

**ANNAMALAI UNIVERSITY**  
**DEPARTMENT OF ECONOMICS**  
**Choice Based Credit System**  
**M.A. ECONOMICS**  
(Effective from 2015-2016)  
REGULATIONS

For the Faculties of Arts ,Science, Indian Languages and Education ( except for the Department of Education).

**Master's Programme**

The Master's Programme will consist of

- i. Core courses which are compulsory for all students.
- ii. Elective courses which students can choose from amongst the courses approved within the Department or in other Departments of the Faculty and other Faculties.
- iii. The Elective subjects will be allotted after counselling by committee of the Head of the Department under the Chairmanship of the Dean.
- iv. Dissertation/ Project work / Practical training/ Field work, can be done in an organization (Government, Industry, Firm, Public Enterprise etc.) approved by the concerned Department.
- v. A Course is divided into five units to enable the students to achieve modular and progressive learning.

**SEMESTERS**

An academic year is divided into two Semesters, Odd Semester and Even Semester. The normal Semester periods are:

**Odd Semester** : July to November ( 90 working days)

**Even Semester** : December to April ( 90 working days)

**CREDITS**

The term credit is used to describe the quantum of syllabus for various courses in terms of hours of study. It indicates differential weightage given according to the contents and duration of the courses in the curriculum design.

Minimum credit requirement for a two years Master's Programme shall be 90. In Arts Faculty, there will be 78 credits for core courses and 12 credits for elective courses.

**COURSES AND COURSE WEIGHT**

Each course may consist of lectures / tutorials / laboratory work / Seminars / project work / practical training report / Viva voce etc.

Core and Elective courses may carry different weight. For example, a course carrying one credit for lectures will have instruction of one period per week during the semester. If three hours of lectures is necessary in each week for that course then 3 credits will be weightage . In each of the courses, credits will be assigned on the basis of the lectures/ tutorials / laboratory work and other forms of learning in a week schedule:

- i. One credit for each lecture period per week.
- ii. One credit for each tutorial per week.

- iii. One credit for every three periods of laboratory or practical work per week.
- iv. One credit for every two period seminar.
- v. Five credits for project work/ dissertation.

### **Eligibility for Admission**

A pass in any undergraduate Degree.

### **DURATION**

Two academic years- full Time

### **MEDIUM OF INSTRUCTION: English**

### **ATTENDANCE**

Every teaching faculty handling a course shall be responsible for the maintenance of attendance register for candidates who have registered for the course. The instructor of the course must intimate the Head of the Department at least Seven Calendar days before the last instruction day in the semester about the particulars of all students who have secured an attendance of less than 75%. A candidate who has attendance less than 75% shall not be permitted to sit for the End-Semester examination in the course in which the short fall exists.

### **Examination**

There will be two internal assessments and one End – Semester examination during each semester.

Internal Assessment – I will be held after 35 working days and Internal Assessment –II will be held after 70 working days.

**Internal Assessment –I** will be combination of a variety of tools such as class test, assignment, and paper presentation that would be suitable to the course. This requires an element of openness. The students are to be informed in advance about the nature of assessment and the procedures. However the tests are compulsory. Test I may be for one hour duration. The pattern of question paper will be decided by the respective Faculty. Internal Assessment – I will carry 10% of marks of the entire course.

**Internal Assessment – II** will be held after 70 working days for the syllabi covered between Seventh and Eleventh weeks. It will be conducted with a variety of assessment tools. It will also have an element of openness. The students are to be informed in advance about the nature of assessment and the procedures. However the tests are compulsory. Test II may be for two hours duration. The pattern of question paper will be decided by the respective Faculty. Internal Assessment -II carries 10% of marks of the entire course.

There will be one end semester examination of 3 hours duration in each course. The End Semester Examination will cover all the syllabus of the course for 75% of marks.

### **Evaluation**

Evaluation will be done on a continuous basis. Evaluation may be by objective Type Questions, Quiz, Short Answers, Essays or a combination of these, but at the End Semester Examination it has to be a written examination.

The performance of a student in each course is evaluated in terms of Percentage of marks (PM) with a provision for conversion to Grade Point (GP). The sum total performance in each semester will be rated by GPA while the continuous performance from the 2<sup>nd</sup> Semester onwards will be marked by (OGPA).

### **Marks and Pass Minimum**

A Student cannot repeat the Internal Assessments I and II. However, if for any compulsive reason the students could not attend the test, the prerogative of arranging a special test lies with the teacher in consultation with the Head of Department.

A minimum of 50% marks in each course is prescribed for a pass. A student has to secure 50% minimum in the End Semester Examination.

A candidate who has not secured a minimum of 50% of marks in a course shall be deemed to have failed in that course.

The Student can repeat the End Semester Examination when it is offered next in the subsequent odd / even semester till the regulations are in force. However, a candidate cannot move to the next semester if he/she has more than six papers as arrears at any point of time.

A candidate who has secured a minimum of 50 marks in all the courses prescribed in the programme and earned a minimum of 90 credits will be considered to have passed the Master's Programme.

### **Grading**

A ten point rating scale is used for the evaluation of the performance of the student to provide letter grade for each course and overall grade for the Master's Programme.

<b>Marks</b>	<b>Grade Point</b>	<b>Letter Grade</b>	<b>Class</b>
90+	10	S	Exemplary
85 – 89	9.0	D++	Distinction
80 – 84	8.5	D+	Distinction
75 – 79	8.0	D	Distinction
70 – 74	7.5	A++	First Class
65 – 69	7.0	A+	First Class
60 – 64	6.5	A	First Class
55 – 59	6.0	B	Second Class
50 – 54	5.5	C	Second Class
49 or Less	–	RA	Reappear

The Successful candidates are classified as follows;

I Class – 60 % Marks and above in overall percentage of Marks (OPM)

II Class – 50 – 59% Marks in overall percentage of marks.

Candidates who obtain 75% and above but below 90% of marks (OPM) shall be deemed to have passed the examination in FIRST CLASS (Distinction) provided he / she passes all the courses prescribed for the programme at the first appearance.

Candidates who obtain 90% and above (OPM) shall be deemed to have passed the examination in FIRST CLASS (Exemplary) provided he / she passes all the courses prescribed for the programme at first appearance.

The maximum of 100 marks to each course is distributed as 75 marks for End semester Examination and 25 marks for Internal Assessment. For Internal Assessment the break up of 25 marks shall be as follows:

(i) Test	(I &II)	---	10 Marks
(ii) Assignments		---	5 Marks
(iii) Case Study / Seminar		---	5 Marks

(iv) Attendance --- 5 Marks  
( 90% and above -5; 80-89 % -4; 75-79% - 3 marks)

### **Course-wise Letter Grades**

The percentage of marks obtained by a candidate in a course will be indicated in a letter grade.

A student is considered to have completed a course successfully and earned the credits if he / she secures an overall letter grade other than RA. A letter grade RA in any course implies a failure in that course. A course successfully completed cannot be repeated for the purpose of improving the Grade Point.

The RA grade once awarded stays in the grade of the student and is not deleted even when he / she completes the course successfully later. The Grade acquired later by the student will be indicated in the grade sheet of the odd / even semester in which the candidate has appeared for clearance of the arrears.

If a student secures RA grade in the Project Work/ Field work / Practical Work / Dissertation , either he / she shall improve it and resubmit it if it involves only rewriting incorporating the clarifications of the evaluators or he / she can re-register and carry out the same in the subsequent semesters for evaluation.

### **WITHDRAWAL FROM THE COURSE BY THE STUDENT**

Within 2 weeks from the date of commencement of the Semester.

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**DEPARTMENT OF ECONOMICS**  
**M.A. ECONOMICS – Two Year PG PROGRAMME**  
**2015-2016**

Semester	Course No.	Course Code	Course Title	Course Type	Credit	University Exam. Marks	Internal Marks	Total Marks
I	1.	ECOC 101	1 Advanced Microeconomics	Core	5	75	25	100
I	2.	ECOC 102	2 Macroeconomic Analysis	Core	5	75	25	100
I	3.	ECOC 103	3 Research Methodology and Statistical Applications	Core	5	75	25	100
I	4.	ECOC 104	4 Economics of Agriculture	Core	4	75	25	100
I	5.		5 Elective Course	Elective	3	75	25	100
			<b>Total</b>		<b>22</b>	<b>375</b>	<b>125</b>	<b>500</b>
II	6.	ECOC 201	1 Welfare Economics	Core	5	75	25	100
II	7.	ECOC 202	2 Monetary Theory and Policy	Core	5	75	25	100
II	8.	ECOC 203	3 Mathematical Economics	Core	5	75	25	100
II	9.	ECOC 204(1) ECOC 204(2)	4 Managerial Economics OR Industrial Economics	Core	4	75	25	100
II	10.		5 Elective Course	Elective	3	75	25	100
			<b>Total</b>		<b>22</b>	<b>375</b>	<b>125</b>	<b>500</b>
III	11.	ECOC 301	1 Fiscal Theory and Policy	Core	5	75	25	100
III	12.	ECOC 302	2 International Trade and Finance (International Economics)	Core	5	75	25	100
III	13.	ECOC 303	3 Development Economics	Core	4	75	25	100
III	14.	ECOC 304(1) ECOC 304 (2)	4 Human Resource Development and Policy OR Urban and Transport Economics	Core	4	75	25	100
III	15.		5 Elective Course	Elective	3	75	25	100
III	16.	SOSC 306	6 Soft Skills	Core	3	75	25	100
			<b>Total</b>		<b>24</b>	<b>450</b>	<b>150</b>	<b>600</b>
IV	17.	ECOC 401	1 Environmental Economics	Core	5	75	25	100
IV	18.	ECOC 402	2 Indian Economic Development & Policy	Core	5	75	25	100
IV	19.	ECOC 403	3 Computer Applications in Economics	Core	4	75	25	100
IV	20.	ECOC 404	4 Project and Viva -voce	Core	5	75	25	100
IV	21.		5 Elective Course	Elective	3	75	25	100
			<b>Total</b>		<b>22</b>	<b>375</b>	<b>125</b>	<b>500</b>
			<b>GRAND TOTAL</b>		<b>90</b>	<b>1575</b>	<b>525</b>	<b>2100</b>

**Note:** An Elective Course has to be chosen by a student as per his/her choice. Elective Courses offered by various Departments for the Two Year PG Programmes from Semester I to Semester IV are enclosed.

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<b>Code</b>	<b>I Semester</b>	<b>credit</b>
ECO-105-1	Economics of Climate Change (or)	3
ECO-105-2	Indian Economic Development	
	<b>II Semester</b>	
ECO-205-1	Urban Economics (or)	3
ECO-205-2	Economics in Everyday Life	
	<b>III Semester</b>	
ECO-305-1	Economics of Natural Disasters (or)	3
ECO-305-2	Human Resource Development	
	<b>IV Semester</b>	
ECO-405-1	Labour Economics and Industrial Relations (or)	3
ECO-405-2	Environmental Audit	

## ECOC-101 ADVANCED MICROECONOMICS

### Objectives

1. To equip the students in micro economic theories with graphic illustrations.
2. To develop the skills of application of the principles to the real world problems.

### Unit -I: Market Theories-I

1. Perfect competition – Short run and long run equilibrium of the firm and industry – Price and output determination – Optimum firm.
2. Monopoly – Short run and long run equilibrium - Price discrimination, monopoly control, and regulation – Contestable Market.
3. Monopolistic competition–Chamberlin Model- selling costs - Excess capacity.

### Unit -II: Market Theories-II

1. Oligopoly – Non-collusive Models - Cournot - Bertrand – Chamberlin – Edgeworth – Sweezy - Stackelberg
2. Oligopoly - Collusive Models - Cartels and mergers - Price leadership - Base point price system
3. Monopsony – Price and output determination – Workable competition.

### Unit -III: Alternative Theories of Firm

1. Baumol's sales revenue maximization model
2. Williamson's model of managerial discretion - Marris model of managerial enterprise
3. Full cost pricing rule - Bain's limit pricing theory - Sylos-Labini Model
4. Behavioural model of the firm - Cyert and March

### Unit -IV: Distribution Theories

1. Neo-classical approach – Marginal productivity theory; Product exhaustion theorem; Hick's technical progress.
2. Modern theory of distribution – Factor Pricing in imperfect product and factor markets.
3. Determination of Wages – Labour supply and wage determination – Role of trade unions and collective bargaining

### Unit -V: Economics of Information

1. Informational asymmetry – Market for lemons.
2. Adverse selection – Insurance market and adverse selection – Solution to principal agent problem.
3. Hidden action(Moral Hazard) - Signaling and Screening

### Text Books

1. Ahuja H.L (2004) *Advanced Economic Theory* (Sultan Chand Co., New Delhi).
2. Hal R. Varian (2004), *Intermediate Micro Economics* (East-West Press: New Delhi).
3. Jhingan. M.L (2004) *Micro Economic Theory*, (Vrinda Publications- Delhi).
4. Ruffin Roy. J (1992) *Intermediate Micro Economics* (Harper & Collins Publishers- New york).
5. Sundaram K.P.M. and Vaish M.C. (2004), *Micro Economic Theory* (S.Chand

### Reference Books

1. Koutsyiannis A. (1978) *Modern Micro Economics*, (Macmillan- London).
2. Ferguson C.E. (1970) *Micro Economic Theory*, (Homewood, U.S.A).
3. Gisser Michall (1978) *Introduction to Price Theory*, (International Text Books Co.),
4. Salvatore, Dominick (2004), *Micro Economic Theory* (Tata Mcgraw Hill-New Delhi).
5. Watson (1975) *Price Theory and its uses*, ( Scientific Book Company , Calcutta).

## ECOC-102 - MACROECONOMIC ANALYSIS

### Unit-1: Modern Keynesian Macroeconomics:

1. Central propositions of Keynesian macroeconomics
2. Mundell-Fleming model
3. Clower's dual decision hypothesis, Keynesian macroeconomics and price expectations
4. Minsky's financial instability hypothesis
5. Post Keynesian theory: the "principle of effective demand" as basis of macroeconomic theory; non-neutrality of money; "Keynesian uncertainty" and decision making environments;
6. The Great Recession and the revival of Keynesian macroeconomics

### Unit-2: The New Classical Macroeconomics

1. Rational expectations hypothesis
2. Continuous market clearing model
3. Aggregate supply hypothesis
4. Policy implications of new classical approach

### Unit-3: Real Business Cycle Theory

1. Stylized facts of the business cycle
2. The structure of a real business cycle model
3. Technology shocks and fluctuations in output and employment
4. The "calibration" strategy
5. Policy implications of real business cycle theory

### Unit-4: New Keynesian Macroeconomics

1. Core propositions of new Keynesian macroeconomics
2. Nominal wage and price rigidities
3. Dornbusch's overshooting model
4. Real price and real wage rigidities
5. new Keynesian business cycle theory
6. Policy implications of new Keynesian macroeconomics

### Unit-5: Austrian Macroeconomic Theory

1. "Capital based" macroeconomics framework
2. Saving induced capital restructuring
3. The Austrian theory of inflation and deflation
4. The Austrian theory of business cycle
5. Policy implications of Austrian theory

### Textbook:

1. *Modern Macroeconomics : Its origins, development and Current State* by Brian Snowden and Howard R Vane ( Cheltenham and Massachusetts : Edward Elgar 2005

### Supplementary Readings:

1. "A Macroeconomics Reader" Edited by Brian Snowden and Howard R Vane ( London and New York: Routledge, 1997.), chapters 2, 12, 14, 17, 19, 22
2. "The Macroeconomist as Scientist and Engineer," by Gregory N Mankiw, N. (Cambridge, Massachusetts: National Bureau of Economic Research, 2006, Working Paper 12349.)
3. "Macroeconomics Meets Hyman P Minsky: The Financial Theory of Investment" by L Randall Wray and Eric Tymoigne ( New York, Levy Economics Institute , 2008, Working Paper 543)



## ECOC-103 RESEARCH METHODOLOGY & STATISTICAL APPLICATIONS

### Unit – I: Research Methods in Economics

1. Nature of Social Science Research – Research Methods in Social Science – Formulating the problem.
2. Types and Sources of Hypothesis – Characteristics of a Good hypothesis.
3. Components and types of research design – Collection of data – sources and methods.
4. Presentation of results – Format of a Report.

### Unit – II: Sampling and Data collection

1. Sampling; Need, types, Probability sampling, random, systematic, stratified, multistage or cluster sampling, Non Probability sampling; Purposive Judgment, quota and snowball sampling
2. Data collection; Primary and Secondary data; NSS and censuses data Methods of data collection:
3. Tools of data collection; schedule and questionnaire:

### Unit – III: Data Processing and Presentation

1. Processing and analysis of data: Editing, coding and tabulation; use of computers in social science research
2. Diagrammatic and graphic representation of data
3. Interpretation of results and Report writing – Preparation of Project Proposals.

### Unit – IV: Statistical Inferences

1. Census Versus sampling -Random and Non-Random sampling Techniques.
2. Estimation – Point and interval estimation – Statistics and Parameter – Standard Error – Confidence interval.
3. Null and Alternative hypothesis – Type I Error and Type II Error, Level of Significance – Critical region – Steps in Testing of Hypothesis.

### Unit – V: Large and small Sample Tests

1. Properties and uses of Normal Distribution – Standard normal ‘Z’ Statistic.
2. Z-Test of Significance of proportions, means and Correlation.
3. ‘t’ Test for sample mean and Equality of mean – Paired ‘t’ Test.
4. Chi-Square Test for Association of Attributes.

### Text Books

1. C.R. Kothari (2002), Research Methodology Vikas publishing House, New Delhi.

### Reference Books

1. Goode W. J and Hatt: (1952), *Methods in Social Research*, Mcgraw Hill Book Co, Tokyo.
2. Kenneth. D, and Bailey: (1962), *Methods of Social Research*, Longman’s Green Co, New York.
3. Enhance. D.N, *Fundamentals of Statistics*: (1973), Kitab Mahal, Allahabad.
4. Gupta. C.B: (1998), *An Introduction to Statistical Methods*, Vikas publishing House, New Delhi.

## ECOC – 104 ECONOMICS OF AGRICULTURE

### Objectives

1. To make the students aware of the significance of agriculture in the development scenario of the nation.
2. To improve the conditions of agriculture for accelerating the pace of agricultural development in India.

### Unit-I: Introduction

1. Scope and Significance of Agriculture
2. Agriculture and Industry - A Comparison
3. Role of Agriculture in India's Development
4. Inter-Sectoral Linkage - An Overview

### Unit-II: Agricultural Production and Productivity

1. Production Function Analysis - Relevance to Farm Production Economics.
2. Productivity Trends; Low production and Productivity: Causes, Consequences and Measures.
3. Size - Efficiency relations in Indian agriculture - A.K. Sen's Hypothesis.
4. Role of Technology in Agriculture - Structural Changes in Agriculture.

### Unit-III: Agricultural Labour

1. Agricultural Labour: Types – Supply of Labour – Problems
2. Rural Unemployment: Types, consequences and remedial measures.
3. Minimum wages for agricultural workers - An evaluation.
4. Poverty Eradication programmes – Recent Wage and Self-Employment Programmes

### Unit-IV: Agricultural Finance and Capital

1. Agricultural Finance: Meaning, Nature, Types, Sources and Problems of Agricultural Finance.
2. Co-operatives in Rural Finance.
3. Role of Commercial Banks and NABARD in Rural Finance.
4. Farm Capital - Meaning, Types, and Marginal Efficiency of Farm Capital and Capital formation in agriculture.

### Unit-V: Agricultural Policy

1. Agricultural Price policy - Objectives, instruments and impact.
2. Economic Reforms and Agricultural policy – WTO and Agriculture
3. Agricultural Taxation and its relevance.

### Text Books

1. Ashok Rudra (1982). *Indian Agricultural Economics: Myths and Realities* (Allied publishers, New Delhi)
2. Dantwala M.L (ed) (1991). *Indian Agricultural Development since Independence*(Oxford and IBH Publishing company private limited, New Delhi).
3. Vasant Desai B.P (1996). *Agricultural Economics, Rural development* (Jai Prakash North, Meerut)

### Reference Books

1. Hanumantha Rao C.H. (1975). *Technological changes and distribution of grains in India agriculture* (Macmillan, New Delhi).
- Ruddar Datt and K.P.M. Sundharam (2001). *Indian Economy* [S.Chand and Ltd., RamNagar. New Delhi]



## ECOC-201 WELFARE ECONOMICS

### Objectives

1. In this course students will acquire the skills to normatively evaluate economic policies and think deeply about important social issues such as gender equity, income distribution and poverty.

### Unit -1: Introduction

1. Positive and normative economics, welfare economics as a normative study-Preference orderings -The utility function: properties of a utility function
2. Interpersonal comparisons of utility: degrees of interpersonal comparability
3. Measurability of welfare: a) Ordinal measure b) Cardinal measure: interval scale and ratio scale, Neumann-Morgenstern cardinal Index; c) Hicks's four measures of consumers' surplus
4. Social welfare functions: a) the concept of a social welfare function b) Types of social welfare functions, utilitarian and Rawlsian SWFs

### Unit – II: Pareto Criterion and Compensation Tests

1. The Pareto principle and assumptions underlying pareto optimality-Conditions for Pareto optimality: efficiency in exchange, efficiency in production and efficiency in product-mix, Edgeworth Box Diagrams.
2. The two fundamental theorems of welfare economics and policy implications of the theorems
3. Theory of second best- Critical evaluation of pareto criterion
4. Compensation tests : a) the compensation criteria of Kaldor and Hicks ;b) Scitovsky paradox and Scitovsky double criterion; c) Little's criterion

### Unit-III: Social Choice

1. Bergson-Samuelson social welfare function
2. The preference definition of well-being, properties of the preference definition
3. Arrow's impossibility theorem -Illustration of Arrow's theorem with reference to the method of majority decision, unanimity rule and Borda count -Resolving Arrow's paradox: single peaked preferences
4. Sen's "paretian liberal" theorem

### Unit-IV : Non-Preference Theories of Welfare

1. Limitations of the preference definition of welfare
2. Utilitarianism: a) utility as basis of defining well-being; b) properties of utilitarian definition: anonymity, neutrality and consequentialism; c) criticism
3. Rawlsian welfare theory: a) "primary goods" definition of well-being; b) the maximin principle; c) Limitations
4. Sen's capability approach: a) "capabilities" , "functionings" and well-being; b) "well-being" and "agency" ; c) positive freedom and negative freedom; d) criticisms.

### Unit –V: Social Issues

1. Income distribution and welfare: Atkinson theorem
2. The capabilities approach to poverty
3. Welfare theory and gender equity
4. Freedom and well-being

### Textbooks

1. Boadway, Robin and Neil Bruce (1984): *Welfare Economics* Oxford: Basil Blackwell

2. Ng, yew-Kwang ( 1983) *Welfare Economics: Introduction and Development of Basic Concepts* London: Macmillan

**Reference Books**

1. Amiel, Y and Cowell,F.A (1999): *Thinking About Inequality* Cambridge: Cambridge University Press, chapters 2 and 5
2. Sen Amartya (2004) *Inequality Reexamined* Delhi:OUP, chapters 3,4,and 8
3. Sen, Amartya and James Foster (1997) *On Economic Inequality* Delhi:OUP, chapter 1 and 2
4. Sen, Amartya , “The Possibility of Social Choice”, in Bina Agarwal, jane Humphries and Ingrid Robeyns, Eds (2006) : *Capabilities, Freedom, and Equality: Amartya Sen’s Work from a Gender Perspective* (New Delhi:OUP), chapter 16
5. Sen, Amartya , “Gender Inequality and Theories of Justice”, in Bina Agarwal, jane Humphries and Ingrid Robeyns, Eds (2006) : *Capabilities, Freedom, and Equality: Amartya Sen’s Work from a Gender Perspective* (New Delhi:OUP), chapter 17

## ECOC - 202 MONETARY THEORY AND POLICY

### Objectives

1. To equip the students with basic theories of monetary economics
2. To make the students understand the role of financial institutions in a developing economy
3. To educate the students to understand the working of monetary policies in India

### Unit – I: Demand for Money

1. Quantity theories of money – Fisher and Cambridge
2. Keynesian monetary theory
3. James Tobin's portfolio analysis of money demand
4. Don Patinkin's Integration– Real Balance Effect
5. Milton Friedman's reformulated quantity theory

### Unit – II: Supply of Money

1. Types and determinants of money supply – money multiplier
2. Theories of interest rate – classical – Keynes – Hicks – Hansen.

### Unit – III: Money and Capital Market

1. Significance and functions of Money market and capital market
2. Role of financial intermediaries – Effects of financial intermediation
3. Non-banking financial institutions – Gurley and Shaw theory

### Unit – IV: Banking

1. Functions of Commercial banks - Credit creation – process and limitations
2. Role of Commercial banks after nationalization – after reforms
3. Role of RBI – Regulation of money supply and credit
4. Narashimham Committee Reports– 1991 and 1998
5. Raguram Rajan Committee Report -2007

### Unit – V: Monetary Policy

1. Objectives and Instruments of Monetary policy– Limitations of monetary policy
2. Monetarism and Keynesianism – Comparison - Supply side policies

### Text Books

1. Jhingan, M.L. (2005). *Monetary Economics*[Konark Publication, New Delhi]
2. Sundaram, K.P.M. (2003). *Money, Banking and International Trade*[Vikas, New Delhi]
3. Vaish, M.C. (2004). *Money, Banking and International Trade* [New Age International, New Delhi]

### Reference Books

1. Gupta, R.D. (1995). *Keynes and Post Keynesian Economics* [Kalyani Publishers, New Delhi]
2. Basil J. Moore (1965). *An Introduction to the Theory of Finance* [Oxford University Press]
3. Basu, S.K. (1975). *Recent Banking Development*[Chand and Co., New Delhi]
4. Johnson Harry (1957). *Essays in Monetary Economics* [George Allen Unwin].

## ECOC-203 MATHEMATICAL ECONOMICS

### Objectives

1. To teach the students the meaning and significance of Mathematical Economics.
2. To develop in Economics skill in working out simple problems.

### Unit – I: Static Equilibrium Analysis

1. Ingredients of an Economic Model-Mathematical Economics Vs Literary Economics- Relations and Functions of Two or more variables in Economics.
2. Partial market Equilibrium- Method of Elimination-Simultaneous Linear Equations-Cramer's rule using determinants-Properties of Determinants.
3. Matrix operations-Addition, Subtraction, Scalar Multiplication, Transpose and Inverse- Solving a system of linear equations using matrix inverse method – Input-Output Analysis – Assumptions, uses and limitations.

### Unit – II: Comparative Static Analysis

1. Differential Calculus- Derivatives of a function in two or more variables –Total and partial derivatives – Rules of first and second order derivatives.
2. Applications of derivatives- Marginal values, Elasticity and Growth rate of a function and shape of graph of the function.
3. Optimum values of a function in two or more variables- First and Second order conditions- Lagrangian Multiplier method of constrained optimization.

### Unit – III: Theory of Demand

1. Utility Function-Marginal Utility- Consumer's equilibrium- Proportionality rule-Marginal Rate of Substitution-Normal properties of Indifference Curves.
2. Slutsky equation-Separation of price effect into income and substitution effect.

### Unit – IV: Theory of Production

1. Production Function-Marginal product-Isoquant- Marginal Rate of Technical substitution- Expansion Path–Elasticity of Substitution.
2. Properties of Homogeneous production Function, Application of Euler's theorem to the marginal Productivity theory of Distribution - Cobb-Douglas Production Function – Properties, uses and limitations.
3. Linear programming – Graphic method and Applications.

### Unit – V: Theory of Firm

1. Cost Function – Marginal, Average and Total – Normal Cost conditions.
2. Revenue Functions –Marginal, Average and Total-Normal Revenue conditions
3. Profit maximization under Perfect competition and Monopoly.

### Text Books

1. Chiang, C (1994) *Fundamental Methods of Mathematical Economics* (New Delhi: McGraw Hill).
2. Dowling Edward T (1989) *Mathematical Methods* (Schaum Series, New York).
3. Geoff Renshaw (2009) *Maths for Economics* (OxfordUniversity Press, London)
4. Metha, B.C. & Madhani, G.M.K. (2004), *Mathematics for Economists* (Sultan Chand & Sons- New Delhi).

### Reference Books

1. Allen R.G.D. (1984), *Mathematical Analysis for Economics* (London: Macmillan).
2. Henderson J.M &R.N. Quandt (1979) *Micro Economic Theory* (New York: McGraw Hill).
3. Koutsiyannis. A (2002) *Modern Micro Economics* (New York: The Macmillan).
4. Lancaster K (1998) *Mathematical Economics* (New York: The Macillian).

## ECOC-204-1 MANAGERIAL ECONOMICS

### Objective

1. The students will learn to apply principles of economics to the business decision making.

### Unit-I Managerial Objectives of The Firm

1. Economics and management
2. Managerial models of the firm, (a) Sales –revenue –Maximizing model (Baumol) , (b) Managerial utility maximizing model (Williamson), (c) Marris model.
3. Behavioral model to the firm , (a) “ Satisfying” (b) X-Inefficiency

### Unit-II Competitive Advantage

1. “Structure conduct – Performance” theory
2. “ Generic strategies” for competitive advantage ( Michal porter)
3. The “ five forces “ model of competition
4. Sustaining competitive advantage , (a) Economics of scale as barrier to entry- mergers , (a) differentiation as barrier to entry.

### Unit-III Pricing Strategies and non Price Competition

1. Price discrimination : First degree, Second degree and third degree price discrimination
2. Approached to Pricing: (a) Cost-plus pricing (b) target return pricing (c) product life cycle pricing: skimming strategy-penetration strategy (d) transfer pricing
3. Non-Price Competition : Components of the “marketing mix”
4. Promotion in marketing mix: (a) Dorfman-Steiner condition for advertising expenditure (b) Determinants of advertising elasticity of demand
5. Product policy and place in the marketing mix: (a) Product mix decisions (b) Place: selecting a “marketing channel”

### Unit-IV Investment Appraisal

1. The investment selection process
2. Estimating cash flows
3. Evaluating Investment: (a) payback method (b) net present valuemethod
4. The cost of capital (a) dividend valuation model (b) Capital –asset pricing model

### Unit-V The “New Economy” and the “Firms Architecture”

1. The “New Economy” (a) Characteristics of the new economy (b) economics of “net works”
2. Diffusion process in the new economy.” Tipping” “path dependence” and winner-takes-all.
3. Firms architecture: Vertical boundaries (make-or-buy” decision and transactions costs)
4. Firms architecture: horizontal boundaries (economics of scope,diversification and “relationship-specificassets”)

### Text Books

1. Howard Davies (1998) : Managerial Economics London : Pitman
2. William Boyes (2005): The New Managerial Economics(Indian Adaptation Edition),New Delhi Biztantra

### Reference Books

1. Ahuja H.L.(2008) Managerial Economics (S.Chand & Co, New Delhi)
2. Varshney R.L and K.L.Maheswari (2005) Managerial Economics (S.Chand & Co, New Delhi)
3. Mathur (2008) Managerial Economics (Power Book Mark)



## ECOC 204- (2) INDUSTRIAL ECONOMICS

### Objectives

1. To make the students understand the role of industries and corporate form of organization
2. To gain the knowledge of the new industrial policy and some issues in industry

### Unit -I Introduction

1. Concepts: Plant, firm, conglomerate, cartel, pattern of industrialization, industrial sector and industrial structure– Economies of scale – Market structure
2. Objectives of the firm – Growth of firms – Marginal cost pricing Vs. full cost pricing – Depreciation – Allocation of common costs among individual products – Administered prices.

### Unit -II Industrial Organization

1. Industrial structure and change, market conduct and market performance – Interrelations – Conditions of entry – Relevance of industry studies for public policy.
2. Monopoly and concentration: Concepts – Reasons for concern – Measures of monopoly and concentration – Extent of monopoly and concentration in India – Non-legislative and legislative measures of control in India, U.S. and U.K. legislation – The Indian MRTP Act- Industrial Policy (1991)

### Unit –III Corporate Form of Organization

1. Features – Methods of control – ‘The divergence problem’ – Traditional Vs. present day capitalism – Growth and structure of the Indian corporate sector.
2. Financial statements: Ratio analysis and interpretation.
3. Industrial finance: Types of finance – Money and Capital markets – Commercial Banks and Development Banks – IDBI, IFCI, SFC, SIDBI- Objectives and Impact of these institutions.

### Unit –IV Location and Regional Development

1. Industrial location: Weber and Sargent Florence theory Factors affecting industrial location - Measures of localization -- Regional growth of industry in India
2. Tools of State policy – Industrial policy on backward areas.

### Unit –V Issues in Indian Industry

1. Public sector: Rationale-organization – Pricing policies – The question of efficiency – Performance of public sector in India – Disinvestment policy-The concept of joint sector.
2. Small Scale Industries - industrial sickness, capacity utilization, foreign collaboration, multinationals in India, Indian joint ventures abroad
3. Evaluation of Industrial reform measures.

### Text Books

1. Barthual R (2004) *Industrial Economics* (Wiley Eastern Ltd, New Delhi)
2. Divine, P.J. *et al.*, (1978). *An Introduction to Industrial Economics* [George Allen and Unwin, London]
3. Hay, D.A. and D.J.Morris (1998). *Industrial Economics: Theory and Evidence* [OxfordUniversityPress,Oxford]

### Reference Books

1. Datt & K.P.M. Sunddarajan (2009) *Indian Economy* (S.Chand & Co, New Delhi)
2. India Micro, Small and Medium Enterprises Report 2007 & 2008 (ISED House, Chchin)
3. Thakur (2008) *Industrial Sector Development* (S.Chand & Co, New Delhi)
4. Kuchaals.C. (1980) *Industrial Economy of India* (Chaitanya Publishing House: Allahabad)
5. Mittal Sharma (2008) *Industrial Economics Issues and Polices.* (Power Book Houes)
6. Sharma *Industrial Economics* (Power Book Houes)

## ECOC-301 FISCAL THEORY AND POLICY

### Objectives

1. To make the students appreciate relative roles of Government and market in resource allocation from a theoretical perspective.
2. To teach the students the working of the fiscal policy with emphasis on tax structure, debt management in the context of federal setup.

### Unit – I: Introduction

1. Role of public finance - Major Fiscal functions.
2. Private and Public goods – Mixed goods – Merit goods- Social goods- Market failure Public goods and externalities.

### Unit – II: Public Expenditure

1. Theories of Public Expenditure – Musgrave – Wagner - Peacock Wiseman– Growth of Public Expenditure – Canons and Evaluation of Public Expenditure.

### Unit – III: Taxation and Public Debt

1. Direct and Indirect taxation – Canons and Principles of Taxation – Theory of optimal taxation – modern theory of incidence.
2. Classification and Sources of public debt– Burden of public debt– Principles of public debt– Methods of repayment of public debt– Compensatory aspects of public debt policy

### Unit – IV: Fiscal Policy and Fiscal Federalism

1. Objectives and Instruments of Fiscal policy – Compensatory Fiscal policy – Fiscal policy for Economic stability and growth– Effectiveness of fiscal policy.
2. Fiscal federalism – Role of finance commission – Principles – Recommendations of 12<sup>th</sup> Finance Commission and Terms of Reference of the 13<sup>th</sup> Finance Commission – Transfer of resources from Union and States and States to Local Bodies.

### Unit – V: Indian Public Finance

1. Financial Autonomy in India – Tax Reform proposals of Kelkar Committee.
2. Tax structure and Working of Fiscal federalism in India – Resource transfer from union to state of Tamilnadu – VAT – Merits and Demerits.
3. Fiscal consolidation in India since 2001-2002 – Fiscal responsibilities of central and state.
4. Central and State government Budgets – issues of fiscal deficit
5. Fiscal policy and Economic downturn : Fiscal correction versus additional Stimulus

### Text Books

1. Richard A Musgrave and Peggy B. Musgrave (2000). *Public Finance in Theory and Practice* [New Delhi]
2. Singh S.K.(2004) , *Public Finance in theory and Practice* ( S.Chand & Co)
3. Tyagi B.P. (1982). *Public Finance* [Jai Prakash Nath]
4. Sundaram, K.P.M & Andley K.K. (1998) *Public Finance in theory and Practice* S.Chand & Co)

### Reference Books

1. Kavita Rao R. (2004). *Impact of VAT Central & State Finance*, EPW No :26
2. Kelker V (2002), “*Indian Tax Reform Report of a Survey*”. Ministry of Finance.
3. Lekha Chakravarthy (2008) “*Analysing the Raguram Rajan Committee Report on Finance Sector Reforms*” EPW 43 (25): 11-14 June -21-27.
4. Raja J Chelliah (1960). “*Fiscal Policy in Underdeveloped Countries: With Special Reference in India*” [George Allen And Unwin Ltd, London]
5. Rangarajan C. (2005) EPW No: 31, *Approach to 12<sup>th</sup> Finance Commission*.
6. Reddy T.T, *12<sup>th</sup> Finance Commission & Backward States*, EPW 41 (32): (Aug 12)
7. Reddy Y.V. (May 2008): *Fiscal Policy & Economics Reforms* (NIPEP) New Delhi.
8. Shankara Acharya (2006) “*30 years of Tax Reform in India*” EPW (April)

## ECOC-302 INTERNATIONAL TRADE AND FINANCE

### Objectives

- 1 To familiarize the students with trade theories and modern institutions.
- 2 To develop analytical skill of the students for identifying international economic problems and the complexities in international trade.

### Unit – I: Theories of International Trade

- 1 Adam Smith's theory of Absolute Cost Advantage-Ricardo's Comparative Cost Theory-Opportunity Cost Theory of Haberler.
- 2 Factor Endowment Theory of Heckscher-Ohlin.
- 3 Recent Theories of International trade – Neo-Technology theory, Theory of Imperfect Competition, Theory of External Economies – Krugman's Strategic Trade Theory.

### Unit – II: Terms of Trade

- 1 Meaning and types of terms of trade.
- 2 Determinants of terms of trade.
- 3 Terms of trade and Economic development.

### Unit – III: Trade and Commercial Policy

- 1 Free Trade Vs Protection- Tariff and non-tariff barriers.
- 2 Effects of tariffs and quotas.
- 3 International trade organizations - UNCTAD, WTO, SARRC.
- 4 IMF and International liquidity

### Unit – IV: Foreign Exchange and Balance of Payments

- 1 Fixed, Flexible and Floating Exchange Rates - Theories: Mint Par Theory, Purchasing Power Parity Theory and Balance of Payments Theory
- 2 Balance of Trade and Balance of Payments - Current and Capital accounts
- 3 Adjustment Mechanism Depreciation, Devaluation, Export Promotion, Import Substitution and Exchange Control- Mundel Fleming model.

### Unit – V: Regional Economic Integration

- 1 Regional Economic Integration – Customs Union
- 2 European Economic Integration
- 3 Role of G8, G20 and BRIC

### Text Books

- 1 Francis Cherunillam (2004). *International Economics* (Tata McGraw Hill, New Delhi)
- 2 Mannur H.G. (1999). *International Economics*(Vikas Publishers.)
- 3 Mithani D.M. (2002). *Introduction to International Economics* (Vora & Co, Bombay)

### Reference Books

1. Bo Soderstan and Geoffery Reed (2008) *International Economics* (Palgrave Macmillan , London).
2. Charles P. Kindleberger (1953). *International Economics* (Richard D. Irwin, INC, U.S.A)
3. Paul R.Krugman and Maurice Obstfeld (2000). *International Economics: Theory and Policy* (Addison-Wesley Longman , Delhi)
4. Sachdeva, N.K.(2005) :*International Economics* (Vishvabharathi Publications)

## ECOC-303 DEVELOPMENT ECONOMICS

### Objectives

1. The students will be introduced to the economic way of reasoning about economic progress and to traditional and contemporary thinking about the central issues pertinent to poor economics.

### Unit – I :Introduction

1. Conceptualizing development: (a) GNP) as development indicator .The Human Development Index.
2. The structural characteristics of developing economies
3. Factors of development: (a) Capital accumulation (b) Labour (c) Natural resources (d) Technological Progress (e) Social institutions cultural values and entrepreneurial ability.

### Unit – II: Theories of Development

1. Development as growth: (a) Harrod-Domar model (b) Rostow's stages of growth theory (c) Lewis theory (d) balanced and unbalanced growth (e) Neo classical growth theory –Solow Model
2. Contemporary theory of development: (a) New growth theory: Romer model (b) Underdevelopment as Co-ordination failure (c) Kremer's O-Ring theory of development
3. Geography and development: Krugman's theory

### Unit – III : Poverty, Inequality and Human Capital

1. Measurement of inequality and poverty-Inverted –U hypothesis -Cause of inequality
2. Investing in education and health-the human capital approach.
3. Education and Development(a) social and private benefits of education (b)Women's education and development
4. Health system in development (a) health and productivity (b) financing health system in developing economics (c) Gender perspective in health care.

### Unit – IV: Agriculture and Rural Development

1. The role of agriculture in development
2. Agricultural policy : (a) agricultural taxation (b) pricing policy
3. Risk aversion and uncertainty in subsistence farming-sharecropping and interlocking factor markets
4. Rural urban migration –Todaro model – (a) providers and characteristics (b) theories of informed credit markets: lender's monopoly and default collateral

### Unit- V: Policies for development

1. Market and the state in development:(a) The Washington consensus components and critical evaluation (b) The role of state in development (c) market failure state failure and development
2. Trade Policy in development : (a) import substitution (b) export promotion
3. Fiscal and Monetary Policies for Development (a) direct Vs indirect taxes (b) pattern and level of taxation.

### Text Books

1. Michael P. Todaro (2015), *Economic Development*, Pearson Education, Singapore ,
2. Yujiro Hayami (2003), *Development Economics: New Delhi Oxford University Press*

### Reference Books

1. Debraj Ray (2009) *Development Economics*, New Delhi, Oxford University Press
2. Jomo K.S. and Ben Fiveth (Eds); (2005), "The New Development Economics: London Zes Books and New Delhi, Tulika Books
3. World Development Reports, (The World Bank1998,2005,2007,and 2009)



## ECOC -304 (1) HUMAN RESOURCE DEVELOPMENT AND POLICY

### Objectives

1. To make the students understand the utilization of human resources
2. To familiarize the students with the measures for human resource development

### Unit-I Introduction

1. Human resource development – Concept and background – Need and importance
2. Role of human resource development and productivity
3. Human capital formation and skill formation – Factors influencing human resource development.

### Unit-II – Education

1. Role of education in human resource development
2. Investment in education – Effects of education – Economic impact of education
3. Women's education and human resource development in developing countries.

### Unit-III Nutrition and Health

1. Economics of public health – Factors affecting health – Preventive and curative services – Investment in public health
2. Health policies of India – Health policies with special reference to women's health.

### Unit-IV Entrepreneurship

1. Role of entrepreneurship in development – Factors stimulating entrepreneurship – Principles of entrepreneurship
2. Entrepreneurial skills for the poor and unemployed – Need for entrepreneurship in developing countries.

### Unit-V Manpower Planning

1. Meaning, need and importance of manpower planning – Objectives and methods of manpower planning
2. Manpower planning in LDCs, Manpower shortages – Manpower surpluses – Strategy for manpower planning
3. Human resource policy in India

### Text Books

1. Gerald M.Meier (2006). *Leading Issues in Economic Development* [OxfordUniversity Press, London]
2. T.V.Rao (1996). *Human Resource Development – Experiences, Interventions, Strategies* [Sage Publications, New Delhi]
3. Suresh Chandra Shukla and Rekha Kaul (1998). *Education, Development and Underdevelopment* [Sage Publications, New Delhi]
4. B.R.Virman [1996]. *Economic Restructuring Technology Transfer and Human Resource Development* [Sage Publications, New Delhi]

### Reference Books

1. G.S.Becker (1995). *Human Capital: A Theoretical and Empirical Analysis* [ColumbiaUniversity Press, New York]
2. F. Harbison and C.A.Myers (1975). *Education, Manpower, and Economic Growth* [OxfordUniversity Press, London]
3. Daniel J.B. Mitchell and Mahmood A. Zaidi (Ed) (1990). *The Economics of Human Resource Management* [Basil Blackwell, United Kingdom]
4. George Psacharopoulos and Maureen Woodhall (1985). *Education for Development: An Analysis of Investment Choices* [OxfordUniversity Press, London]
5. Mark Blaug (1969). *Human Capital Theory* [OxfordUniversity Press, London]
6. Peter Drucker (1980). *Innovation and Entrepreneurship* [Oxford University Press, London]

## ECOC – 304 (2) URBAN AND TRANSPORT ECONOMICS

### Objectives

1. To make the students learn the major issues of urban system
2. To enable the students to study transports systems, budgeting principles, transport policy, travel and tourism, etc.,

### Unit-I - Introduction

1. Definition of Urban Area – Causes of urbanisation
2. Theories of urban structure and urban growth – concentric zone theory – Central place theory – Urban base theory.
3. Features of urbanisation in Developing countries.

### Unit-II - Theories of Rural–Urban Migration

1. Ravenstin’s Law, Lewis – Fei Ranis Model – Lee’s theory – concept of informal sector and its role in economic development.
2. Factors affecting migration – Push and Pull factors – Economic Factors – Social and other factors.

### Unit-III – Urban Problems

1. Slums, Urban Housing and Urban Renewal
2. Urban water supply and Public Health – Urban Environment.
3. Urban Financial Problems.

### Unit-IV – Urban Transport

1. Demand for Transport Services – Principle of transport cost, Price and Budget – Budgeting principles – Transport systems
2. Urban Transportation – Types and structure – Trends and composition of Road transport, Railways. Airways and waterways.
3. Role of Public and Private sectors – Problems and Prospects – Transport under 5 year plans

### Unit-V – Urban Planning and Policies

1. Integrated Development of small and medium towns – Urban development and policy
2. Measures to control urban growth – Decentralisation of industry – Growth centres – Satellite towns.

### Text Books

1. Francis Cherunillum (1984). *Urbanisation in Developing Countries* [Himalaya Publishing House, Bombay]
2. Loyd Rodwin and Associates (1969). *Planning Urban Growth and Regional Development* [M.I.T.Press, London]
3. Robert L. Bish. Robert J. Kirk (1974). *Economic Principles and Urban Problems* [Prentice Hall. Inc., New Jersey]
4. William H. Lehay, David L. Mckee and Robert D.Dean (1970). *Urban Economics* [The Free Press, New York]

### Reference Books

1. Fred Moavenzadeh and David Geltner. *Transportation, Energy, and Economic Development: A dilemma in the developing nations (Countries)*
2. Harris Hordon (1973). *Introduction to Urban Economics Analysis and Policy* [Applican-Century Crafts, New York]
3. Kenneth Button (1993). *Transport Economics* [Edward Elgar, London]
4. Ratan Kumar Singh (1988). *Road Transport and Economic Development* [Deep & Deep Publications, New Delhi]

## **SOSC 306- SOFT SKILLS**

### **For All the 2 Year PG Programmes of Arts Faculty**

#### **Objective:**

To train students in soft skills in order to enable them to be professionally competent.

#### **Unit 1: Soft Skills and Personality Development**

Soft Skills: Meaning and Importance - Hard Skills versus Soft Skills - Self Concept: Self Awareness, Self Development and Self Realisation – Power of Positive Attitude – Etiquette and Manners.

Listening: Types of Listening, Effective Listening and Barriers to Listening – Assertive Communication.

#### **Unit 2: Communication Skills**

Oral Communication: Forms, Types of Speeches and Public Speaking – Presentation: Elements of Effective Presentation and Use of Visual Aids in Presentation.

Written Communication: Strategies of Writing – Business Letters: Form, Structure and Formats – Types of Business Letters – Memos – Agenda and Minutes.

Non-verbal Communication: Body Language and Proxemics.

#### **Unit 3: Interpersonal Skills**

Interpersonal Skills: Relationship Development and Maintenance and Transactional Analysis.

Conflict Resolution Skills: Levels of Conflict and Handling Conflict - Persuasion – Empathy – Managing Emotions – Negotiation: Types, Stages and Skills – Counselling Skills.

#### **Unit 4: Employability Skills**

Goal Setting – Career Planning – Corporate Skills – Group Discussion – Interview Skills – Types of Interview - Email Writing – Job Application – Cover Letter - Resume Preparation.

#### **Unit 5: Professional Skills**

Decision Making Skills – Problem Solving – Emotional Intelligence – Team Building Skills – Team Spirit – Time Management – Stress Management: Resolving Techniques.

#### **References:**

1. Ghosh, B.N. *Managing Soft Skills for Personality Development*. (Ed). New Delhi: Tata McGraw Hill Education Pvt. Ltd., 2012.
2. Krishna Mohan and Meera Banerji. *Developing Communication Skills*. (2<sup>nd</sup> Edition). New Delhi: MacMillan Publishers India Ltd., 2009.
3. Neera Jain and Shoma Mukherji. *Effective Business Communication*. New Delhi: Tata McGraw Hill Education Pvt. Ltd., 2012.
4. Rao, M.S. *Soft Skills - Enhancing Employability: Connecting Campus with Corporate*. New Delhi: I.K International Publishing House Pvt. Ltd., 2011.
5. Ashraf Rizwi, M. *Effective Technical Communication*. New Delhi: Tata McGraw Hill Education Pvt. Ltd., 2010.
6. Bretag Tracey, Crossman Joanna and Bordia Sarbari. *Communication Skills*. New Delhi: Tata McGraw Hill Education Pvt. Ltd., 2012.



## ECOC-401 ENVIRONMENTAL ECONOMICS

### Objectives

1. To learn the importance of environmental system for economic system.
2. To make the students understand the environmental issues from the view point of economic incentives and placing monetary values on the environment.
3. To teach the need to balance economic growth and environmental protection, especially in the context of “sustainable development”.

### Unit – I: Economy and the Environment

1. The interaction between the economic system and the environmental system – The services provided by the environmental system to the economic system – The Material Balance model.
2. Types of Pollutants: Cumulative and non- cumulative; Local, régional and global; Point source and non- point source.
3. Welfare effects of pollution: Local and global air pollution (acid rain, ozone depletion, global warming), water pollution, municipal solid waste.

### Unit – II: Market and the Environment

1. Conditions for efficient functioning of markets.
2. Market failure and environmental damage – Environmental damage as an externality – Environmental goods as public goods – Asymmetric information and environmental damage; adverse selection, moral hazard.
3. Property rights and environmental damage: the Coase Theorem.
4. “Government failure” and environmental damage.
5. Pollution control Policies – Command-and-control policy – Market based instruments: Pollution taxes, tradable permits, subsidies.

### Unit – III: Environmental Valuation

1. Cost-Benefit analysis
2. The need for environmental valuation - The categories of environmental value.
3. Methods of environmental valuation – Revealed preference methods: Hedonic pricing method, travel cost method: - Stated preference approach; Contingent Valuation Method.

### Unit – IV: Natural Resource Economics

1. Types of natural resources, the McKelvey classification.
2. Measuring resource scarcity: Resource lifetime, unit cost measures, real prices, economic rent - Allocating non-renewable resources: The Hotelling Theorem.
3. Renewable resources – Forests: Frontier model and immiserisation models of deforestation; Consequences of deforestation; - Fisheries: “Efficient sustainable yield”; - Water: Efficient allocation of surface and ground water.
4. Common Property Resources (CPRs) – Characteristics of CPRs -Dissipation of Hotelling rents (“tragedy of the commons”) - Ostrom’s “design principles” for sustainable local CPR governance.

### Unit – V: Economic Growth and Sustainable Development

1. Growth and the environment: The environmental Kuznets curve.
2. The “limits to growth” Club of Rome model.
3. Economics of sustainable development – Brundtland Commission definition – Theories of sustainable development: weak sustainable development and strong sustainable development – sustainability rules: The “Hartwick rule”; Safe minimum standards; -

Measuring sustainable development: “green national accounts”; genuine savings - Link between poverty and environmental degradation

4. Economics of Climate Change – Summary of Stern Review.

### **Text Books**

1. Hanley, Nick, J.F. Shogren, and Ben White (2001): *Introduction to Environmental Economics* (London: OxfordUniversity Press).
2. Karpagam M. (1998) *Environmental Economics* (Streling Publishers, New Delhi).

### **Reference Books**

1. Field, Barry C (2001): *Natural Resource Economics: An Introduction* (London: McGraw Hill).
2. Sankar U (2000) *Environmental Economics* (OxfordUniversity Press: New Delhi).

## ECOC-402 INDIAN ECONOMIC DEVELOPMENT AND POLICY

### Objectives

1. To make the students familiar with the theories of development.
2. To give an insight into the functioning of the economy through macro economic policies and instruments.
3. To train the students with working of diverse economic policies in India.

### Unit – I: Structure of Indian Economy

1. Characteristics of Indian Economy – Population growth, Unemployment and Mass Poverty.
2. Structural change in Indian economy – Sectoral Composition of NI
3. Dimensions of Indian economy as an emerging economy.

### Unit – II: Planning in India

1. Indian Plan strategies and Mahalanobis Model – Criticisms.
2. Plan Objectives: An overview of long term objectives – Macro Economic stabilization and structural Reforms.
3. Financing of the plans – Investment pattern.
4. Assessment of Indian Plans.

### Unit – III: Issues in Agriculture and Industry

1. Agriculture in Indian Economy – Technological and structural Transformation.
2. Food Security and Public Distribution System in India.
3. Small and Medium Enterprises - Working of our Public Sector: Privatization – Strategy of Disinvestment
4. Labour Sector Reforms

### Unit – IV: Money, Banking and Public Finance

1. Price trends – Inflation – Monetary and Credit Policy of the RBI.
2. Banking Sector Reforms and Role of commercial Banks in Indian Economic Development.
3. India's Fiscal Policy – Recent Tax Reforms on Indian tax structure.
4. Organization and Functioning of Stock Exchanges in India

### Unit – V: India and the World

1. India's Foreign Trade – EXIM Policy and Trade Policy since 1991.
2. Foreign Capital, Foreign Aid and FDI – The MNCs, FEMA and Globalization.
3. Monetary and Fiscal Policy since 1991 – Recession.

### Text Books

1. Agarwal A.N. (1996) *Indian Economy* (Wishwa Prakash, New Delhi).
2. Datt, Rudder & Sundharam, K.P.M.(2004):*Indian Economy* (S.Chand & Co).
3. Dewett K.K. and Verma J.D.(2001): *Indian Economics*, (S.Chand & Co, New Delhi).
4. Michael P. Todaro (2007), *Economic Development in third World Countries* (Vora, New Delhi).
5. Misra S.K. and Puri V.K (1997) *Indian Economy* (Himalaya Publishing House, Mumbai).

### Reference Books

1. Deepak Nayyar : (1996) *Economic Liberalization in India* (Orient Longman Calcutta).
2. Frankel, Francine R. (2005):*India's Political Economy 1947-2004* (Oxford)
3. Mahajan V.S. (1995), *Studies in Indian Economy* , (Deep and Deep, New Delhi).
4. Qureshi, M.S.(2004) : *Indian Economy*(Dominant Publishers , New Delhi).
5. Ray.S.K (2007):*The Indian Economy* (Prentice-Hall Of India).
6. Sen, Raj Kumar & Chatterjee, Biswajit (2003):*Indian Economy* (Deep & Deep)
7. Jhingan M.L. (2004) *Development Planning* (Konark Publishers, Chennai)
8. *Economic Survey – Recent Issues*
9. *India Development Reports Present Issues*

## ECOC-403 COMPUTER APPLICATIONS IN ECONOMICS

### Objectives

To equip skill in applying statistical tools to Economics using computers

### Unit-I - Text Management with MS-WORD

Creating new Documents –Document template – Typing Text – Editing Text – Insert Text – Go to, Find, and Replace text or word - Formatting of Text – Format painter – Cut and Paste utility - Copying Document/text in the same or Different file or Document – Drag and drop of typed text-creating tables – using auto correct, dictionary thesaurus.

### Unit-II - Managing Data Base

1. MS ACCESS: Data base – Definition, Creation and components - Data base templates
  - a. Editing, adding, navigating, and searching records
  - b. Queries and Filters
  - c. Sorting and indexing
2. EXCEL: The typical worksheet or spread sheet – cell and their properties – formatting cell – text, numbers, currency, accounting, date, time, percentage, scientific – formats.
  - a. Formula: using arithmetic and relational operators in a worksheet
  - b. Advanced Formulas: sum, count, Average, Max, Min, Product
  - c. Using auto format

### Unit-III - Graphs and Charts

1. Bar diagrams, pie charts, Area,
2. Building Line Diagrams, Histograms, Scatter plots
3. Frequency Graphs, Ogive, Lorenz curve
4. Time Series

### Unit- IV - Data Analysis-I

1. Naming variables - Coding and Recoding of data - Arithmetic calculations with in variables
2. Descriptive Statistics: Frequencies, Descriptive, Explore, Cross Tabulation
3. Compare Means: One sample T- test, Independent Sample T – test, paired sample T test, One way ANOVA
4. Correlation: Bivariate, Partial,
5. Regression: Linear, Curve Estimation, Multiple Regression

### Unit-V - Data Analysis-II

1. Classification: K-means cluster, Hierarchical cluster, Discriminant function
2. Non-parametric Test: Chi-square, Bi-nomial
3. Time Series – Exponential Smoothing, Auto regression, Seasonal Decomposition

### Text Books

1. Lipschutz M.M. and S. Lipschutz (1982) *Theory and problems of Data processing : Schaum's Outline Series*, (McGraw Hill, New York)
2. Corey Sandler, Tom Badgett, Jan Weingarten (1997) *Office 97 for Windows*(BPB Publications, New Delhi)
- 1 Andy Field (2000). *Discovering Statistics Using SPSS for Windows – Advanced Techniques for the Beginner* [Sage Publications, New Delhi]

## ELECTIVE SUBJECTS OFFERED BY THE DEPARTMENT OF ECONOMICS

### **ECO – 105 (1) ECONOMICS OF CLIMATE CHANGE**

#### **Objectives**

To familiarize the students with the economic aspect of climate change

#### **Unit-1: Introduction**

1. The roots of climate change: greenhouse gas emissions and rising global temperature
2. Climate change and economic development: a) climate change–economy transmission mechanisms; b) impact of climate change on human well-being: known and uncertain impacts c) The “tipping points” of dangerous climate change
3. Impact of climate change on developed and poor economies

#### **Unit-2: Economic Policies for Climate change Mitigation**

1. The need for climate change mitigation
2. Economic explanation of climate change: the concept of “market failure” and how it causes climate change
3. Using prices and markets for climate change mitigation: taxes, carbon emissions trading (‘cap-and-trade’) and regulations promoting green technology
4. Ethics of climate change : limits of cost-benefit analysis

#### **Unit-3: Adapting to Climate Change**

1. The case for Adaptation to climate change
2. Adaptive management of risk : managing physical, financial and social risks
3. International action and adaptation in developing nations

#### **Unit-4: Natural Resources Management and Climate Change**

1. The fundamentals for natural resource management
2. Economics of water use in context of climate change
3. Climate change and efficient management of agriculture and fisheries
4. Sustainable energy

#### **Unit-5: Local and Global Action**

1. Economic incentives for “climate smart” Individual action
2. The role of firms in climate change adaptation and mitigation
3. National and International policies for “climate smart” innovation and technology diffusion

#### **Text & Reference Books**

1. Nicholas Stern (2010), *A Blueprint For A Safer Planet* London :Vintage Books
2. United Nations development Programme ( 2007) *Human Development Report 2007/2008: Fighting Climate Change* Available online <http://hdr.undp.org/en/reports/global/hdr2007-2008/>
3. The World Bank (2010) *World Development Report 2010: Development and Climate Change* Full text online : <http://econ.worldbank.org>

## ECO-105 (2) INDIAN ECONOMIC DEVELOPMENT

### Objective

1. To equip students preparing for competitive examinations and State and All India level Public Service commission examinations.
2. It gives an insight into the functioning of the economy through macro economic policies and instruments and applications of the issues involved in the working of the diverse economic policies in Indian economy over the decades.

### Unit-I Structure of the Indian Economy

1. Dimensions of the Indian economy: As a developing Economy;As a dualistic economy.
2. Natural Resources:Ecological imbalance,Population and Economy;As a dualistic economy.
3. National Income and Income distribution.
4. Problems of Unemployment-Mass poverty in India.

### Unit-II Economic Planning and Policy

1. Indian plan strategies: Mahalanobis,Wage-Good,ADLG,and ELG strategies.
2. Objectives of our plans: An overview of Long term objectives-Macro Economics stabilization and Structural Reforms.
3. Financing of the plans and investment pattern.
4. Assessment of Indian Planning.

### Unit-III Issues in Agriculture and Industry

1. Agriculture in the National Economy
2. Food security and public Distribution system
3. Working of our public-sector : A review, The NIP: The policy of Liberalisation.
4. Capital market and Industrial finance in India.

### Unit-IV India and the World

1. India's foreign Trade-India's Balance of payment.
2. Foreign Capital and Foreign Aid.
3. The MNCS and FERA-Globalisation-Towards a New World Economic order:India and WTO

### Unit-V Money,Banking and Public Finance

1. Price Trends and Inflation-Monetary policy of RBI.
2. Commercial Banking:Nationalisation of Commercial Banks:Banking sector Reform.
3. Public Debt in India-Deficit Financing-India's Fiscal Policy.

### Text Books

1. Agrawal A.N.(1996),Indian Economy (New Delhi:Chand & Co)
2. Dewett K.K.Verma J.D.and Sharma M.L.(1995),Indian Economics.(S.Chand &New Delhi)
3. Karanti Lingaiah (1995),Economic Development and planning,(Agarwal Education Publishers,Agra-3)
4. Misra S.K.and Puri V.K.(1997),Indian Economy Mumbai: Himalaya House)

### Reference Books

1. Bimal Jalan (ed) (1992),The Indian Economy:Problems and Prospects, (Viking,New Delhi)
2. Deepak Nayyar (1996) Economic Liberalization in India, Analytical, Experience and Lessons.(Orient Longman Calcutta)
3. Jagdish, Bhagwati and T.N.Srinivasan(1976) Foreign trade Regime and Economic Development of India (The Macmillan Company of India,New Delhi)
4. Mahajan V.S.(1995),Studies in Indian Economy,(Deep and Deep Publications,New Delhi)
5. Michael P.Todaro (1987),Economic Development in the Third World Countries (Vora, New Delhi).
6. Vaidyanathan A.(1995) The Indian Economy-Crisis,Response and prospects(Orient Longman Ltd.,Hyderabad)

## ECO-205 (1) URBAN ECONOMICS

### Objective

The study of urban economics is intended

1. To make the students understand the economic factors and forces underlying the process of urbanisation.
2. To develop students skill to examine the economic aspects or urban problems.
3. To provide insights into the formation of effective urban policies.

### Unit-I The process of Urbanisation

1. Definition of Urban Area- causes of urbanisation.
2. Theories of urban structure and urban growth-Concentric Zone Theory-Central Place Theory-Urban base theory.
3. Features of urbanization in Developing countries.

### Unit-II Rural-Urban migration

1. Theories of Rural- Urban migration-Rosent's Law, Lewis-Fei Ranis Model, Lee's Theory.
2. Concept of informal sector and its role in economic development.
3. Factors affecting migration-Economic Factors-Push and Pull factors Social and other factors.

### Unit-III Problems of Urbanisation

1. Urban Transportation.
2. Slums, Housing and Urban Renewal.
3. Urban Water supply and Public Health.
4. Urban Financial Problems.

### Unit-IV Urbanisation in India

1. 21<sup>st</sup> Century Urbanisation in India-Growth of Urban Population.
2. Urbanisation without labour absorption in India.

### Unit-V Urban Development Policy in India

1. Policies and Programmes under the plans- Integrated Development of small and medium towns.
2. Urban development and Housing Policy.
3. Measures to control urban growth-Decentralisation industry-Growth Centres-Satellite towns.

### Text Books

1. Ashish Bose (1989) India's Urbanisation 1901-2001 (New Delhi, Tata McGraw Hill Co.)
2. Francis Cherunillam (1984) Urbanisation in Developing Countries (Bombay, Himalaya Publishing House)
3. Ghanshyam Shah, (1997) Urban Economics (Sage Publications, New Delhi)

### Reference Books

1. Brian A and Ravinder Singh, (edited) (1995) Housing the Urban poor, Policy and Practice in Developing Countries, (Sage Publications, New Delhi)
2. Fred Durr, The Urban Economy (London, Index Educational Publishers) 1971.
3. Harris Tordon (1973), Introduction to urban Economic Analysis and policy (New York).
4. Lolyd Rodwin and Associates (1969). Planning urban growth and Regional Development (London: M.T.Press)
5. Mark Garrett, (1996) Transportation Planning (Sage Publications, New Delhi).
6. Robert L. Bish and Robert J. Kirk (1974), Economic Principles and Urban Problems (New Jersey, Prentice Hall Inc)
7. Rohan Paddison and Bill Lever (Edited) (1999), Hand Book of Urban Studies (Sage Publications, New Delhi)
8. William H. Leahy, David L. McKee and Robert D. D (1970), Urban Economics (New York, The Free Press).

## ECOE-205(2) ECONOMICS IN EVERYDAY LIFE

### Objectives

1. To introduce the economic way of thinking about society.
2. The students will learn to use basic economic reasoning to reflect on a wide range of issues in a society.

### Unit – I: Thinking about Prices

1. How are prices determined: The concept of willingness to Pay.
2. Understanding Inflation: Meaning of Inflation and how it is measured in India.
3. Inflation rate and the prices you pay in shops: why they diverge.
4. Application: why prices are higher in some locations than others although the production and selling costs are identical.

### Unit – II: Economics of Social Customs

1. Economics of rising age of marriage and declining family size.
2. How economic globalization is changing the Indian family.
3. Economics of gift-giving: why value of gift in kind is higher compared to gift in cash.
4. Application: Reasoning about economic Inequality between men and women

### Unit – III: Economics of Social Evils

1. Discrimination: Why discrimination can be “rational” and the economic harm it causes.
2. Pollution: The economic roots of the pollution problem.
3. Addiction: Economic case for legalizing drugs as solution to addiction.
4. Corruption – An Economists Perspective
5. Application: Why prohibition does more harm than good: An Economic Perspective.

### Unit – IV: Economics of Arts, Sports, and Science

1. Understanding the declining demand for performing arts from economic perspective.
2. Economics of Sports: Role of economic competition in sporting activity.
3. Economics and Science: What motivates scientific research?
4. Application: How economic Globalization and commercialization enrich Indian music.

### Unit – V: National Issues

1. The Union Budget and you – Taxes, Subsidies and Fiscal Deficit
2. How the stock market works – Bulls and Bears
3. The global economic crisis: Its origin and impact on India.
4. Application: Living through an economic downturn.

### Text and Reference Books

1. Robert J. Stonebraker (2005), *The Joy of Economics: Making Sense of Life*, Online book available free at <http://www.facutly.winthrop.edu.stonebraker/book.html>
2. Tim Harford (2000), *The Logic of Life: Discovering the New Economics of Everything*, (London: Little )



## ECO-305(1) ECONOMICS OF NATURAL DISASTERS

### Objectives

1. To make the students understand economic impact of natural disasters.
2. To teach them appropriate economic policies.

### Unit – I: Introduction

1. The goal of disaster economic analysis
2. Important terminology-hazard, vulnerability, disaster, disaster risk, mitigation, preparedness, rehabilitation and reconstruction.
3. Types of hazards - Natural hazards- Man made hazards

### Unit – II: Economic Effects of Disasters

1. Direct effects-Indirect effects -Secondary effects
2. Consequences of disasters - measurement of consequence -Tangible losses - Intangible losses

### Unit – III: Disaster Risk Reduction and Mitigation

1. Quantification of disaster risk: UNDP's Disaster Risk Index.
2. Components of disaster risk reduction –Role of market.
3. Integrating disaster risk in poverty reduction strategy and incorporating disaster risk in economic appraisal.
4. Vulnerability context - Source of Vulnerability - Tools for assessing hazard-induced Vulnerability - Vulnerability indicators.
5. Mitigation of economic and human impact.

### Unit – IV: Intervention Policies

1. Differences in intervention for natural and human – made disasters
2. Policy instruments for disaster intervention
3. Interventions for general multi – sectoral disasters - Disasters involving displaced populations - Disasters leading to food insecurity - Disaster expected from climate change.

### Unit – V: Finance Options

1. Debt swaps-Triangular food aid.
2. Disaster insurance
3. Revolving funds-Central bank assistance.

### Text Books

1. Ahmad, Ayaz: (2003), Disaster Management,(Anmol Publications. New Delhi).
2. Ghosh, G.K: (2007),Disaster Management; Saujanya Books.
3. Ross Bull (1994) Disaster Economics, UNDP, Disaster Management Training Programme.

### Reference Books

1. AgarwalS.K:(2006),*Perspectiveson Organisational Disaster Management*,(Indian Books).
2. Benson, Charlotte and John Tuigg: (2007), *Tool for Mainstreaming Disaster Reduction* Geneva: Prevention consortium (online ed) (unit-3).
3. Bull Ross: (1994), *Disaster Economics* UNDP, DHA, (online ed) .
4. Institution of Civil Engineers: (1995), *Modalities: Reducing vulnerability to Natural disasters*, (London: ODA.)
5. Kamal Taori: (2007), *Disaster Management Through Panchayat Raj*, (Concept Publishers).
6. Richard Sylves: (2008), *Disaster Policy and Politics*, (SAGE Publications.)
7. Satish Modh *Citizen's Guide to Disaster Management*: (2006), ( Macmillan Press India. )

## ECO-305(2) HUMAN RESOURCE DEVELOPMENT

### Objectives

1. To teach the students the importance of H.R.D as it helps everyone not only in workplace but in daily life.
2. To teach the “ manpower “ or “ Human resource may be thought of as “ the total knowledge, skills creative abilities , talents and attitudes of an organizational workforce , as well as the values , attitudes and benefits of an individual involved.
3. To know how to develop the existing Human Resources.

### Unit – I: Concepts

1. Human Resources – Meaning – Importance –Role of Human Resources in Development and Productivity – Capital formation and Skill formation – Factors influencing Human resource development – Internal and External

### Unit-II Education and H.R.D.

1. Role of education in Human Resource Development – Investment in Education- Rate of Return – Education and the Five Year Plans in India with special reference to women education.

### Unit –III Nutrition and Health

1. Economics of Public Health – Malnutrition- Indicators- Factors affecting Health – Preventive and Curative Service Investment in Public Health – Health policies of India with special reference to women health.

### Unit –IV Entrepreneurship

1. Role of entrepreneurship in Development the factors stimulating entrepreneurship- principles of entrepreneurship development of women entrepreneurship

### Unit-V Manpower Planning

1. Need and importance of Manpower Planning – Objective-Methods of Manpower planning – Manpower planning in India.

### Text Books

1. G.S.Becker (1995), Human Capital, ( Columbia University Press)
2. G.M.Meier (1995) , Leading Issues in Economic Development ( New Delhi: OxfordUniversity Press)
3. Suresh Chandra Shukla and Rekha Kaul (1998), Education , Development and under development ( Edited ) Sage Publication , New Delhi.

### Reference Books

1. Harbison (1980) , Education , Manpower and Economic Growth – Innovation and Entrepreneurship ( OxfordUniversity Press)
2. Mark Balug (1969) , Human Capital Theory , ( LondonOxfordUniversity Press)
3. Mark Balug (1969) , Education Volume I & II ( LondonOxfordUniversity Press)
4. B.R.Virman (1996) Economic Restructuring, Technology Transfer And Human Resource Development ( Sage Publications , New Delhi)

## **ECOE-405 (1) LABOUR ECONOMICS AND INDUSTRIAL RELATIONS**

### **Objectives**

1. To familiarize the students with the problems of labour and the stress and strains developed in Industrial economy.
2. To develop the analytical skills of the students identifying the problems of labour and settlement of industrial disputes and evaluate the conditions of Industrial relation.

### **Unit-I Introduction**

1. Concept of Labour and Labour Economics-Labour Problems.
2. Labour Market – Demand and Supply of Labour – Characteristics of labour market in India.
3. Recruitment Procedure and Employment Exchange.

### **Unit-II Organisation of Industrial Labour**

1. Role and functions of Trade Union
2. Theories of Trade Unionism (i) Webbs (ii) KarlMarx (iii) Gandhi
3. Trade Union Movement in India-Recent Trends-Justifications of Strikes and Lockouts.

### **Unit-III Industrial Disputes and International Labour Organisations(ILO)**

1. Industrial Disputes: Causes and Consequences
2. Industrial Disputes in India
3. ILO Purposes-Constitution-Functions-ILO and India.

### **Unit-IV Industrial Relation**

1. Need for Industrial Relation Machinery-Preventive and Curative methods-Collective Bargaining, Arbitration and Adjudications.
2. Industrial Democracy, concept of Workers participation in management
3. Role of State in Industrial Relations.

### **Unit-V Labour Welfare**

1. Labour Welfare concept, significance, classification, Principles and programmes.
2. Concept of Labour in India; Factory Act ,Labour Welfare Legislation in India.

### **Text Books**

1. Pant C.(1978) Indian Labour Problems,(Allahabad,Chaitanya Publishing House)
2. Singh S.S., and Metha S.(1989) Labour Economics,(Ajanta Prakasham New Delhi).
3. Singh V.N.(1980) Industrial Labour in India (Asia Publishing House,Bombay)
4. Tyagi P.B.(1995) Labour Economics and Social Welfare,(Jaiprakash Nath &Co.Meerut)

### **Reference Books**

1. Baholiwal T.N.(1981), Economics of Labour and Industrial Relations,(Sahity Bhawan, Agra)
2. Giri V.V.(1985) Labour Problems in Indian Industry (Asia Publishing House,Bombay)
3. Loster R.K.(1989) Economics of Labour and Industrial Relations (Macmillan & Co,New York).
4. Mehrotra S.M.(1976) Labour Problems in India (New Delhi,S.Chand & Co,Ltd)  
Saxena R.C. (1979), Labour Problems and Social Welfare,(K.Nath & Co.Meerut)

## ECO-405 (2) ENVIRONMENTAL AUDIT

### Objectives

1. This course is intended to introduce accounting skills to enable decision makers to evaluate the environmental strategy of a firm.
2. The course deals with various facets of environmental accounting such as economic valuation of environment, corporate environmental accounting and green national accounts.

### Unit – I: Approaches to Environmental Valuation

1. “Total Economic Value” of the Environment - Cost – Benefit Analysis
2. State Preference Approaches: Contingent Valuation Method
3. Revealed Preference Approaches: Travel Cost & Hedonic Pricing Method.
4. Production Function Approach: Dose-Response Model

### Unit – II: Environmental Risk and Environmental Impact Assessment

1. Assessing Environmental Risks - Choice Under Risk - Valuing Risks to life -Regulating Risk
2. Environmental Impact Assessment - Information Gathering - Impact Assessment and Mitigation Measures - EIA Report and Review

### Unit – III: Environmental Cost Accounting

1. Full Cost Accounting
2. Internal Environmental Cost Accounting
3. External Environmental Cost Accounting: Internalizing Externalities

### Unit – IV: Environmental Information Management

1. Life Cycle Assessment
2. Environmental Share Holder Value
3. Environmental Reporting - Environmental Audit

### Unit – V: Green National Accounts

1. Limitations of Conventional National Accounts
2. Genuine Savings - Environmentally Defensive Expenditures
3. Integrated Economic and Environmental Accounting (IEEA)

### Text and Reference Books

1. Hanley, Shogren and White (2001) *Introduction to Environmental Economics* (Oxford University Press).
2. Richard Welford (1996) *Corporate Environmental Management*, Chapter 7, 8, and 9.
3. Schaltegger, Burritt and Peterson (2003) *Corporate Environmental Accounting* (Greenleaf Publishing).