internal Assessment: 20
Time Allowed: 3 Hours

Note:- **There will be five questions in all. First question will consist of ten short answer type questions of equal marks (i.e., 2 marks each) spread over the whole syllabus. Other questions will carry 15 marks each.**

Text Prescribed — ENG 102: Literature and Language-II
Edited by: Jaibir Singh Hooda, Randeep Rana and Loveleen Mohan.
Publishers : Orient Blackswan

SCHEME OF QUESTION PAPER
Note: The question paper will carry a maximum of 80 marks. The paper will have five questions as per details given below.

Q 1.   This question is compulsory and consist ten short answer type questions of two marks each.
20 Marks

Q 2.   This question will be designed to assess the understanding of the text by the students. The students shall answer any three out of the given five questions in about 150 words each).
15 Marks

Q 3.   (a) Do as directed (Topics based on the following grammar topics covered in Semester-I : Articles, Prepositions, Adverbs, Adjectives & Conjunctions). Students will be required to attempt any Eight out of the given twelve.   8 Marks

   (b) Students will be required to give antonyms as well as synonyms of any seven out of the given ten words.   7 Marks

Q 4.   (a) Transcription of one/two syllabic words only from the words given in the exercises at the end of the chapters. Students will be required to transcribe any seven out of the given ten words.
(For blind candidates only):- Word meaning of the words in glossary given at the end of the chapters. Students will be required to give meaning of any seven words out of given ten words.   7 Mark
(b) Composition: Students will be required to write a paragraph in about 200 words on any one of the four given topics of general nature.   8 Marks

Q 5.   This question will be based on the grammar exercises given in the text book. The sentences will not necessarily be the same as given in exercises. Students will be required to attempt any fifteen out of the given twenty.   15 Marks

Suggested Reading/Reference Books:

1. Azar, Betty, *Longman Fundamentals English Grammar* (Longman, 2003).
2. Hornby, A. S., *Oxford Advanced Learner's Dictionary* (Oxford University Press, 2015).
3. Lester, Mark, *English Grammar Drills* (McGraw-Hill, 2009).

4. Murphy, Raymond, *English grammar in use: a self-study guide* (Cambridge University Press, 1994).
5. Nesfield, J. C. *English Grammar Composition and Usage* (2001).
6. Nesfield, J. C. *Modern English Grammar* (MacMillan).
7. Swan, Michael, *Practical English Usage* (Oxford, 2013).
8. *The New Roget's Thesaurus in Dictionary Form* (Penguin).
9. Thomson, A. J., *A Practical English Grammar* (Oxford University Press, 1986).
10. Wood, F. T., *A Remedial English Grammar for Foreign Students* (MacMillan, 2015).

External Marks: 80
Internal Marks: 20
Time: 3Hrs

Course Description :

Public economics is the study of government policy from the points of view of economic efficiency and equity. The paper deals with the nature of government intervention and its implications for allocation, distribution and stabilization. Inherently, this study involves a formal analysis of government taxation and expenditures. The subject encompasses a host of topics including public goods, market failures and externalities. The paper is divided into two sections, one dealing with the theory of public economics and the other with the Indian public finances.

Instructions for the paper-setters and the candidates:
1. The question paper will consist of *nine* questions. The candidate shall attempt *five* questions in all. The Question No. 1 will be *compulsory*. The Candidate shall attempt *four* more questions selecting *at least one* from each *Unit. The paper will* carry 100 marks out of which 20 marks will be earmarked for internal assessment.
2. The **Compulsory Question No.1** will be short answer type questions containing five questions of equal marks (i.e.4,marks each) spread over the whole syllabus and answer to each question should not to be more than half page. Other questions will carry the 15 marks each.

Course Outline :

UNIT I Public finance---meaning, scope and subject matter, public finance vs. Private finance, Role of public finance in national economy; Role of state intervention in a developing economy; Major fiscal Functions of Government: Principle of maximum social advantage;

Unit II

Market failure and rationale for government intervention; Imperfections and market failure; Externalities--- nature, types and internalization of externalities: corrective taxes and subsidies, Provision of Public Goods.

UNIT III
Public revenue: tax and non-tax revenue, direct and indirect taxes, effects of tax on production, distribution and economic activities. Canons of Taxation, Features of a Good Tax system, Impact, Incidence and Shifting of Taxation.
Unit IV
Indian public finance: features of Indian tax system, tax revenues of the central and state governments, direct and indirect taxes levied by the state and Centre, changing tax structure of India, tax reforms since1991, VAT and GST.
Suggested Readings
Musgrave, R.A, *Theory of Public Finance*, McGraw Hil
Atkinson and Stiglitz. *Lectures on Public Economics*,
Ghosh Ambar and Ghosh Chandana *Economics of the Public Sector*, PHI
Herber B. P. *Modern Public Finance*

Due, John F and Friedlander, *Government Finance*.
Goode R. *Government Finance in Developing Countries*. Tata McGraw Hill.
Houghton J. M. *The Public Finance: Selected Reading*, Pengui
 Mathew T. *Economics of Public Expenditure*, Vora

B.A. ECONOMICS (HONS) 2nd Year
SEMSTER-III
ECO-C6: DEVELOPMENT ECONOMICS-I

External Marks: 80
Internal Marks: 20
Time: 3Hrs

Course Description :

As a foundation course, in this paper, student is expected to understand the growth & development of an economy or country. In addition, the concept & theories of under developed countries as also the problems of planning has been included.

Instructions for the paper-setters and the candidates:

1. The question paper will consist of *nine* questions. The candidate shall attempt *five* questions in all. The Question No. 1 will be *compulsory*. The Candidate shall attempt *four* more questions selecting *at least one* from each *Unit. The paper will* carry 100 marks out of which 20 marks will be earmarked for internal assessment.
2. The **Compulsory Question No.1** will be short answer type questions containing five questions of equal marks (i.e.4,marks each) spread over the whole syllabus and answer to each question should not to be more than half page. Other questions will carry the 15 marks each.

Course Outline :

Unit-I

Basic Concepts of Economic Development: Economic Growth and Development, Concept of underdevelopment and basic characteristics; Determinants and Measurement indicators (PQLI and HDI) of economic development: sustainable economic development.

Unit-II

Theories of Economic Development: Adam Smith, Ricardo, Karl Marx and Schumpeter.

Unit-III

Development Approaches to Development: Vicious Circle of Poverty, Lewis dual economy model, Leibenstein critical minimum effort theory, balanced vs. unbalanced growth theories.

Unit-IV

Economic Planning and Policy: Development planning: rationale, Strategies and objectives of planning; Role of state and Capital formation in economic development. Investment criteria.

Suggested Readings:

Thirlwall, A. P.(2003),*Growth and Development*, Seventh edition, Palgrave Macmillan, New York. Todaro, Michael P. and Stephen C Smith (2004),*Economic Development*, Pearson Education, (Singapore) Pvt. Ltd., Indian Branch, Delhi.

Ray, Debraj(2004),*Development Economics*, Seventh impression, Oxford University Press, New Delhi.

Meier, Gerald M. and James E. Rauch (2000), *Leading Issues in Economic Development,*Oxford University Press, New York.

Ghatak, Subrata (2003), *Indian Reprint 2007: Introduction to Development Economics*, Rout ledge, London & New York.

Rist, Gilbert (2002), *The History of Development*, Academic Foundation, New Delhi

Ghosh, Arun (1996), *Paradigms of Economic Development*, IIAS, Shimla.

Fukuda-Parr Sakiko and Kumar Shiva, A K (2003), *Readings in Human Development*, Oxford University Press

Sen, A K (ed.) (1970), *Growth Economics*, Penguin Books

B.A. ECONOMICS (HONS) 2nd Year
SEMSTER-III
ECO-C7: STATISTICAL METHODS FOR ECONOMICS-I

External Marks: 80
Internal Marks: 20
Time: 3Hrs

Course Description :

This is the first of a two-part sequence on statistical methods. It begins with some basic concepts and terminology that are fundamental to statistical analysis and inference. It then develops the notion of probability, followed by probability distributions of discrete and continuous random variables. The semester concludes with a discussion of joint distributions.

Instructions for the paper-setters and the candidates:
1. The question paper will consist of *nine* questions. The candidate shall attempt *five* questions in all. The Question No. 1 will be *compulsory*. The Candidate shall attempt *four* more questions selecting *at least one* from each *Unit. The paper will* carry 100 marks out of which 20 marks will be earmarked for internal assessment.
2. The **Compulsory Question No.1** will be short answer type questions containing five questions of equal marks (i.e.4,marks each) spread over the whole syllabus and answer to each question should not to be more than half page. Other questions will carry the 15 marks each.

Course Outline :

Unit I

Introduction: Meaning, Features, Scope and limitation of statistics. Types and Collection of Data, Tabulation and classification of data: discrete and continuous one – way and two – way frequency distribution. Diagrammatic and graphic presentation of data.

Unit II

Measures of central tendency: Arithmetic mean, Geometric mean, Harmonic mean, median, mode and Partition values. Properties merits and demerits of different Measures of central tendency. Properties of a Good Average.

Unit III

Dispersion: meaning, importance, absolute and relative measures of dispersion. Methods of Measuring Dispersion: Range, Quartile Deviation, Mean Deviation, Standard Deviation, Coefficient of variation and Lorenz Curve.

Unit IV

Skewness: Meaning of Skewness, Skewness and Frequency Distribution, Difference between Skewness and Dispersion, Measures of Skewness: Karl Pearson, Bowley and Kelly methods. Moments and Measures of Kurtosis.

Suggested Readings:

Jay L. Devore, *Probability and Statistics for Engineers*, Cengage Learning, 2010.

John E. Freund, *Mathematical Statistics*, Prentice Hall, 1992.

Richard J. Larsen and Morris L. Marx, *An Introduction to Mathematical Statistics and its Applications*, Prentice Hall, 2011.

A.L. Nagar and R.K. Das (2006), *Basic Statistics*, Second Edition Oxford University Press, New Delhi.

External Marks: 80
Internal Marks: 20
Time: 3Hrs

Course Description:

The evolution of economic ideas in each instance was as much a response to immediate economic problems and policy issues as much as it was a self-conscious attempt to refine our understanding of economic phenomenon. This course would enable the student to understand how contemporary economics came to be what it is.

Instructions for the paper-setters and the candidates:

1. The question paper will consist of *nine* questions. The candidate shall attempt *five* questions in all. The Question No. 1 will be *compulsory*. The Candidate shall attempt *four* more questions selecting *at least one* from each *Unit. The paper will* carry 100 marks out of which 20 marks will be earmarked for internal assessment.
2. The **Compulsory Question No.1** will be short answer type questions containing five questions of equal marks (i.e.4,marks each) spread over the whole syllabus and answer to each question should not to be more than half page. Other questions will carry the 15 marks each.

Course Contents:

Unit 1

Early period economic thought: Plato and Aristotle — Doctrines of Just cost and Just price, Economic thoughts of Kautilya, Valluvar;

Modern economic ideas: Naoroji, Economic ideas of Gandhi: Village, Swadeshi, J.K. Mehta: Wantlessness.

Unit -II:

Mercantilism: Rise and main characteristics of Mercantilism; Thomas Mun — Physicracy: primacy of agriculture, taxation, Locke and Hume. Quesney,s Tableau Economique

Unit -III

Classical Period: Adam Smith — division of labour, theory of value, capital accumulation, distribution, views on trade, economic progress; Thomas R. Malthus — theory of population, theory of gluts; Karl Marx - dynamics of social change, theory of value, surplus value, profit, and crisis of capitalism; Economic ideas of J.B. Say.

Unit –IV

Marshall as a great synthesizer: role of time in price determination, Pigou: Welfare economics; Schumpeter: role of entrepreneur and innovations. Keynesian Ideas: the aggregate economy, underemployment equilibrium.

Suggested Readings:

Blackhouse, R. (1985*), A History of Modern Economic Analysis*, Basil Blackwell, Oxford.

Ganguli, B.N. (1977), *Indian Economic Thought: A 19th Century Perspective*, Tata McGraw Hill, New Delhi.

Gide, C. and G. Rist (1956), *A History of Economic Doctrines*, (2nd Edition), George Harrop & Co., London. Economics 42

Grey, A. and A.E. Thomson (1980), *The Development of Economic Doctrine*, (2nd Edition), Longman Group, London.

Kautilya (1992), *The Arthashastra*, Edited, Rearranged, Translated and Introduced by L.N. Rangaranjan, Penguin Books, New Delhi.

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

Schumpeter, J.A. (1954), *History of Economic Analysis*, Oxford University Press, New York.

Seshadri, G.B. (1997), *Economic Doctrines*, B.R. Publishing Corporation, Delhi.

B.A. ECONOMICS (HONS) 2nd Year
SEMSTER-IV
ECO –C9: PUBLIC ECONOMICS-II

External Marks: 80
Internal Marks: 20
Time: 3Hrs

Course Description :

Public economics is the study of government policy from the points of view of economic efficiency and equity. The paper deals with the nature of government intervention and its implications for allocation, distribution and stabilization. Inherently, this study involves a formal analysis of government taxation and expenditures. The subject encompasses a host of topics including public goods, market failures and externalities. The paper is divided into two sections, one dealing with the theory of public economics and the other with the Indian public finances.

Instructions for the paper-setters and the candidates:
1. The question paper will consist of *nine* questions. The candidate shall attempt *five* questions in all. The Question No. 1 will be *compulsory*. The Candidate shall attempt *four* more questions selecting *at least one* from each *Unit. The paper will* carry 100 marks out of which 20 marks will be earmarked for internal assessment.
2. The **Compulsory Question No.1** will be short answer type questions containing five questions of equal marks (i.e.4,marks each) spread over the whole syllabus and answer to each question should not to be more than half page. Other questions will carry the 15 marks each.

Course Outline :

Unit-I

Public Expenditure − Meaning, Public and private Expenditure, Classification and role of public expenditure; Causes of increase in Public expenditure,Wagner's law of increasing state activities; Wiseman-Peacock hypothesis; canons and effects of public expenditure.

Unit-II

Budgeting-Meaning and purpose of budget; Types or classification of Budget, Budget as an instrument of economic Growth; Arguments in favour and against Balanced budget, Budget making process in India; Measures of budget deficit and their significance; Balanced budget multiplier.

Unit-III

Public debts: Meaning, objectives and sources of public debt; Public and Private debt, classification and effects of public debt; burden of public debt, Burden Controversy; redemption of public debt.

Unit-IV

Public enterprises – Meaning, objectives, Features and forms of organization; Role of public enterprises in a developing Economy, Fiscal sector reforms in India; Division of functions and resources between centre and state in India, Deficit Financing in India- Objectives and Justification.

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Suggested Readings

Musgrave, R.A, *Theory of Public Finance*, McGraw Hil

Atkinson and Stiglitz. *Lectures on Public Economics*,

Ghosh Ambar and Ghosh Chandana *Economics of the Public Sector*, PHI

Herber B. P. *Modern Public Finance*

Due, John F and Friedlander, *Government Finance*.

Goode R. *Government Finance in Developing Countries*. Tata McGraw Hill.

Houghton J. M. *The Public Finance: Selected Reading*, Pengui

 Mathew T. *Economics of Public Expenditure*, Vora

B.A. ECONOMICS (HONS) 2nd Year
SEMSTER-IV
ECO-C10: DEVELOPMENT ECONOMICS-II

External Marks: 80
Internal Marks: 20
Time: 3Hrs

Course Description :

This is the first part of a two-part course on economic development. The course begins with a discussion of alternative conceptions of development and their justification. It then proceeds to aggregate models of growth and cross-national comparisons of the growth experience that can help evaluate these models. The axiomatic basis for inequality measurement is used to develop measures of inequality and connections between growth and inequality are explored. The course ends by linking political institutions to growth and inequality by discussing the role of the state in economic development and the informational and incentive problems that affect state governance.

Instructions for the paper-setters and the candidates:
1. The question paper will consist of *nine* questions. The candidate shall attempt *five* questions in all. The Question No. 1 will be *compulsory*. The Candidate shall attempt *four* more questions selecting *at least one* from each *Unit. The paper will* carry 100 marks out of which 20 marks will be earmarked for internal assessment.
2. The **Compulsory Question No.1** will be short answer type questions containing five questions of equal marks (i.e.4,marks each) spread over the whole syllabus and answer to each question should not to be more than half page. Other questions will carry the 15 marks each.

Course Outline :

Unit-I
Conceptions of development: alternative measures of development, documenting the international variation in these measures, comparing development trajectories across nations and within them.

Unit-II
Growth models: the Harrod-Domar model, the Solow model and its variants, endogenous growth models and evidence on the determinants of growth.

Unit-III
Poverty and inequality: definitions, measures and mechanisms inequality axioms; a comparison of commonly used inequality measures; connections between inequality and development; poverty measurement; characteristics of the poor; mechanisms that generate poverty traps and path dependence of growth processes.

Unit-IV
Political institutions and the functioning of the state: the determinants of democracy; alternative institutional trajectories and their relationship with economic performance; within-country differences in the functioning of state institutions; state ownership and regulation; government failures and corruption.

Suggested Readings

Thirlwall, A. P.(2003),*Growth and Development*, Seventh edition, Palgrave Macmillan, New York.
Todaro, Michael P. and Stephen C Smith (2004),*Economic Development*, Pearson Education, (Singapore) Pvt. Ltd., Indian Branch, Delhi.
Meier, Gerald M. and James E. Rauch (2000), *Leading Issues in Economic Development,* Oxford University Press, New York.
Debraj Ray, *Development Economics,* Oxford University Press, 2009.
Partha Dasgupta, *Economics: A Very Short Introduction,* Oxford University Press, 2007. Abhijit Banerjee, Roland Benabou and Dilip Mookerjee, *Understanding Poverty,* Oxford University Press, 2006.
Kaushik Basu, 2012, editor, *The New Oxford Companion to Economics in India,* Oxford University Press.
Amartya Sen, *Development as Freedom,* Oxford University Press, 2000.
Daron Acemoglu and James Robinson, *Economic Origins of Dictatorship and Democracy*, Cambridge University Press, 2006.
Robert Putnam, *Making Democracy Work: Civic Traditions in Modern Italy*, Princeton University Press, 1994.

B.A. ECONOMICS (HONS) 2nd Year
SEMSTER-IV
ECO-C11: Statistical Methods for Economics-II

<div align="right">

External Marks: 80
Internal Marks: 20
Time: 3Hrs

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Course Description :

This is the second course in the two part sequence on statistical methods. It begins with a discussion on sampling techniques used to collect survey data. It introduces the notion of sampling distributions that act as a bridge between probability theory and statistical inference. It then covers topics in inference that include point estimation, statistical intervals and hypothesis testing. It concludes with a discussion of the simple linear regression model.

Instructions for the paper-setters and the candidates:
1. The question paper will consist of *nine* questions. The candidate shall attempt *five* questions in all. The Question No. 1 will be *compulsory*. The Candidate shall attempt *four* more questions selecting *at least one* from each *Unit. The paper will* carry 100 marks out of which 20 marks will be earmarked for internal assessment.
2. The **Compulsory Question No.1** will be short answer type questions containing five questions of equal marks (i.e.4,marks each) spread over the whole syllabus and answer to each question should not to be more than half page. Other questions will carry the 15 marks each.

Course Outline :

Unit-I

Correlation and regression analysis: Simple correlation, Pearson, spearman's correlation coefficients. Partial and Multiple correlation analysis. Simple and multiple regression analysis, interpretation of correlation and regression coefficients and their properties.

Unit-II

Basic concepts and definitions of probabilities: Laws of Addition and multiplication; Conditional probability; Bay's Theorem; Basic concepts of sampling-random and non - random sampling. Normal distribution and its properties.

Unit-III

Index Numbers: Meaning, types and uses of index numbers, Methods of constructing index numbers (Laspeyre, Paasche, Fisher, Marshall and Edgeworth) Test of adequacy of index number formulae. Base Conversion, Base Shifting, splicing.

Unit-IV

Time Series Analysis: Meaning, utility and components of time series; Decomposition of time series; Methods of measuring trends(Semi- Average, Moving Average and Least square methods)

Suggested Readings:
Jay L. Devore, *Probability and Statistics for Engineers,* Cengage Learning, 2010.

William G. Cochran, *Sampling Techniques,* John Wiley, 2007.

Richard J. Larsen and Morris L. Marx, *An Introduction to Mathematical Statistics and its Applications,* Prentice Hall, 2011.

 Gupta S.C. and V.K. Kapoor, *Fundamentals of Applied Statistics*, S. Chand and Sons New Delhi.

Speigal, M. R., *Theory and Problems of Statistics*, McGraw Hill Book, London

ECO-C12: Haryana Economy

Maximum Marks: 100 Internal Assessments: 20   **External Assessment: 80**
Time Allowed: 3 Hours

Course Description : **To understand the dynamics of regional development. The issues are discussed with reference to local economy of Haryana to develop a local context of economic issues.**

Instructions for the paper-setters and the candidates:
1. The question paper will consist of *nine* questions. The candidate shall attempt *five* questions in all. The Question No. 1 will be *compulsory*. The Candidate shall attempt *four* more questions selecting *at least one* from each *Unit. The paper will* carry 100 marks out of which 20 marks will be earmarked for internal assessment.
2. The **Compulsory Question No.1** will be short answer type questions containing five questions of equal marks (i.e.4,marks each) spread over the whole syllabus and answer to each question should not to be more than half page. Other questions will carry the 15 marks each.

Course Contents

Unit 1

Regional Economics- Concept, Scope and framework; Regional economic problems; Different Approaches to Regional Economic Analysis; Role of transport costs in location Decisions, Weber and Isard's Theories.

Unit 2

Structural Changes in Haryana Economy- Role of Agricultural in Haryana, Growth & productivity of Agriculture in Haryana, Green Revolution; role, performance & implications; Agricultural diversification, rationale, constraints and prospectus; agriculture credit & marketing, Soil degradation, Irrigation and water management, WTO and Haryana Agriculture.

Unit 3

Industry in Haryana: Industrial development – Pattern, performance, constraints & challenges; Small–scale industry role, problems & future prospects; State & industrial development, HSIIDC, Development of transport and banking in Haryana, Regional inequality.

Unit 4

Public Finances of Haryana- Sources of revenue and heads of expenditure; Problems of resource mobilization in Haryana, State Public sector Undertakings, off budget liabilities.
  Infrastructure and Human Development- Education, Health, Housing, State Human development Index.

Readings: Hoover, F.M. (1984) An Introduction to Regional Economics, UCEB.
Richardson, H.W. (1972) Regional Economics, Weidenfeld and Nicolson, London.
 Statistical Abstract and Economics Survey of Haryana various years.

B.A. ECONOMICS (HONS) 3rd Year
SEMSTER-V
ECO-C13: Economic Development and Policy in India-I

External Marks: 80
Internal Marks: 20
Time: 3Hrs

Course Description :

Using appropriate analytical frameworks, this course reviews major trends in economic indicators and policy debates in India in the post-Independence period, with particular emphasis on paradigm shifts and turning points. Given the rapid changes taking place in India, the reading list will have to be updated annually

Instructions for the paper-setters and the candidates:
1. The question paper will consist of *nine* questions. The candidate shall attempt *five* questions in all. The Question No. 1 will be *compulsory*. The Candidate shall attempt *four* more questions selecting *at least one* from each *Unit. The paper will* carry 100 marks out of which 20 marks will be earmarked for internal assessment.
2. The **Compulsory Question No.1** will be short answer type questions containing five questions of equal marks (i.e.4,marks each) spread over the whole syllabus and answer to each question should not to be more than half page. Other questions will carry the 15 marks each.

Course Outline :

Unit I
Economic development since independence: major features of Indian economy at independence and characteristics of economic under development of India (with reference to colonial rule of India); trend in national income and per capita income; sectoral composition (output and employment) - primary, secondary and tertiary. Development under different policy regimes—goals, constraints, institutions and policy framework;

Unit II
Population and human development: broad demographic features — population size and growth rates, sex and age composition, occupational distribution. Density of population, urbanisation and economic growth in India. Population growth as a factor of economic development, national population policy, progress of human development in India. Development of education in India, health and family welfare and the development of health infrastructure.

Unit III
Structural change of post independent Indian economy: growth, distribution and trends of national income, sectoral distribution. An assessment of performance—sustainability and regional contrasts; structural change, savings and investment. Trends, measurement and policies in poverty; inequality-measurement, causes and effects, unemployment-types, causes and employment policies in India.

Unit IV.

Indian economy in post reform period: background of Indian economic reforms – new economic policy; redefining India's development strategy; changing role of state and market industrial policy, disinvestment policy and privatization; financial sector reforms including banking reform.

Suggessted Reading:

Jean Dreze and Amartya Sen, Jean Dreze and Amartya Sen, 2013. *An Uncertain Glory: India and its Contradictions*, Princeton University Press.
Pulapre Balakrishnan, 2007, The Recovery of India: Economic Growth in the Nehru Era, *Economic and Political Weekly*, November.
Rakesh Mohan, 2008, Growth Record of Indian Economy: 1950-2008. A Story of Sustained Savings and Investment, *Economic and Political Weekly*, May.
Uma Kapila,2010, India's economic Development since 1947, Academic Foundation,
Himanshu, 2010, Towards New Poverty Lines for India, *Economic and Political Weekly*, January.
Mishra and Puri(2015), *Indian Economy*, Kalyani Pub,New Delhi

B.A. ECONOMICS (HONS) 3ʳᵈ Year
SEMSTER-V
ECO-C14: MATHEMATICAL METHODS FOR ECONOMISTS-I

External Marks: 80
Internal Marks: 20
Time: 3Hrs

<u>**Course Description**</u>:

This is the first of a compulsory two-course sequence. The objective of this sequence is to transmit the body of basic mathematics that enables the study of economic theory at the undergraduate level, specifically the courses on microeconomic theory, macroeconomic theory, statistics and econometrics set out in this syllabus. In this course, particular economic models are not the ends, but the means for illustrating the method of applying mathematical techniques to economic theory in general.

<u>**Instructions for the paper-setters and the candidates:**</u>
1. The question paper will consist of ***nine*** questions. The candidate shall attempt ***five*** questions in all. The Question No. 1 will be ***compulsory***. The Candidate shall attempt *four* more questions selecting *at least one* from each *Unit. The paper will* carry 100 marks out of which 20 marks will be earmarked for internal assessment.
2. The **Compulsory Question No.1** will be short answer type questions containing five questions of equal marks (i.e.4,marks each) spread over the whole syllabus and answer to each question should not to be more than half page. Other questions will carry the 15 marks each.

<u>**Course Outline :**</u>

UNIT – I

Matrices and determinants: types; transpose, trace, ad joint and inverse of matrices; solution of a system of two and three equations by matrix inverse and Cramer's methods; rank of a matrix; simple application questions. Application of input-output analysis.

UNIT – II

Derivatives: Rules of differentiation and its economic applications. Rules of Partial differentiation and its economic applications. Problem of maxima -minima in single and multivariable function and its economic applications.

UNIT – III

Difference equations – Solution of first and second order difference equations; Applications in trade cycle models; Growth models and lagged market equilibrium models.

UNIT – IV

Linear programming: formulation and solution by graphic method & simplex method.

Suggested Readings:

Chiang, Alpha C (1984): *Fundamental Methods of Mathematical Economics* (3 rd Ed.), McGraw Hill

Weber, Jean E (1976*): Mathematical Analysis Business and Economic Applications*, Harper & Row; 3rd edition .

Yamane, Taro (1972): *Mathematics for Economists,* Prentice-Hall; 2 edition (1968)

Allen, R G D (1983): *Mathematical Analysis for Economists*,Brunton Press (March 15, 2007)

Kooros, A (1965): Elements of Mathematical Economics, Houghton Mifflin; Ist Edition. Bose, D C (1996): *An Introduction to Mathematical Economics*.

B.A. ECONOMICS (HONS) 3rd Year
SEMSTER-V
ECO –DSEG11 INTERNATIONAL ECONOMICS

External Marks: 80
Internal Marks: 20
Time: 3Hrs

Course Description :

The course intends to provide a deep understanding about the broad principles and theories, which tend to govern the free flow of trade in goods, services and capital- both short-term and long-term- at the global level. The contents of the paper spread over the different modules, lay stress on the theory and nature of the subject which, in turn, will greatly help them to examine the impact of the trade policies followed both as the national and international levels as also their welfare implications at macro level andthe distribution of gains from trade

Instructions for the paper-setters and the candidates:
1. The question paper will consist of *nine* questions. The candidate shall attempt *five* questions in all. The Question No. 1 will be *compulsory*. The Candidate shall attempt *four* more questions selecting *at least one* from each *Unit. The paper will* carry 100 marks out of which 20 marks will be earmarked for internal assessment.
2. The **Compulsory Question No.1** will be short answer type questions containing five questions of equal marks (i.e.4,marks each) spread over the whole syllabus and answer to each question should not to be more than half page. Other questions will carry the 15 marks each.

Course Outline :

UNIT-I

The pure theory of international trade: theories of absolute advantage, comparative advantage and opportunity costs, H-O theory, factor price equalisation.

UNIT-II

Commercial policy: the theory of tariffs, optimum and effective rate of tariff, inter-relationship between trade, aid and economic development. Theory of economic integration among nations; forms of economic integration and theory of customs union.

UNIT-III

Balance of payments, exchange rate and trade structures: the process of adjustment in the balance of payments. The concept of foreign trade multiplier. Fixed vs. Flexible exchange rates and their relative merits and demerits.

UNIT-IV

International monetary system: imf and international monetary system, present international monetary system, problems of international liquidity. Proposals for international monetary reforms. New international economic order.

Recommended Readings:

Soderston , B. O.(1994): *International Economics*, 2 nd Edition, Macmillan Press, London,

Salvatore, Dominick (latest edition): *International Economics*, John Wiley & Sons.

Krugman P R&ObstifeldMaurice(latestedition): *International Economics – Theory and Policy*, Addison- wesley.

Kindleberger, C.P.(1987): *International Economics*, Richard Irwin, Homes wood, Illinois,Indian Edition

External Marks: 80
Internal Marks: 20
Time: 3Hrs

Instructions for the paper-setters and the candidates:

1. The question paper will consist of *nine* questions. The candidate shall attempt *five* questions in all. The Question No. 1 will be *compulsory*. The Candidate shall attempt *four* more questions selecting *at least one* from each *Unit. The paper will* carry 100 marks out of which 20 marks will be earmarked for internal assessment.
2. The **Compulsory Question No.1** will be short answer type questions containing five questions of equal marks (i.e.4,marks each) spread over the whole syllabus and answer to each question should not to be more than half page. Other questions will carry the 15 marks each.

Course Outline :

Unit-I

Scope and methods of industrial economics; basic concepts of firm, industry and market; organisational forms and alternative motives of the firms; industrial structure and economic development.

Unit-II

Market structure: sellers concentration, product differentiation, conditions of entry and economies of scale, market structure and profitability. Growth of firms : vertical integration, diversification, mergers and innovation; constraints on growth demand, financial and managerial.

Unit-III

Theory of industrial location, contribution of Weber and Sargent Florence, centralized vs. Balanced regional development, industrial concentration and dispersal in India.

Unit-IV

Industrial policy since independence, industrial development under plans and reasons for deceleration of industrial growth, growth of state industrialization in India.

Recommended Readings:

Barthwal, R. R. (2010) : *Industrial Economics : An Introductory Text Book*, New Age International Publisher (P.) Ltd., New Delhi.

Datt , Rudar & Sundharam K. P. M. (2012) : *Indian Economy* , S. Chand & Company.

Devine , P. J. et al. (1974) : *An Introduction of Industrial Economics*, George Allen & Unwin Ltd.,London.

Howe , W. Steward (1978) : *Industrial Economics : An Applied Approach*, The Macmillan Press Ltd. 5. Kuchhal, S. C. (1989) : *Industrial Economy of India* , Allahabad, Chaitanya Publishing House.

Ahluwalia , Ishar Judge (1985) : *Industrial Growth in India : Stagnation Since Mid Sixties*, Oxford University Press, Delhi.

Penrose, E. T. (1995) : *The Theory of Growth of Firm*, Oxford, Basil Blackwell.

Richardson, Harry W. (1969) : *Elements of Regional Economics*, Penguin Education.

Sivayya & Das (1978) : *Indian Industrial Economy*, S. Chand & Co., New Delhi

Smith, David M. (1971) : *Industrial Location : An Economic Geographical Analysis*, John Wiley & Sons Inc.

ECO- DSEG13: COMPUTER APPLICATION IN ECONOMIC ANALYSIS

External Marks: 80
Internal Marks: 20
Time: 3Hrs

Course Description :

This course begins with a discussion basic use of computer to collect survey data. It introduces the notion MS office, networking and statistical software for statistical inference.

Instructions for the paper-setters and the candidates:

1. The question paper will consist of *nine* questions. The candidate shall attempt *five* questions in all. The Question No. 1 will be *compulsory*. The Candidate shall attempt *four* more questions selecting *at least one* from each *Unit. The paper will* carry 100 marks out of which 20 marks will be earmarked for internal assessment.
2. The **Compulsory Question No.1** will be short answer type questions containing five questions of equal marks (i.e.4,marks each) spread over the whole syllabus and answer to each question should not to be more than half page. Other questions will carry the 15 marks each.

Course Outline :

Unit-I

Introduction to MS-Word: Meaning, Features of a good word processor, Opening, saving and printing documents files, Editing and formatting of documents, inserting page Numbers and footnotes, Table: Auto Format and Properties, Inserting graphs and diagrams, Introduction to MS Power Point.

Unit-II

Introduction to Spread Sheet Software: Meaning and Applications; Features of MS-Excel. Creation of worksheets; Data entry, formatting, sorting and validation; Importing and exporting of data files, Uses of mathematical, financial and statistical function; Creation of diagrams and graphs.

Units III

Networking of Computer: Intranet, Internet and extranet , LAN, WAN, MAN, Internet Explorer, Search engines, Emails, Computer, document and Internet Security, Antivirus-scanning and updates

Unit-IV

Introduction to SPSS: Creation of data files, assigning names and labels to variables, Data Analysis: Descriptive statistics, Comparing means, Simple Correlation analysis, Simple Regression Analysis, Preparation of graphs and diagrams. An overview of techniques used in research: Univarate, Bivariate and Multivariate Analysis.

Suggested Readings:

Bhattacharjee Dibyojyoti (2010), *Practical Statistics: Using Microsoft Excel*, Asian Books,Asian Books Private Limited, New Deli

George, Darren Mallery Paul (2011), *SPSS for Windows step by step: A simple guide and reference* 15.0, Pearson Education, New Delhi

ITL Eduction Solution Limited (2012), *Introduction to information Technology*, Pearson, NewDelhi (ISBN 978-81-317-6029-1

B.A. ECONOMICS (HONS) 3rd Year

SEMSTER-V
ECO –DSEG14: RURAL DEVELOPMENT

External Marks: 80
Internal Marks: 20
Time: 3Hrs

Course Description :

The student will be able to understand the concept of Rural Development, Approaches and Strategies, analyse the implementation of major development and welfare programmes, identify the institutions involved in rural development and evaluate the concerns of rural development Information system

Instructions for the paper-setters and the candidates:

1. The question paper will consist of *nine* questions. The candidate shall attempt *five* questions in all. The Question No. 1 will be *compulsory*. The Candidate shall attempt *four* more questions selecting *at least one* from each *Unit. The paper will* carry 100 marks out of which 20 marks will be earmarked for internal assessment.
2. The **Compulsory Question No.1** will be short answer type questions containing five questions of equal marks (i.e.4,marks each) spread over the whole syllabus and answer to each question should not to be more than half page. Other questions will carry the 15 marks each.

Course Outline :

Unit I:

Introduction: Rural Development: Concept, Elements, Importance and Scope - Approaches: Sectoral, Area Approach, Target Group Approach, Participatory Approach, Integrated Approach - Strategies of Rural Development- Rural Management: Scope and Significance of Rural Management – Economic perspectives of Rural Development: Lack of access to assets, Micro finance, Capital market - Sectoral Issues in Rural development: Agriculture, Industries, Land Reforms

Unit II:

Institutions for Rural Development and Management: Structure, Functions and Role in Rural Development- National level Institutions: Planning Commission, Ministry of Rural Development, Ministry of Panchayati Raj, NIRD, CAPART and NABARD; State Level Institutions: State Planning Board, State Institute of Rural Development and Kerala Institute of Local Administration - District & Other Level Institutions: District Planning Committee; Panchayati Raj Institutions - Community Based Institutions – Scientific inputs and support from the Institutions like ICAR, ISRO, CSIR Institutes, etc.

Unit III:

Rural Development Information System (RDIS): Management Information System - Impact of MIS on organization - RDIS: RD professionals" responsibility in phase of RDIS development - RDIS Planning & RDIS Implementation - Emerging Trends in RDIS

Unit IV:

Major Development and Welfare Programmes Mahatma Gandhi National Rural Employment Guarantee Programme (MGNREGS) - Swarnajayanthi Gram Swarojgar Yojana / National Rural Livelihood Mission (NRLM) - Indira Awaas Yojana (IAY) - National Rural Health Mission (NRHM) - Total Sanitation Programme (TSP) - Swajaldhara - Backward Region Grant Fund (BRGF) –Pradhan Mantri Grameen Sadak Yojana (PMGSY) – Integrated Wasteland Development Programme (IWDP) -Provisions of Urban Amenities in Rural Areas (PURA) – PPP/CSR Initiatives in Rural Development

Recommended Readings

Prasad, B.K.(2003), *Rural Development: Concept, Approach and Strategy*, New Delhi: Sarup& Sons. Singh,Katar. (2009). *Rural Development – Principles, Policies and management*, New Delhi: Sage.

 Srivastava, Madhuri and Alok Kumar Singh (Eds.) (2008*), Rural development in India: Approaches, strategies, and programmes*, New Delhi: Deep and Deep Publications.

Sundaram, Satya. (2002), *Rural Development* ,Mumbai: Himalaya.

Government of India. (2012), *Greening Rural Development in India*, New Delhi: Ministry of Rural Development and UNDP.

Singh, Katar and RS Pundir. (2000), *Co-operatives and Rural Development in India*, IRMA. India Rural Development Report 2013-14, Hyderabad: Orient Blackswan.

B.A. ECONOMICS (HONS) 3rd Year

SEMSTER-V
ECO –DSEG15: MONEY AND BANKING

External Marks: 80
Internal Marks: 20
Time: 3Hrs

Course Description :

Money and Banking constitute important components towards understanding of economics. A clear understanding of the operations of money and banking and their interaction with the rest of the economy is essential to realize how monetary forces operate through a multitude channels- market, nonmarket, institutes and among others, the state. The operation of financial markets and their regulations are to be studied to appreciate their key-role in an economy, especially after the far reaching banking and financial sector reforms in India and elsewhere. The present course is designed to acquaint the students fully with the changing role of financial institutes in the process of growth and development.

Instructions for the paper-setters and the candidates:
1. The question paper will consist of *nine* questions. The candidate shall attempt *five* questions in all. The Question No. 1 will be *compulsory*. The Candidate shall attempt *four* more questions selecting *at least one* from each *Unit. The paper will* carry 100 marks out of which 20 marks will be earmarked for internal assessment.
2. The **Compulsory Question No.1** will be short answer type questions containing five questions of equal marks (i.e.4,marks each) spread over the whole syllabus and answer to each question should not to be more than half page. Other questions will carry the 15 marks each.

Course Outline :

UNIT-I

Definition of money, money and near money assets, supply of money: components, determinants- high powered money and money multiplier, measures of supply of money in India.

UNIT-II

Demand for money: classical theory, Keynes liquidity preference theory, and Friedman's restatement of quantity theory of money central banking: main functions, techniques of monetary management, and monetary policy of Reserve Bank of India.

UNIT-III

Commercial banking: main functions, major developments and reforms in Indian banking system since 1991.Non-banking financial institutions (NBFIS) – role and structure NBFIS in India.

UNIT-IV

International monetary fund (IMF) – its features and role, World Bank: features and role. Asian development bank: features and role.

Suggested Readings:

Diulio A. Eugene (latest Edition): *Theory and Problems of Money and Banking*, International Edition (Schaum's Outline Series)

Gupta, S. B (2004*): Monetary Planning in India*, S. Chand, New Delhi

Khanna, Perminder(2005): *Advanced Study in Money and Policy : Relevance in the Indian Economy*, Atlantic Publishers, New Delhi

Kulkarni, G (1999): *Modern Monetary Theory*, McMillan, New Delhi

Laidler, D. E. W (1977): *The Demand for Money: Theories and Evidence* ,Allied Publishers, New Delhi.

Bofinger Peter (2001): *Monetary Policy: Goals, Institutions, Strategy and Instrument*, Oxford University Press.

Government of India: Economic Survey (various issues)

External Marks: 80
Internal Marks: 20
Time: 3Hrs

Course Description :

This course examines sector-specific polices and their impact in shaping trends in key economic indicators in India. It highlights major policy debates and evaluates the Indian empirical evidence. In recent past India has launched different programs like Make in India, Skill India etc., the present course is designed to acquaint the students fully with the changing policy environment in the process of growth and development.

Instructions for the paper-setters and the candidates:
1. The question paper will consist of *nine* questions. The candidate shall attempt *five* questions in all. The Question No. 1 will be *compulsory*. The Candidate shall attempt *four* more questions selecting *at least one* from each *Unit. The paper will* carry 100 marks out of which 20 marks will be earmarked for internal assessment.
2. The **Compulsory Question No.1** will be short answer type questions containing five questions of equal marks (i.e.4,marks each) spread over the whole syllabus and answer to each question should not to be more than half page. Other questions will carry the 15 marks each.

Course Outline :

Unit I
Policies and performance in agriculture growth: pre-independent and post-independent agrarian structure, agriculture growth and productivity. Sustainable agricultural growth-concepts and constraints. Institutional set-up of land system and land reforms, green revolution and technological changes. Capital formation in agriculture; food security, agricultural pricing, food procurement and public distribution system.

Unit-II
Policies and performance in industry: structure and composition of industry– issues of concentration, large vs small industry– industrial location. Small scale reservation policy. Trends and patterns of industrial growth. Cottage industries; performance of public sector, privatization, industrial sickness, land acquisition, SEZ and industrialization foreign investment and competition policy, industrial policy, 1956 and1991.trends and performance in the development of service sector.

Unit III
Social and economic reforms(-MGNREGA, Make in India, GST, Digital India, Skill India, Beti Bachao- Beti Padhao Yojana, Swachh Bharat Mission, Startup India)—goals, constraints, and basic idea of policy framework.

Unit IV

Haryana economy-an overview: a macro glance at Haryana economy; social sector in Haryana- education, health, and nutrition. Haryana economy in relation to India and major states in recent decades, major issues in agriculture, forest and water resources, mining, industry and service sector.

Suggestered Reading

Shankar Acharya and Rakesh Mohan,(2011), India's Economy: Performance and Challenges, Oxford India Publication.
Shankar Acharya, Macroeconomic Performance and Policies since 2000, working paper , http://icrier.org/pdf/WorkingPaper225 .

Pulapre Balakrishnan, Ramesh Golait and Pankaj Kumar, 2008, ―Agricultural Growth in India Since 1991, *RBI DEAP Study no. 27*.

B.N. Goldar and S.C. Aggarwal, 2005, ―Trade Liberalisation and Price-Cost Margin in Indian Industries, *The Developing Economics*, September.

Mishra and Puri(2015)-Indian Economy,Kalyani Pub,New Delhi

Haryana Economic Surveys various issues

Haryana Development Reports various issues

B.A. ECONOMICS (HONS) 3rd Year
SEMSTER-VI
ECO–C16: INTRODUCTION TO ECONOMETRICS

External Marks: 80
Internal Marks: 20
Time: 3Hrs

Course Description :

Application of economic theory needs a reasonable understanding of economic relationship and statistical methods. The econometric theory thus becomes a very powerful tool for understanding of applied economic relationships and for meaningful research in economics. This paper accordingly is devoted to equip the students with basic theory of econometrics and relevant application of the methods.

Instructions for the paper-setters and the candidates:

1. The question paper will consist of *nine* questions. The candidate shall attempt *five* questions in all. The Question No. 1 will be *compulsory*. The Candidate shall attempt *four* more questions selecting *at least one* from each *Unit. The paper will* carry 100 marks out of which 20 marks will be earmarked for internal assessment.
2. The **Compulsory Question No.1** will be short answer type questions containing five questions of equal marks (i.e.4,marks each) spread over the whole syllabus and answer to each question should not to be more than half page. Other questions will carry the 15 marks each.

Course Outline :

UNIT-I

Nature and meaning of econometric; difference between mathematical economics, statistics and econometrics; goals of econometrics. Simple linear regression model (two variables): sources of disturbance terms, assumptions, least squares estimators and their properties; Gauss Markov's theorem.

UNIT-II

Testing of hypothesis (simple linear regression model): basic concepts; type-I and type-II errors. Simple and composite hypothesis, t-test and F- test. Estimation of quadratic, semi – log and double log functions; simple and compound rates of growth (applications).

UNIT-III

General linear regression model: definition, assumptions, least – squares estimation. Testing significance of regression coefficients, concepts of R^2 and adjusted R^2 . Dummy variables: the dummy variable trap. Interpretation of slope and intercept

UNIT-IV

Problems of Multicollinearity, Autocorrelation and Hetroscedasticity: nature, consequences, tests and remedies (elementary treatment).

Suggested Readings:

Gujarati, Damodar(2007): *Basic Econometrics,* McGraw Hill, New Delhi.

Kelejian and Oats: *Introduction to the Theory of Econometrics*.

Koutsoyiannis, A.: *Theory of Econometrics* (1978), Macmillan.

Intrilligator, M. D.(1978): *Econometric Models and Applications*, Prentice Hall

Kendall, M. G. &A. Sturat (eds.): *Advanced Theory of Statistics*, Vols. I & II,   Griffin and Co.,London.

Maddala, G. S.(1977): *Econometrics*, New Delhi, McGraw Hill

B.A. ECONOMICS (HONS) 3rd Year
SEMSTER-VI
ECO –DSEG21: FINANCIAL ECONOMICS

External Marks: 80
Internal Marks: 20
Time: 3Hrs

Course Description :

This course introduces students to the economics of finance. Some of the basic models used to benchmark valuation of assets and derivatives are studied in detail; these include the CAPM, and the Binomial Option Pricing models.

Instructions for the paper-setters and the candidates:
1. The question paper will consist of *nine* questions. The candidate shall attempt *five* questions in all. The Question No. 1 will be *compulsory*. The Candidate shall attempt *four* more questions selecting *at least one* from each *Unit. The paper will* carry 100 marks out of which 20 marks will be earmarked for internal assessment.
2. The **Compulsory Question No.1** will be short answer type questions containing five questions of equal marks (i.e.4,marks each) spread over the whole syllabus and answer to each question should not to be more than half page. Other questions will carry the 15 marks each.

Course Outline :

Unit I

Investment theory and structure of interest rates: introduction to financial economics, time value of money: future value, present value, future value of an annuity, present value of annuity, present rate of perpetuity. Investment criteria: net present value, benefit cost ratio, internal rate of return, modified internal rate of return.

Unit II

Valuation of bonds and securities: fundamentals of valuation of securities: valuation of bonds and stocks; bond yield, yield to maturity. Equity valuation: dividend discount model, the P/E ratio approach; irrelevance of dividends: Modigliani and Miller hypothesis.

UNIT III

Risk and return: types of risk, historical returns and risk, computing historical returns, average annual returns, variance of returns, measurement of risk and return of an asset, measurement of risk and return of a portfolio, determinants of beta, risk-return trade off.

UNIT IV

Capital Asset Pricing Model: the capital market line; the capital asset pricing model; the beta of an asset and of a portfolio; security market line. Derivative markets: an introduction to financial derivatives- types and uses of derivatives; forward contracts: determination of forward prices, futures contract: theories of future prices- the cost of carry model, the expectation model, capital asset pricing model.

Suggested Reading

L. M. Bhole and J. Mahukud, *Financial Institutions and Markets,* Tata McGraw Hill, 5th edition,2011.

Hull, John C., *Options, Futures and Other Derivatives*, Pearson Education, 6th edition,2005.

David G. Luenberger, *Investment Science*, Oxford University Press, USA, 1997.

Thomas E. Copeland, J. Fred Weston and Kuldeep Shastri*, Financial Theory and Corporate Policy*, Prentice Hall, 4th edition, 2003.

Richard A. Brealey and Stewart C. Myers, *Principles of Corporate Finance*, McGraw-Hill, 7th edition, 2002.

Stephen A. Ross, Randolph W. Westerfield and Bradford D. Jordan, *Fundamentals of Corporate Finance.* McGraw-Hill, 7th edition, 2005.

External Marks: 80
Internal Marks: 20
Time: 3Hrs

Course Description :

This paper aims to make aware students about the importance of environment in economics and vice-versa. It helps them to know the ways of sustaining our resources by optimally allocating them for future use.

Instructions for the paper-setters and the candidates:
1. The question paper will consist of *nine* questions. The candidate shall attempt *five* questions in all. The Question No. 1 will be *compulsory*. The Candidate shall attempt *four* more questions selecting *at least one* from each *Unit. The paper will* carry 100 marks out of which 20 marks will be earmarked for internal assessment.
2. The **Compulsory Question No.1** will be short answer type questions containing five questions of equal marks (i.e.4,marks each) spread over the whole syllabus and answer to each question should not to be more than half page. Other questions will carry the 15 marks each.

Course Outline :

UNIT-I

Introduction to environmental economics- introduction; the economy and the environment: inter-linkages; Features and Components of Environment, Environment as necessity and luxury. Population and Environment linkages, Environment and Development.

UNIT-II

Economics of pollution- Meaning and types of Pollution, Causes of pollution, optimal level of pollution; market solutions and government actions. Sustainable Development- Meaning, features, needs and indicators.

UNIT-III

Natural Resources- Types, classification, scarcity and its measurements, Tragedy of commons, Management of common property Resources.

Environment and market failures- market failures; problem of externalities; public goods and public bad, non-convexities; asymmetric information.

UNIT-IV

Environment Protection in India- Meaning and Need of Environment Protection, Environmental Policy Framework in India, Major Environmental Laws in India, National Environment policy in India.

Suggested Readings:

Goodstein, E.S.(2002): *Economics and the Environment* (3 rd ed.) Prentice Hall.

Hanley, N., Shogern, J.F and White, B(1977): *Environmental Economics in Theory and Practice*, Macmillan

Sankar, U. (ed) James, A.J., M.N.: *Environmental Economics*, Oxford University Press, New Delhi.

Murty and Smita Mishra (2006): Murty and Smita Mishra (1999), *Economics of Water Pollution- The Indian Experience*, Oxford University Press, New Delhi

Varian. Hal R.,(2006): *Intermediate Micro-Economics- A Modern Approach*, 7 th ed., East-West Press.

Cherry, S.N. and Vyasual, Vinod(2000): *Environmental Management- an Indian Perspectives*, Macmillan, New Delhi.

B.A. ECONOMICS (HONS) 3rd Year
SEMSTER-VI
ECO –DSEG23: AGRICULTURAL ECONOMICS

External Marks: 80
Internal Marks: 20
Time: 3Hrs

Course Description :

Instructions for the paper-setters and the candidates:

1. The question paper will consist of *nine* questions. The candidate shall attempt *five* questions in all. The Question No. 1 will be *compulsory*. The Candidate shall attempt *four* more questions selecting *at least one* from each *Unit. The paper will* carry 100 marks out of which 20 marks will be earmarked for internal assessment.
2. The **Compulsory Question No.1** will be short answer type questions containing five questions of equal marks (i.e.4,marks each) spread over the whole syllabus and answer to each question should not to be more than half page. Other questions will carry the 15 marks each.

Course Outline :

Unit-I

Economics of agriculture: its nature and scope, interdependence between agriculture and industry. Nature and problems of agricultural development in developing countries.

Unit-II

Transforming Traditional Agriculture : Ranis & Fei, Schultz and Meller's Models, Lewis model of unlimited supplies of labour.

Unit-III

Land reforms and system of farming. Farm size and productivity relationship. Agricultural price policy, agricultural taxation (all these topics should deal with special reference to india).

Unit-IV

New agricultural strategy and green revolution. Problems of small farmers and agricultural labourers. Agricultural credit, marketable and marketed surplus. Surplus and its utilization. (all these topics would deal with special reference to India).

Recommended Readings :

R. N. Soni : *Leading Issues in Agricultural Economics*, Sohan Lal Nagin Chand & Co., Jalandhar, 1992.

Eicher and L. Witt : *Agriculture in Economic Development*, Vera & Co., Bombay, 1970. 3 Charan D. Wadhva : Some Problems of India's Economic Policy, Tata McGraw Hills, Bombay, 1973,

M. Khusro : *Readings in Agricultural Development*, Allied, Bombay, 1968,

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

T. W. Schultz : *Transforming Traditional Agriculture*, Lyall Book Depot, Ludhiana, 1970.

J. W. Meller : *The Economics of Agricultural Development*, Vera & Co., Bombay, 1966.

Michael P. Todaro *: Economic Development in the Third World*, Orient Longman, New Delhi, 1987.

Francis R. Frankel : *India's Green Revolution – Economic Gains and Political Costs*, Oxford University Press, Bombay, 1971 .

S. K. Misra & V. K. Puri *: Indian Economy*, Himalaya Publishing House, Bombay, 1993. 11 Amarjit Singh & A. N. Sadhu : *Agricultural Problems in India*, Himalaya Publishing House, Bombay, 1986.

External Marks: 80
Internal Marks: 20
Time: 3Hrs

Course Description :

The importance of education and health in improving well-being is reflected in their inclusion among the Millennium Development Goals adopted by the United Nations member states, which include among other goals, achieving universal primary education, reducing child mortality, improving maternal health and combating diseases. This course provides a microeconomic framework to analyze, among other things, individual choice in the demand for health and education, government intervention and aspects of inequity and discrimination in both sectors. It also gives an overview of health and education in India.
Course Outline

Instructions for the paper-setters and the candidates:
1. The question paper will consist of *nine* questions. The candidate shall attempt *five* questions in all. The Question No. 1 will be *compulsory*. The Candidate shall attempt *four* more questions selecting *at least one* from each *Unit. The paper will* carry 100 marks out of which 20 marks will be earmarked for internal assessment.
2. The **Compulsory Question No.1** will be short answer type questions containing five questions of equal marks (i.e.4,marks each) spread over the whole syllabus and answer to each question should not to be more than half page. Other questions will carry the 15 marks each.

Course Outline :

Unit-I
Role of health and education in human development, importance in poverty alleviation; health and education outcomes and their relationship with macroeconomic performance.

Unit-II
Microeconomic foundations of health economics demand for health; uncertainty and health insurance market; alternative insurance mechanisms; market failure and rationale for public intervention; equity and inequality.

Unit-III
Evaluation of health programs costing cost, effectiveness and cost-benefit analysis; burden of disease. Health sector in India: an overview health outcomes; health systems; health financing.

Unit-IV
Education: investment in human capital rate of return to education: private and social; quality of education; signalling or human capital; education sector in India: an overview literacy rates, school participation, school quality measures.

Sugessted Readings:

William, Jack, *Principles of Health Economics for Developing Countries*, World 24 Bank Institute Development Studies, 1999.

World Development Report, *Investing in Health*, The World Bank, 1993.

Ronald G., Ehrenberg and Robert S., Smith, *Modern Labor Economics: Theory and Public Policy*, Addison Wesley, 2005.

ECO–DSEG25: Economics of Infrastructure

External Marks: 80
Internal Marks: 20
Time: 3Hrs

Course Description :

The contents of the paper 'Economics of Infrastructure' exposes the student wholly to issues involved in development of infrastructure in developing countries like India.

Instructions for the paper-setters and the candidates:

1. The question paper will consist of *nine* questions. The candidate shall attempt *five* questions in all. The Question No. 1 will be *compulsory*. The Candidate shall attempt *four* more questions selecting *at least one* from each *Unit. The paper will* carry 100 marks out of which 20 marks will be earmarked for internal assessment.
2. The **Compulsory Question No.1** will be short answer type questions containing five questions of equal marks (i.e.4,marks each) spread over the whole syllabus and answer to each question should not to be more than half page. Other questions will carry the 15 marks each.

Course Outline :

Unit 1:

 Introduction Infrastructure and economic development — Infrastructure as a public good; Social and physical infrastructure; Economies of scale of Joint supply; Marginal Cost Pricing vs. other methods of pricing in public utilities; Cross-subsidization — free prices, equity and efficiency.

Unit 2:

 Transport Infrastructure- demand for transport infrastructure, Models of Freight and Passenger Demand. Principle of Pricing. Special Problems of Individuals Modes of Transport; Inter-modal condition in the Indian Situation.

Unit 3:

Communications- Need and Role of Communication in Development, Rate-making in telephone utilities. principles of decreasing costs in telephone industry, Communication Sector in India- Challenges, opportunities and recent developments.

Unit 4:

Enegery- Primacy of Energy in the process of economic development, Electricity, Gas and Water Supply, Bulk Supply and Pricing of Electricity. Factors Determining Demand for Energy. Financing Water Utilities. Urban and Rural Water Supply.

Readings: Crew, M.A. and P.R. Kleindorfer (1979), Public Utility Economics, Macmillan, London. Indian Council of Social Sciences Research (ICSSR) (1976), Economics of Infrastructure, Vol. VI, New Delhi. National Council of Applied Economic Research (NCAER) (1996), India Infrastructure Report : Policy Implications for Growth and Welfare, NCAER, New Delhi. Parikh, K.S. (Ed.) (1997), India Development Report 1997, Oxford, New Delhi. Parikh, K.S. (Ed.) (1999), India Development Report — 1999-2000, Oxford, New Delhi. Turvey, R. (Ed.) (1968), Public Enterprises, Penguin, Harmondsworth, London