



ST.PHILOMENA'S COLLEGE (AUTONOMOUS), MYSURU
(AFFILIATED TO UNIVERSITY OF MYSORE & REACCREDITED BY NAAC WITH B⁺⁺ GRADE)

MA ECONOMICS PROGRAMME

CBCS with Learning Outcome Based Curriculum
Academic years: 2020-22

{Approved in the Academic Council Meeting held on 12.01.2021}

{The Academic Year of 2020-21 was commenced on 24.01.2021 due to first wave of Covid-19 Pandemic}





ST. Philomena's College (Autonomous) Mysore
Post Graduate Programmes

Course – MA in Economics

**CBCS with LOCF/ Learning Outcome Based Curriculum-
2020**

Preamble

The M.A Economics program was started in the year 2015-16. The curriculum was first revised in the academic year 2018-19. The present revision is the second one and finalized after subjecting for peer review from the academicians, alumni, and industry experts. It is focused on learners centric and learning outcome-based. The curriculum is focused on Programme Educational Objectives (PEOs), Programme Outcomes (POs), Programme Specific Outcomes (PSOs), Course Objectives (COs) and Course Learning Outcome (CLOs). The curriculum is designed to have a teaching and learning process involving technological tools, sharing of resources by industry with the institution. The learning-centric curriculum provides and enables a continuous improvement of curriculum, teaching-learning process, teaching resources, assessment methods, evaluation rubrics, validity, and reliability of the evaluation.

The curriculum is designed with compulsory Discipline Specific courses and choice based Discipline-Specific Electives courses like skill-enhancing, interdisciplinary, ability-enhancing, generic, and self-study. The students will acquire knowledge and skill to build learner competencies and become self-learners

The following new courses are introduced in the revised syllabus for the academic year 2020-21 onwards.

Sl. No	Semester	Existing Paper	New Paper Introduced	Credits	Justification	Percentage of Change
1	Second	-	Review of Literature	2	To promote research culture and to train the publication of articles.	100
2		-	Data Collection Techniques	2	To gain hands-on experience on different types of data collection and its presentation.	100

Sl. No	Semester	Existing Paper	New Paper Introduced	Credits	Justification	Percentage of Change
3		-	Energy Economics SC-Ability Enhancement Course	4	To make the students to understand the significance and role of Energy in economic development and to make efficient use of energy.	100
4		-	Basic Econometrics SC - IDC offered to the sister department	4	To understand econometrics application to the business models. Students can forecast the business situations and take decisions.	100
5		-	Environmental Economics SC - IDC offered to the sister department	4	To introduce economics principles related to environmental economics.	100
6		-	Economics of Tourism SC - IDC offered to the sister department	4	To understand and evaluate the concept tourism and its impact on economics development.	100
8		-	Banking System in India OE	2	To understand and evaluate the role of banking system on Indian economy.	100
9			Infrastructural Economics SC/GC	4	To understand the concept and importance of social infrastructure and quality of living.	100
10		-	Statistics for Economics	2	To understand and apply the different statistical techniques for analyzing the data.	100

11		-	Demography OE	2	To provide knowledge about economic and social implications of sex and age structure and demographic dividend.	100
12	Fourth	-	Human Development : Dimensions and Disparities	4	To understand and analyse the relationship between economic growth and human development	100
13		-	Data Interpretation techniques	2	To evaluate and apply the economic models for economics problems and hypothesis testing.	100

SOFT-CORE GENERAL COURSES OFFERED TO THE MA ECONOMICS STUDENTS

Sl. No	Semester	Title of the paper	Type	Credits	Percentage
1	Second	Energy Economics	SC-GE	4	100
2	Third	Infrastructural Economics	SC-GE	4	100
3	Fourth	Human Development : Dimensions and Disparities	SC-GE	4	100

SELF STUDY ABILITY ENHANCEMENT COURSES OFFERED TO THE MA ECONOMICS STUDENTS

Sl. No	Semester	Title of the paper	Type	Credits	Percentage
1	Second	Review of Literature	SC-Self Study	2	100
2		Data Collection Techniques	SC-Self Study	2	100

NEW INTERDISCIPLINARY COURSES OFFERED TO SISTER DEPARTMENT

Sl. No	Semester	Title of the paper	Type	Credits	Percentage
1	Second	Econometrics for Business	SC-ID	4	100
2		Environmental Economics	SC-ID	4	100
3		Economics of Tourism	SC-ID	4	100

SOFT-CORE SKILL BASED COURSES OFFERED TO MA ECONOMICS STUDENTS

Sl. No	Semester	Title of the paper	Type	Credits	Percentage
1	Third	Statistics For Economics	SC-Skill	2	100
2	Fourth	Software Usage for Economics	SC-Skill	2	100
3		Data Interpretation techniques	SC-Skill	2	100

NEW GENERIC ELECTIVE COURSES OFFERED TO OTHER DEPARTMENTS

Sl. No	Semester	Title of the paper	Type	Credits	Percentage
1	Third	Banking System in India	SC-OE	2	100
2	Fourth	Demography	SC-OE	2	100

VISION AND MISSION OF THE COLLEGE

VISION:

The college is guided by the visionary zeal of providing value- based education to everyone irrespective of religion, caste, creed or sex by which the character is formed, intellect is explained and one can stand on his/ her feet

MISSION:

To transform young men and women who come to learn not from books, but also from life and to share the experience of working and playing together, this inculcates life skills to become good citizens with integrity and discipline.

VISION AND MISSION OF THE DEPARTMENT

VISION:

The department envisions achieving excellence in teaching and significant research to provide quality education to students, and prepare professional leaders to address the emerging global economic and social challenges.

MISSION:

1. To prepare students for acquiring applied knowledge of economics to enhance their employability and entrepreneurship.
 2. To equip students with skills to formulate and implement theoretical and applied research work that will contribute to knowledge for nurturing future researchers and specialists in economics.
 3. To provide a vibrant and innovative environment for students to acquire knowledge necessary for developing themselves into qualified professionals.
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PEO. No.	Programme Educational Objectives (PEOs)
PEO-1	PROFESSIONAL DEVELOPMENT To train the students to acquire applied knowledge in economics and apply professionally and ethically with responsibility towards the need of the society
PEO-2	CORE PROFICIENCY To expertise the students to organize, understand, evaluate, and solve problems by providing hands-on experience through modern tools and techniques for necessary practice.
PEO-3	TECHNICAL ACCOMPLISHMENTS To equip the students with the talent to interpret in core applications by building up a multi-disciplinary concept.
PEO-4	PROFESSIONALISM To train the students to acquire the significance of self-discipline, communication skills, professional attitude, holistic personality development, responsibility and team work to be a better economist.
PEO-5	LEARNING ENVIRONMENT To provide an environment for life-long learning to inculcate the importance of research, creativity, invention and leadership to become a successful economist.

Mapping of Mission of the department with Programme Educational Objectives

Mission	Programme Educational Objectives (PEOs)				
	PEOs-1	PEOs-2	PEOs-3	PEOs-4	PEOs-5
M1	✓	✓		✓	
M2	✓		✓		
M3				✓	✓

PO. No.	PROGRAMME OUTCOMES (POs) Upon completion of the Programme the student will be able to -
PO-1	Analyze the Socio-Political and Economic Issues related to national and international scenario.
PO-2	Create the capacity to Work effectively in a multi-disciplinary environment.
PO-3	Understand their research culture leading to the publication of articles and research article from the projects/subjects for hands-on experience.
PO-4	Understand how the economic policies affect the common people through the societal interactions.
PO-5	Empower with a holistic approach in professional attitude towards ethical issues, teamwork, responsibility and accountability for a better career

PROGRAMME SPECIFIC OUTCOMES PSOs	
PSO No.	Upon completion of the Programme the student will acquire -
PSO-1	Knowledge in depth about Micro and Macro Economics.
PSO-2	Knowledge and analyze fiscal policy, Monetary policy, Welfare policies and its implications in the economy.
PSO-3	Qualitative and quantitative techniques, Data analysis, and interpretation skills by using SPSS, Eviews, STATA, and Tally Software are used for hands on experience.
PSO-4	Training in handling research tools and techniques and ethics as well as publishing skills of research articles.
PSO-5	To understand the international trade and finance, Human development Index, MDG"s and SDG"s, Economic and Environmental Development.

MAPPING OF PROGRAMME EDUCATIONAL OBJECTIVES WITH PROGRAM OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

PROGRAMME EDUCATIONAL OBJECTIVES	PROGRAM OUTCOMES					PROGRAM SPECIFIC OUTCOMES				
	PO-1	PO-2	PO-3	PO-4	PO-5	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
PEOs-1	✓							✓		
PEOs-2			✓			✓				
PEOs-3		✓						✓		
PEOs-4					✓			✓		✓
PEOs-5				✓			✓		✓	



M.A ECONOMICS COURSE STRUCTURE

**CHART INDICATING DISTRIBUTION OF HARDCORE, SOFT CORE AND OPEN/
GENERIC ELECTIVES AND CREDITS ACCORDING TO CHOICE BASED LEARNING
OUTCOME BASED CURRICULUM/LOCF. SEMESTER-WISE DISTRIBUTION**

FIRST YEAR

Sl. No	Subject Code	QP .Code	Course Title	Type	L	T	P	Credits	Total Credits
FIRST SEMESTER									
1.			Advanced Micro Economics	HC	4	0	0	4	20
2.			Advanced Macro Economics	HC	4	0	0	4	
3.			Mathematics and Statistics for Economists	HC	4	0	0	4	
4.			Development Economics	HC	4	0	0	4	
5.			Any one of the Soft-Core General Elective courses to be chosen from List A	SC	4	0	0	4	
SECOND SEMESTER									
6.			Indian Economy	HC	4	0	0	4	20
7.			Public Economics : Theory & Policy	HC	4	0	0	4	
8.			Any one of the Interdisciplinary Elective courses from sister department to be chosen List-D	SC	4	0	0	4	
9.			Any one of the Generic Elective course from other department to be chosen.	GE	2	0	0	2	
10.			Any one of the Self Study Elective courses to be chosen from List B	SC	2	0	0	2	
11.			Any one Ability Enhancement Courses to be chosen from the List C	SC	4	0	0	4	

SECOND YEAR									
THIRD SEMESTER									
12.			Research Methodology and Data Analysis	HC	3	0	2	4	20
13.			International Trade - Theory & Policy	HC	4	0	0	4	
14.			Theory of Econometrics	HC	4	0	0	4	
15.			Any one of the Soft-Core General Elective course to be chosen from List E.	SC	4	0	0	4	
16.			Any one of the Generic Elective course from other department to be chosen.	SC	2	0	0	2	
17.			Any one of the Skill Enhancing Elective course to be chosen from the List F	SC	1	0	2	2	
FOURTH SEMESTER									
18			International Finance & Business	HC	4	0	0	4	18
19.			Managerial Economics	HC	4	0	0	4	
20.			Welfare Economics	HC	0	0	8	4	
21.			Any one of the Soft-Core General courses to be chosen from List G.	SC	4	0	0	4	
22			Any one of the Skill Enhancing Elective course to be chosen from the List H	SC	1	0	2	2	
TOTAL CREDITS = 78 REDITS									

**SEMESTER WISE SOFT- CORE ELECTIVE PAPERS OFFERED TO
M.A ECONOMICS STUDENTS**

List A- Soft-Core General Courses						
S. I No	Semester	Title of the paper	L	T	P	Credits
1	First	Monetary Economics	4	0	0	4
2		Agricultural Economics	4	0	0	4
3		Economics of Health	4	0	0	4

List B- Soft-Core Self Study Courses						
S. I No	Semester	Title of the paper	L	T	P	Credits
1		Review of Literature	2	0	0	2

2	Second	Data Collection Techniques	2	0	0	2
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List C- Soft-Core Ability Enhancement Courses						
S. I No	Semester	Title of the paper	L	T	P	Credits
1	Second	Financial Economics	4	0	0	4
2		Gender Economics	4	0	0	4
3		Energy Economics	4	0	0	4

INTERDISCIPLINARY COURSES OFFERED TO SISTER DEPARTMENT

List D- Soft-Core Interdisciplinary Courses						
S. I No	Semester	Title of the paper	L	T	P	Credits
1	Second	Basic Econometrics	4	0	0	4
2		Environmental Economics	4	0	0	4
3		Economics of Tourism	4	0	0	4

List E- Soft-Core General Courses						
S. I No	Semester	Title of the paper	L	T	P	Credits
1	Third	Natural Resources and Environmental Economics	4	0	0	4
2		Labor Economics	4	0	0	4
3		Infrastructural Economics	4	0	0	4

List F- Soft-Core Skill Based Courses						
SI.No	Semester	Title of the paper	L	T	P	Credits
1	Third	Computer Application for Economics	2	0	0	2
2		Statistics For Economics	2	0	0	2

List G- Soft-Core General Courses						
S. I No	Semester	Title of the paper	L	T	P	Credits
1	Fourth	Term Project	4	0	0	4
2		Applied Econometrics	4	0	0	4
3		Human Development : Dimensions and Disparities	4	0	0	4

List H- Soft-Core Skill Based Courses						
S. I No	Semester	Title of the paper	L	T	P	Credits
1	Fourth	Software Usage for Economics	2	0	0	2
2		Data Interpretation techniques	2	0	0	2

SEMESTER WISE OPEN ELECTIVE COURSES OFFERED TO OTHER DEPARTMENT

Sl. No	Semester	Title of the paper	L	T	P	Credits
1	Second	Indian Economy	2	0	0	2
2		Banking System in India	2	0	0	2
1	Third	Demography	2	0	0	2
2		Environmental Economics	2	0	0	2

PROGRAMME: M.A.ECONOMICS
(For Candidates admitted during the Academic year 2020 onwards)

I SEMESTER

Course Title	ADVANCED MICROECONOMIC						
Course Type	Hard Core- Theory	Total Hours	64	Hours/Week	04	Credits	04
Course Code	Evaluation	Internal	C1+C2 = 15+15			30 Marks	100
		External	Duration	C3	03Hrs	70 Marks	
CO No.	Course Objectives (COs) On completion of the course the student will be able						
CO-1	To Analysis the cost conditions of the industries						
CO-2	To Understand the market conditions and make decision in market						
CO-3	To Understand the concept of input output analysis						
CO-4	To Insist an entrepreneurial skill among the students						
Mapping of CLOs with PSOs & CDLs							
CLOs No.	Course Learning Outcomes(CLOs)			PSOs	CDLs		
	On completion of the course the student will learn to			Addressed			
CLO-1	Understand and analyze the behavioral patterns of Consumers and Markets.			PSO-1	Analyse		
CLO-2	Apply and evaluate the Cost of Capital Techniques in a Production.			PSO-3	Evaluate		
CLO-3	Analyse Linear & Non- Linear functional relationship			PSO-4	Analyse		
CLO-4	Understand price determination of factors (Rent, wages, interest and Profit.) and social welfare function.			PSO-2	Understand		
CLO-5	Evaluate the externalities effect on the different market conditions.			PSO-5	Evaluate		

Course Content

Duration

Module I: Theory of Consumer Behavior

16 Hrs

- 1.1 Introduction: Historical Development of the Theory
- 1.2 Indifference Curve Analysis
- 1.3 Revealed Preference Hypothesis
- 1.4 Consumer's Behavior under Conditions of Uncertainty and Risk
- 1.5 Lancaster's Theory.

Keywords: Analyze the behavioral patterns of Consumers and Markets.

Module II: Theory of Demand and Supply

16Hrs

- 2.1 Theory of demand-Derivation Demand Schedules -Factors Influencing Demand
- 2.2 Elasticity of Demand (Applications) - Changes in Demand and Changes in Quantity Demanded -Price Elasticity - Income Elasticity- Cross Elasticity.
- 2.3 Recent Developments in the Theory of Demand - Linear Expenditure System.Demand for the Product of a Firm.
- 2.4 Theory of Supply -Factors Influencing Supply -Changes in Supply - Supply Elasticity- Determinants of Supply Elasticity- Market Determination of Price and Quantity- Equilibrium Supply and Demand - (Applications).

Keywords: Evaluate the Cost of Capital Techniques in a Production.

Module-III: Production and Cost Analysis

16Hrs

- 3.1 **Production Theory:** Production Function with One Variable Input and Two Variable Inputs
- 3.2 Optimal use of Variable Inputs and Optimal Combination
- 3.3 Empirical Production Function – Cobb-Douglas production function - CES production function
- 3.4 Technology and International Competition
- 3.5 **Cost Theory**
- 3.6 Short-Run Cost Function and Cost Curves, Long-Run Cost Curves
- 3.7 Economics of Scale and Economies of Scope
- 3.8 Learning Curve
- 3.9 Empirical Cost Functions

Keywords: Analyse Linear & Non- Linear functional relationship

Module-IV: Price and Output Determination under Different Markets

16Hrs

- 4.1 **Perfect Competition:** Equilibrium of the Firm under Market Period, Short-Run and Long- Run - Constant, Increasing and Decreasing Cost - Industries - Equilibrium of the Firm and Industry.
- 4.2 **Pure Monopoly:** Demand and Marginal Revenue under Monopoly - Short-Run and Long- Run Equilibrium - Cost of Monopoly to Society - Price Discrimination
- 4.3 **Imperfect Competition:**
Monopolistic Competition: Fundamentals - Short-Run and Long-Run Equilibrium - Product Differentiation - Resource Allocation and Utilization - Selling Cost: Case Study.
- 4.4 **Oligopoly:** Chamberlin Model – The Kinked Demand Curve Model – The Centralized and Market Sharing Cartel Model – Price Leadership – Collusive Oligopoly – Oligopoly and Price Rigidity
- 4.5 The Marginalist Controversy- Bain’s Limit Pricing Theory and its Recent Developments -Sylos – Labini’s Model -Behavioural Model of The Firm-Game Theoretic Model

Keywords: Evaluate the externalities effect on the different market conditions.

Note: Course content involves 100% Theory

Self-Study Component:

Historical development of the consumer theory - cardinal versus ordinal Utility theory. The Law of Demand-Elasticities of Demand–Demand Schedule -Supply Schedule-Equilibrium Supply and Demand

Production Theory - Returns to Scale-nature and types of costs-theory of firm Equilibrium of the firm and the industry- Characteristic features of Perfect competition, Monopoly, Monopolistic Competition-Price and output determination under different market conditions.

Reference Books

Sl. No	Title of the book	Author	Publisher	Edition	Year
1	Modern Microeconomics	Koutsoyiannis,	Macmillan, London	5 th	1997
2	Principles of Microeconomics , latest edition	N.GragoryMankiw,	The Dryden Press	7 th	2019
3	Theory and Problems of Microeconomic	Dominick Salvator	Schaum’s Outline Series, McGraw-Hill Book Company	12 th	2002
4	Microeconomics	Pindyck Robert S., and Daniel L. Rubinfeld,	Pearson Prentice Hall.	7 th	2006
5	Advanced Economic Theory	Ahuja H.L	S.Chand and Company	19 th	2002
6	Principles of Economics	McConnell R. and Stanley L. Brue	Tata McGraw Hill Inc	16 th	2005
7	Microeconomics	Hubbard R. Glenn and Anthony Patrick O’Brien	Pearson Prentice Hall	2 th	2016

I SEMESTER

Course Title		ADVANCED MACROECONOMICS					
Course Type	Hard Core Theory	Total Hours	64	Hours/Week	04	Credits	04
Course Code	Evaluation	Internal	C1+C2=15+15			30Marks	
		External	Duration	C3	03 Hr	70 Marks	100
CO No.	Course Objectives (COs)						
	On completion of the course the student will be able to						
CO-1	Understand the concepts of national income and accounting.						
CO-2	Familiarize the students, the basic difference between the classical and Keynesian Theories.						
CO-3	Understand the theoretical structure of macroeconomics its very essential for the Students to analyze the different issues and policies in the real economy.						
CO-4	Understand about Inflation, Unemployment problem and knowledge about Business cycle.						

Mapping of CLOs with PSOs & CDLs			
CLOs No.	Course Learning Outcomes (CLOs) On completion of the course the student will learn to	PSOs Addressed	CDLs
CLO-1	Understand of national income accounting.	PSO-1	Understand
CLO-2	Understand and analyse classical & Keynesian theories of output and employment.	PSO-2	Analyze
CLO-3	Evaluate the consumption and Investment functions.	PSO-3	Evaluate
CLO-4	Apply the business cycle theories in the economy.	PSO-4	Apply
CLO-5	Understand various macroeconomic problems.	PSO-2	Understand

Course Content

Duration

Module 1: National Income Accounting

12Hrs

- 1.1 Measurement of National Income and Macro Performance
- 1.2 National Income Accounts- Accounting Concepts & Identities
- 1.3 Green accounting
- 1.4 GNP and Quality of Life measuring the cost of Living
- 1.5 Importance of National Income Analysis

Keywords: *Understand of national income accounting*

Module-II: Classical Theory of Income and Employment

14Hrs

- 2.1 The Classical Revolution -Basic Assumptions of the Classical School
- 2.2 Determinants of Output, Employment, Savings, Investment, Wages, Prices, Interest Rate
- 2.3 Equilibrium Output and Employment

Keywords: *Analyse classical & Keynesian theories of output and employment*

Module-III: Keynesian Theories of Income and Employment

14Hrs

- 3.1 **Concept of Effective Demand:** Aggregate Demand and Aggregate Supply
- 3.2 **Consumption Function and its Determinants:** Implications of Consumption Function.
- 3.3 Alternative Theories of Consumption Behaviour –Friedman’s theory of consumption. Franco Modigliani and the Life-Cycle Hypothesis - Robert Hall and the Random- Walk Hypothesis.
- 3.4 **Investment Function and its Determinants:** Business Fixed Investment, Residential Investment, Inventory Investment - Equilibrium Income and Output in SimpleTwoSectorModel, ThreeSectorandFourSectorModels- Multiplierand Accelerator Analysis - Relevance and Critique of Keynesian Macroeconomics.

Keywords: *Evaluate the consumption and Investment function*

Module –IV: Business Cycle Theory: The Economy in the Short-Run

12Hrs

- 4.1 **Introduction to Economic Fluctuations:** Time Horizons in Macroeconomics -Aggregate Demand - Aggregate Supply - Stabilization Policy.

- 4.2 **Aggregate Demand:** Goods Market and the *IS* Curve - Money Market and the *LM* Curve.
- 4.3 Explaining Fluctuations with the *IS-LM* Model - *IS-LM* as a Theory of Aggregate Demand - The Great Depression.
- 4.4 Aggregate Demand in the Open Economy: Mundell-Fleming Model with Changing Price Level.
- 4.5 **Aggregate Supply:** Three Models of Aggregate Supply: Sticky-Wage Model, Imperfect-Information Model, Sticky-Price Model - Inflation, Unemployment and the Phillips Curve. Edmond Phelps on Phillips Curve.
- 4.6 **Macroeconomic Policy Debates:** Stabilization Policy.

Keywords: *Apply the business cycle theories in the economy*

Note: Course content involves 100% theory

Self-Study Components

1. Central Themes of Macroeconomics
2. Functional relationships & Identities
3. Methods of National Income Estimation
4. Trends in India's National Income
5. Problems in the estimation of India's National Income
6. Says Law of Markets. OTM, Pigouvian Theory, Real Theory of Interest.
7. Determinants of the PC and Investment
8. MEC & its determinants
9. Investment Multiplier Accelerator
10. Alternative theories of consumption behavior.
11. Causes & Consequences of economic fluctuations
12. Theories of inflation.

References:

Sl. No	Title of the book	Author	Publisher	Edition	Year
1	Macroeconomic Analysis	Shapiro Edward	Galgotia Publications	First	2004
2	Macroeconomics	Rudiger Dornbusch, Stanley Fisher and Richard Startz	Tata Mcgraw-Hill Publishing	Fifth	2004
3	Macroeconomics	Mankiw N Gregory	Worth Publishers	12 th Edn	2014
4	Advanced Macroeconomics	David Romer	McGraw Hill	9 th Edn.	2001
5	Macroeconomics: Theory and Policy	Ackley Gardner	Macmillan	5 th Edn	2010
6	Macroeconomics	Blanchard Oliver	Blanchard Oliver	latest	2018

I SEMESTER

Course Title		MATHEMATICS AND STATISTICS FOR ECONOMISTS					
Course Type	Hard Core- Theory	Total Hours	64	Hours/Week	04	Credits	04
Course Code	Evaluation	Internal	C1+C2 = 15+15			30 Marks	
		External	Duration	C3	03Hrs	70 Marks	
CO No.	Course Objectives (COs)						
	On completion of the course the student will be able to						
CO-1	Provide quantitative skills to collect, analyse and interpret the analytical data.						
CO-2	Give basic mathematical and statistical techniques for economic students.						
CO-3	Understand the different techniques for analyzing the data.						
CO-4	Provide various tools which helps for decision making						
Mapping of CLOs with PSOs & CDLs							
CLOs No.	Course Learning Outcomes(CLOs)			PSOs	CDLs		
	On completion of the course the student will learn to			Addressed			
CLO-1	Gives the mathematical and statistical methods to analyze and understand economic theories.			PSO-3	Understand		
CLO-2	They get analytical skills, market prediction and cause and effect relationship between the variables.			PSO-1	Analyze		
CLO-3	Analyse the difference between the linear and non-linear functions			PSO-3	Analyze		
CLO-4	Able to analyse to take decisions and forecast the economic variables			PSO-4	Analyze		
CLO-5	Gives an idea about how to utilize the optimum resources.			PSO-2	Understand		

Course Content

**Duration
12 Hrs.**

Module: I Equilibrium

- 1.1 Meaning of equilibrium, Partial market equilibrium-A linear and non-linear functions
- 1.2 Solution of a general equation system
- 1.3 Equilibrium in national income analysis- Aggregate demand and aggregate supply functions- Consumption function- Cost function-

Keywords: *Understand and Analyse application mathematical and statistical methods to economic theories.*

Module: II Calculus

24Hrs

- 2.1 Differential techniques and Rules-Maxima and Minima of function-
Integration techniques- Introduction to Differential Equations
- 2.2 **Utility analysis** - Maximization of utility - Mathematical derivation of consumers' equilibrium- Demand elasticity and estimation, Relationship – MR, AR and elasticity- Consumer's Surplus
- 2.3 **Production Analysis:** Production function- Revenue function-Cost function- Producer's Surplus- Cobb-Douglas production function-CES Production Function, -Euler's theorem

- 2.4 **Theory of Firms' Behavior:** Equilibrium of firms and profit maximization, -Homogenous Function-Monopoly and joint production, - Duopoly-Producers' surplus -Cob-web model -Multi-market equilibrium.
- 2.5 **Vector and Matrices** – Basic concepts, types of matrix, elementary operations, Inverse matrix- Solving a system of linear equations- Testing consistency of linear equation

Keywords : *Analyse and prediction of different types of market and also cause and effect relationship between the variables.*

Module: III Correlation and Regression

14 Hrs.

- 3.1 Meaning and Types of Correlation, Scatter diagram Correlation coefficient- Pearson's correlation-Spearman's Rank Correlation Coefficient
- 3.2 Regression Method – Linear regression method - Two variables- Multiple Regression

Keywords: *Analyse the difference between the linear and non-linear functions*

Module: IV Index Numbers

- 4.1 Types and Measure of Index Numbers, Price index, Retail price index, Quantity index Link and Chain- Relative uses of index numbers- Deflating the index numbers
- 4.2 Method of construction of index numbers- Computation of Index numbers– Laspeyres's, Paache's Index numbers- Marshall- Edgeworth Index numbers – Fisher's Aggregate method- Limitation of index numbers

14 Hrs.

Keywords: *Able to analyse to take decisions and forecast the economic variables*

Note Course content involves 20% of theory and 80% of Problems.

Self-study components

1. Applicability of mathematical and statistical tools to other disciplines, Inductive and Deductive reasoning, Axiom system, Logic meaning of necessary and sufficient conditions, sets and relations, number system, Algebra –Function and limits -linear and non- linear functions, exponential function, logarithmic function., Analytical Geometry, Simultaneous equation and solutions for two variables.
2. Differentiation and Integration – Derivative, rules of differentiation, functions of several variables, partial derivatives, total derivative.
3. Types of Data, Nominal data, Ordinal data, qualitative data and quantitative data, Discrete and Continuous data, Sources of data, Population and Samples,
4. Standard normal t, X^2 and F distributions.

References:

Sl. No	Title of the book	Author	Publisher	Edition	Year
1	An Introduction of Mathematical Economics	Bose D	Himalaya Publishing House	-	2018
2	Mathematics and Statistics for Economics (New Delhi)	Monga G S,Vikas	Publishing House	-	2000.
3	Theory and Problems of Microeconomic	Dominick Salvator	Schaum's Outline Series, McGraw-Hill Book Company	12 th	2002
4	Microeconomics	Pindyck Robert S., and Daniel L. Rubinfeld,	Pearson Prentice Hall.	7 th	2006
5	Advanced Economic Theory	Ahuja H.L	S.Chand and Company	19 th	2002
6	Mathematical Analysisfor Economists,	Allen R.G.D	Macmillan		

I SEMESTER

Course Title	DEVELOPMENT ECONOMICS						
Course Type	Hard Core Theory	Total Hours	64	Hours/Week	04	Credits	04
Course Code	Evaluation	Internal	C1+C2=15+15		30Marks		100
		External	Duration	C3	03 Hr.	70 Marks	
CO No.	Course Objectives (COs) On completion of the course the student will be able						
CO-1	To familiarizes the basic theories, approaches and problems of economics of development and planning.						
CO-2	To analyse the basis of inequality measurement is used to develop measures of in equality between nations.						
CO-3	The course proceeds to aggregates models of growth and cross-national comparisons of the growth experience.						
CO-4	To understand the theories of neo classical growth and partial theories of economic growth and development.						
Mapping of CLOs with PSOs & CDLs							
CLOs No.	Course Learning Outcomes(CLOs) On completion of the course the student will learn to			PSOs Addressed	CDLs		
CLO-1	Understand the differences between Economic growth and Development, Indicators of Economic Development.			PSO-5	Understand		
CLO-2	Analyse the inequality measures and Characteristics of Developing Countries.			PSO-1	Analyze		

CLO-3	Understand Constraints on Development Process.	PSO-5	Understand
CLO-4	Understand theories and Approaches of economic development.	PSO-5	Understand
CLO-5	Evaluate some growth models.	PSO-2	Evaluate

Course Content

Duration
12 Hrs.

Module: I Introduction to Development Economics

- 1.1 Measuring Economic Development, Concept of Human Development
- 1.2 Human Development Index
- 1.3 Human Capability Approach to Development
- 1.4 Development versus Displacement.
- 1.5 Sustainable development

Keywords: *Understand the differences between Economic growth and Development, Indicators of Economic Development.*

Module-II: Theory of Poverty and Income Distribution

14Hrs

- 2.1 Growth and Distribution Justice – Kuznets’s Hypothesis
- 2.2 Poverty and its Measurement - Poverty Alleviation Measures - Vicious Circle of Poverty
- 2.3 Development Gap - Causes, Consequences and Measures to Reduce Development Gap
- 2.4 Measuring income distribution- Lorenz curve, Gini Co-efficient & functional distribution of income.

Keywords: *Analyse the inequality measures and Characteristics of Developing Countries.*

Module-III: Grand Theories of Economic Growth and Development

14Hrs

- 3.1 Classical Theory of Economic Development and its Salient Features
- 3.2 **Theories of growth** :Adam Smith’s & David Ricardo’s
- 3.3 Karl Marx: Growth and Decay of Capitalism, Theory of Social Change, Surplus Value Theory, Reserve Army and Materialistic Interpretation of History
- 3.4 Schumpeter’s Growth Theory: Capitalistic Development, Crisis in Capitalism, Innovation, Degeneration of Capitalism

Keywords: *Understand Constraints on Development Process*

Module-IV: Neo-Classical Growth Theories and Partial theories of Economic Growth and Development

12Hrs

- 4.1 Stylized Factors of Neo-Classical Growth Theory
- 4.2 J.E. Meade’s Growth Model- Harrod- Domar Model –Kaldor & Mirrlees Model- Mrs. Joan Robinson’s Model
- 4.3 Cambridge Criticism of Neo-Classical Growth Model- Lewis Model
- 4.4 Salient Features of Partial Theories
- 4.5 Big-push and Critical Minimum Effort Thesis
- 4.6 Balanced and Unbalanced Growth Theories

Keywords: Evaluate some growth models

Note: Course content involves 100% of theory.

Self-Study Components

- 1: Concept of Development Economics- Evolution of Development Economics –Definitions & meaning of Economic development .Calculation of HDI, GDI, GEM, HPI, Human Deprivation Index.
- 2: Measures of Development distance – NIEO – review of latest world development Report to know the current position of global development status.
- 3: Failure of Marxism – A critique – relevance of Schumpeter in globalization context Technology as the driving force under globalization – ICT revolution and Human development.
- 4: Recording the grievances of small & marginal farmers – Meeting few Industrialists & recording their problems in the context of globalization – meeting local exporters & listing the barriers to export – panel discussion on commercialization of service sector.

References

Sl. No	Title of the book	Author	Publisher	Edition	Year
1	Growth & Development	Thirlwall A.P,	West press Pvt. Ltd.		
2	Economic Development in the 3th World,	Todaro M.P & Smith	Orient & Longman	2 nd	2007
3	Development Economics,	Ray Debraj	Princeton university press	Latest	1998
4	Leading Issues in Economic Development	Meier M Gerald,	Oxford New York	Latest	2004
5	Economic Development – Theory Principles &History	Higgins Benjamin W.W Norton	New York	---	1999
6	Economics of Growth, Development &Planning	Srivastava O.S	Vikas publication	6 th	1996
7	Frontiers of Development Economics	G.M Meier & Josephs E. Stiglitz	Oxford University Press	4 th	2002
8	Paradigm of Development Economics	Rajanikanth	--	2 nd	2003
9	Economic Development – Theory & Practice for divided World	Stuart R. Lynn Printice Hall	New Jersy		2003
10	Economic Growth	Robert J. Barro & Xavier Sale I Martin	McGraw Hill	3 rd	2010

I SEMESTER

Course Title		MONETARY ECONOMICS					
Course Type	Soft Core- Theory	Total Hours	64	Hours/Week	04	Credits	04
Course Code	Evaluation	Internal	C1+C2 = 15+15			30 Marks	
		External	Duration	C3	03Hrs	70 Marks	
CO No.	Course Objectives (COs) On completion of the course the student will be able						
CO-1	To Understand measures of money supply ,theories of demand for money and the concepts of National income						
CO-2	To analyze the nature of classical & Keynesian theories of employment						
CO-3	To stimulate an awareness on macroeconomic challenges and policy management in progressive nations						
CO-4	To understand Fiscal policy and crowding out effect, Optimum Policy mix with IS-L M Model.						
Mapping of CLOs with PSOs &CDLs							
CLOs No.	Course Learning Outcomes(CLOs) On completion of the course the student will learn to			PSOs Addressed	CDLs		
CLO-1	Understands the operations of money, interactions between monetary aggregates and real aggregates, monetary policy interventions.			PSO-1	Understand		
CLO-2	Understand and analyze the determinants and measures of money supply and its role in causing the business cycles.			PSO-4	Analyze		
CLO-3	Knowledge of the monetary policy formulations, its targets and objectives and to create an interest in the recent monetary reforms initiated in India			PSO-2	Apply		
CLO-4	Gives the monetary forces operate through a multitude of channels viz., markets, non-markets, institutions and the State.			PSO-5	Analyze		
CLO-5	Attempt is made to give an insight to the present global financial crisis.			PSO-5	Understand		
Course Content							Duration
Module: I Money and the Economy							12 Hrs.
1.1	Money and Economy Linkages						
1.2	Money Supply and Money Demand - Concepts and Measures.						
1.3	Theories of money demand: Quantity Theory of Money -Classical and Keynesian Version of the Quantity Theory of Money-Milton Friedman's Reformulation of Quantity Theory of Money –Tobin's Portfolio Analysis - Monetarism V/s Keynesianism						
1.4	Liquidity Approach to Monetary Theory: General Liquidity: Concept and Definitions, Radcliffe - Sayers Thesis- Gurley - Shaw Thesis						
1.5	Implications of Monetary Policy.						
Keywords: Understands the operations of money, interactions between monetary aggregates and real aggregates, monetary policy interventions.							

Module: II Theories of Interest		14Hrs
2.1	Keynesian Theory of Liquidity Preference	
2.2	Hicks-Hansen <i>IS-LM</i> Approach to General Equilibrium	
2.3	Factors affecting the Equilibrium Rate of Interest	
2.4	Implications of these Theories for Monetary Policy.	
Keywords: Analyze the determinants and measures of money supply and its role in causing the business cycles.		
Module: III Inflation: Theories and Policies		12Hrs
3.1	Theories of Business cycle	
3.2	Theories of Inflation : Demand-Pull and Cost-Push Theories of Inflation - Social Costs of Inflation- Hyperinflation	
3.3	Phillips Curve - Monetarist, Keynesian and New Classical Views on Inflation and Unemployment- Fisher's Effect	
3.4	Inflation and Interest Rates-Real and Nominal Interest Rates	
3.5	Classical Dichotomy	
Keywords: Apply the knowledge of the monetary policy formulations, its targets and objectives and to create an interest in the recent monetary reforms initiated in India		
Module: IV Monetary Policy		12Hrs
4.1	Introduction - Objectives of Monetary Policy	
4.2	Exchange Rate Stability - Price Stability- Price Policy	
4.3	Time Lags in the Monetary Policy -Limitations of Monetary Policy	
4.4	Efficiency of Monetary Policy	
4.5	Co-ordination between Instruments and Objectives of Monetary and Fiscal Policies.	
Keywords: Analyse the monetary forces operate through a multitude of channels viz., markets, non-markets, institutions and the State.		
Note: Course content involves 100% of theory.		

References:

Sl. No	Title of the book	Author	Publisher	Edition	Year
1	The Theory of Money and Financial Institutions	Shubik Martin	The MIT Press	Volume I and II	1999
2	Towards a New Paradigm in Monetary Economics	Stiglitz, Joseph E and Bruce E. Greenwald,	Cambridge University Press	-	2003
3	Monetary Economics	Hajala T.N	Kanark Publishers Pvt. Limited	-	1998
4	Monetary Economics; Institutions, Theory and Policy	Suraj B. Gupta	S. Chand & Company Limited	-	2004

I SEMESTER

Course Title	AGRICULTURAL ECONOMICS						
Course Type	Soft Core -Theory	Total Hours	64	Hours/Week	04	Credits	04
Course Code	Evaluation	Internal	C1+C2=15+15			30Marks	
		External	Duration	C3	03 Hr	70 Marks	100
CO No.	Course Objectives (COs) On completion of the course the student will be able						
CO-1	To expose the students to the concept, scope and significance of agricultural economics.						
CO-2	To impart adequate knowledge and analytical skills in the field of agricultural marketing issues.						
CO-3	To impart knowledge on issues related to lending to priority sector credit management and financial risk management.						
CO-4	To make them to understand the agricultural policies and its effect on sustainable agricultural development						
Mapping of CLOs with PSOs & CDLs							
CLOs No.	Course Learning Outcomes (CLOs) On completion of the course the student will learn to			PSOs Addressed	CDLs		
CLO-1	Understand the scope and significance of agricultural economics.			PSO-1	Understand		
CLO-2	Students are able to get adequate knowledge and analytical skills in the field of agricultural marketing issues.			PSO-3	Analyze		
CLO-3	Evaluate the issues related to lending to priority sector credit management and financial risk management.			PSO-3	Evaluate		
CLO-4	Able to analyze the agricultural policies and its effect on sustainable agricultural development.			PSO-5	Analyze		
CLO-5	Understand the theories of agricultural development.			PSO-2	Understand		

Course Content		Duration
Module: 1 Nature and Scope		16 Hrs
1.1	Agriculture and economic development	
1.2	Difference between agriculture and industry	
1.3	Farming systems	
1.4	Role of Land, Labour and Capital in Farming	
1.5	Farm Management concept and its significance in modern farming	
1.6	Agricultural development-poverty	
1.7	Environment-recent trends in agricultural development.	
Keywords: Understand the scope and significance of agricultural economics.		

Module: II Theories of agricultural development		16Hrs
2.1	Transformation of traditional agriculture	
2.2	Theories of Mellor- Boserup- Lewis- Fei-Ranis- Dale Jorgenson- Schultz.	
Keywords: Students are able to get adequate knowledge and analytical skills in the field of agricultural marketing issues.		
Module: III Production relationships in Agriculture		16Hrs
3.1	Laws of returns	
3.2	Production functions	
3.3	Factor-product	
3.4	Factor-factor and Product-product relationships	
3.5	Cobb-Douglas production function.	
Keywords: Evaluate the issues related to lending to priority sector credit management and financial risk management.		
Module: IV Factors determining the farm products and Environmental problems of agriculture		16Hrs
4.1	Supply behavior in agriculture	
4.2	Features and problems of Agricultural marketing.	
4.3	Environmental problems of Agricultural Development	
4.4	Excess use of water- Fertilizers and pesticides	
4.5	Cropping pattern- Causes, impact and importance of social forestry.	
Keywords: Able to analyze the agricultural policies and its effect on sustainable agricultural development.		
Note: Course contents involves 100% of theory		

Self-Study:

Principles of farm management -Farm budgeting techniques - Land tenure systems and land reforms - Determination of cost of cultivation of farm products -Various cost concepts adopted by CACP – Instability of farm prices – Agricultural Prices policy - Minimum Support Prices for farm products-climate change and sustainable agriculture.

Reference Books:

Sl. No	Title of the book	Author	Publisher	Edition	Year
1	Agricultural Economics	Subba Reddy, Raghuram, Neelakanta Sastry and Bhavani Devi	Oxford & IBH		
2	Fundamentals of Agricultural Economics	Sadhu and Singh	Himalaya Publishing House	2 nd	2005
3	Introduction to Agricultural Economic analysis	Bishop and Toussaint	John Wiley & Sons	First	2009

4	Agricultural Economics	Charles	Goodwin	First	2004
5	Elements of Farm Management Economics	Singh, I.J	East-West Press Pvt. Ltd	First	2004
6	Agricultural Marketing in India	Acharya and Agarwal	Oxford& IBH	---	2011

I SEMESTER

Course Title	ECONOMICS OF HEALTH						
Course Type	Soft Core-Theory	Total Hours	64	Hours/Week	04	Credits	04
Course Code	Evaluation	Internal	C1+C2=15+15			30Marks	
		External	Duration	C3	03 Hr.	70 Marks	100
CO No.	Course Objectives (COs) On completion of the course the student will be able to						
CO-1	Understand the scope and objectives of health economics.						
CO-2	Acquire sufficient knowledge about fundamental principles of health economics.						
CO-3	Create awareness about financing health care services and allocation of resources in the budget.						
CO-4	Understand and analyze the health inputs, outputs and health indicators.						
Mapping of CLOs with PSOs & CDLs							
CLOs No.	Course Learning Outcomes(CLOs) On completion of the course the student will learn to			PSOs Addressed	CDLs		
CLO-1	Relate and rephrase the scope and objectives of health economics.			PSO-1	Remember		
CLO-2	Students are able to Understand and apply microeconomic principles to analyze the major issues of the health care sector.			PSO-1	Understand		
CLO-3	Understand the public supply of health services with free and discriminatory pricing.			PSO-2	Understand		
CLO-4	Understand about health insurance and its importance.			PSO-5	Understand		
CLO-5	Analyze the health care for poor and latest health Programmes.			PSO-3	Analyze		

Course Content		Duration
Module: 1 Understanding Health Economics		16 Hrs.
1.1	Health Care Economics – its economic theory	
1.2	Health care needs and the health care sector	
1.3	Health care services in human resource development process	
1.4	Global health scenario	
1.5	Major diseases-estimates of ill health burden	

1.6	Estimation of economic value of health care services.	
Keywords: Understand and apply microeconomic principles to analyze the major issues of the health care sector		
Module: II Demand and Supply of health services and pricing system		16 Hrs.
2.1	The supply function of health care services	
2.2	The demand for health care- Derivation of the demand	
2.3	Public provision of health care	
2.4	Public supply of health services	
2.5	Health insurance- Individuals and family	
Keywords: Understand the public supply of health services with free and discriminatory pricing.		
Module: III Financing health care services		16 Hrs.
3.1	Government financing of health care	
3.2	Health care as public good and merit good	
3.3	Allocation of resources in the budget	
3.4	Comparing the ratio of health expenditure with comparable countries	
3.5	Financing through social insurance- latest health programmes	
Keywords: Understand about health insurance and its importance.		
Module: IV Health inputs, outputs and health indicators		16 Hrs.
4.1	Costs- cost concepts and cost analysis- Cost- output relationships	
4.2	Production function	
4.3	Outputs and health indicators- measures of mortality and morbidity	
4.4	Measures of function and dysfunction health profiles	
4.5	Global health indicators- quality adjusted life year (QALY)	
Keywords: Analyze the health care for poor and latest health programmes.		
Note: Course content involves 100% of theory.		

Self-Study:

National health policy for all by 2000 A.D.- Alternative health policy, Voluntary health services, private sector in health services, Reproductive health care system, user pays principle in pricing- Networking of the health care system National Nutritional Programmes.

Books for Reference:

Sl. No	Title of the book	Author	Publisher	Edition	Year
1	The economics of health and health care	Folland, Sherman, Aller C. Goodman and Mivan Stano	Prentice hall	2 nd	1997
2	Health Economics	Phelps- Charles .E,Addison	Wesley	2 nd	1997
3	National Health Policy	GOI, Ministry of Health and Family Welfare	GOI, Ministry of health and family welfare	latest	1983
4	Investing in People: The Health sector	World Bank	World Bank	Latest	1994

II SEMESTER

Course Title		INDIAN ECONOMY					
Course Type	Hard Core-Theory	Total Hours	64	Hours/Week	04	Credits	04
Course Code	Evaluation	Internal	C1+C2=15+15			30Marks	
		External	Duration	C3	03 Hr.	70 Marks	100
CO No.	Course Objectives (COs) On completion of the course the student will be able						
CO-1	To understand an overview of Indian economy.						
CO-2	To understand the importance of agricultural sector in Indian economy.						
CO-3	To introduce the role of industrialization growth and structural composition of Indian economy.						
CO-4	To create awareness about the growth of service sector in India.						
Mapping of CLOs with PSOs & CDLs							
CLOs No.	Course Learning Outcomes(CLOs) On completion of the course the student will learn to			PSOs Addressed	CDLs		
CLO-1	Understand the Basic Characteristics and Major issues of Indian economy.			PSO-1	Understand		
CLO-2	Analyse the Poverty and Unemployment Concepts and their trends in Indian economy.			PSO-2	Analyze		
CLO-3	Evaluate the role of agricultural and industrial sector in the Indian economy.			PSO-1	Evaluate		
CLO-4	Understand the performance of service sector in India.			PSO-2	Understand		
CLO-5	Understand the Balance of Payments Problems and Policies and FDI in India.			PSO-3	Understand		

Course Content		Duration
Module I: Overview of an Indian Economy		14Hrs
1.1	Natural resources and Human Resources Development	
1.2	Infrastructure	
1.3	Trends in the growth of National Income- Green Accounting	
1.4	India's Development Experience - Planning and Development Strategies -Planning Commission to NITI Aayog	
1.5	Parallel Economy and its Implications	
1.6	Poverty and unemployment	
Keywords: Understand the Basic Characteristics and Major issues of Indian economy.		
Module II: Agricultural Sector in India		14Hrs
2.1	Importance of Agriculture in Development - Cropping Pattern - Land Reforms - Farm Size and Efficiency	
2.2	Agricultural Labour Problems	

2.3	Agricultural Finance and Rural Indebtedness	
2.4	Agricultural Marketing - Agricultural Prices	
2.5	Agricultural Co-Operatives	
2.6	WTO and Agriculture.	
Keywords: Analyse the Poverty and Unemployment Concepts and their trends in Indian economy.		
Module III: Industrial Sector in India		12Hrs
3.1	Role of Industrialization - Growth and Structural Composition	
3.2	Small-Scale Industries	
3.3	Public Sector Industries - Role and Performance	
3.4	Privatization of Public Sector - Private Sector Industries and their Performance and Problems	
3.5	Industrial Labour	
3.6	Industrial Finance; Development Banks - Capital Market	
3.7	Industrial Monopoly – MRTP- New Industrial Policy.	
Keywords: Evaluate the role of agricultural and industrial sector in the Indian economy.		
Module IV: Growth of Service Sector in India		12Hrs
4.1	Concept and Composition of Service Sector	
4.2	Service Sector in India -Major Trends in the Growth of Service Sector:Critical Issues	
4.3	Millennium Development Goals	
4.4	Sustainable Development Goals	
4.5	Trade, Balance of Payments and Trade Policy :Trends in India’s Foreign Trade	
4.6	Balance of Payments Problems and Policies	
4.7	Foreign Direct Investment in India	
Keywords: Understand the performance of service sector in India.		
Note: Course content involves 100% of theory.		

Self-study Component:

1. Agricultural Policy - Agricultural Growth Under Five Year Plans- Strategies to Develop Agriculture-Capital Formation - Green Revolution - Price Policy - Food Security and Public Distribution System - Agricultural Finance- Marketing – Market Infrastructure.
2. Industrial development. Changing industrial policy regimes. Public v/s private sector – industrial finance and labour relations – Role of MNCs in industrial development – Regional disparities- Role and problems of micro, small and medium industrial enterprises – I T Industry.
3. Service sector growth – changing trends and composition of service sector-Parallel Economy - Centre State Financial Relations

Reference Books:

Sl. No	Title of the book	Author	Publisher	Edition	Year
1	Indian Economy	S. Ruder Dutt & K P M Sundaram	Chand & co. Ltd	6th	2010
2	Indian Economy	Mishra &Puri	Himalaya Publication	3 rd	2015

3	India in the world Economy	Deepak Lal	Oxford University press	2 nd	1999
4	Economic Policy Reforms	Krueger	Oxford University press	4 th	2002
5	India's Development Experience	Subramanian S	Oxford University press		2004
6	Indian Economy since Independence	Uma Kapila	Academic Foundation	5 th	2003
7	Indian Economy	,I.C.Dhingra, Sulthan	Chand & Son	4 th	2010
8	Indian Economics	,Dewett, Verma and Sharma	Sharma		2009
9	Indian Economy – Problems of Development and Planning,	A.N. Agarwal, Vishwa Prakashan,	New Delhi	2 nd	2009
10	“The state in a changing world”	Oxford University press	Oxford University press	----	1997
11	“Structural adjustment Programme The social issues involved”	Working paper	United nations Institute for policy research		1993

Reports:

1	Govt. of India, Ministry of Finance, Economic Surveys (of recent years).
2	The World Bank, World Development Report (of recent years).
3	The UNDP, Human Development Report (of recent years).
4	Govt. of India, Planning Commission, Drafts of 8 th , 9 th , 10 th and 11 th Five Year Plans.
5	Govt. of India, Planning Commission, National Human Development Report, (2002).
6	Indira -Gandhi Institute of Development Research (IGIDR), India Development Reports, Mumbai.
7	Economic Development, Todaro . M P.& S C Smith - Pearson Education [Singapore] pvt. Ltd. Delhi, 2003.
8	C M I E reports on Indian Economy.

II SEMESTER

Course Title	PUBLIC ECONOMICS: THEORY & POLICY						
Course Type	Hard Core-Theory	Total Hours	64	Hours/Week	04	Credits	04
Course Code	Evaluation	Internal	C1+C2=15+15		30Marks		100
		External	Duration	C3	03 Hr.	70 Marks	
CO No.	Course Objectives (COs)						
	On completion of the course the student will be able						
CO-1	To gives an idea about an overview of the public sector.						
CO-2	To understand the source of public revenue.						

CO-3	To understand the source of public expenditure.		
CO-4	To make awareness about budget preparation and fiscal policy for stabilization.		
Mapping of CLOs with PSOs & CDLs			
CLOs No.	Course Learning Outcomes(CLOs) On completion of the course the student will learn to	PSOs Addressed	CDLs
CLO-1	Understand various Approaches about Role of Government and Principle of Maximum Social Advantage.	PSO-1	Understand
CLO-2	Understand the concept of public revenue.	PSO-1	Understand
CLO-3	Apply and analyse the incidence & approaches of taxation.	PSO-2	Analyze
CLO-4	Evaluate the concept of public debt management & fiscal and monetary policies in India.	PSO-2	Evaluate
CLO-5	Analyse the concepts of budget & fiscal federalism in India.	PSO-2	Analyze

Course Content		Duration
Module: I An Overview of the Public Sector		14Hrs
1.1	Economics of Public Sector: The Field of Public Finance - Private and Public Interests: Individual Rights versus Social Responsibility - Adam Smith's Role of Government – Musgrave's Economic Role of Government.	
1.2	Principle of Maximum Social Advantage: Musgrave's Views on Principle of Maximum Social Advantage-Fundamental Theorems of Welfare Economics.	
1.3	Public Goods and the Need for Government: Public and Private Goods - Rivalry and Exclusion. Allocation of Public and Private Goods - Efficiency in Public Goods Provision - Market Failure and Externalities.	
Keywords: Understand various Approaches about Role of Government and Principle of Maximum Social Advantage.		
Module: II Public Revenue and Expenditure		14Hrs
2.1	Taxation :Theory of Taxation	
2.2	Structure and Principles of Taxation: Benefit and Ability-to-Pay Approaches	
2.3	Evaluation of Tax Reforms- Taxation Incidence and Alternative Concepts of Incidence.	
2.4	Public Expenditure: Theories of Public Expenditure- Structure and Growth of Public Expenditure	
2.5	Expenditure Evaluation- Expenditure Programmes for the Poor.	
Keywords: Analyse the incidence & approaches of taxation.		
Module: III Budget		12Hrs
3.1	Concept of PPB	
3.2	Zero-based Budgeting	
3.3	Types of Deficits -Deficit Budgeting	
3.4	Public Debt: Trends and Composition of Indian Public Debt- Debt Management	
Keywords: Evaluate the concept of public debt management & fiscal and monetary policies in India.		
Module: IV Fiscal Policy		12Hrs

4.1	Objectives -Fiscal Policy and Price Stability	
4.2	Full Employment	
4.3	Vertical and Horizontal Imbalance	
4.4	Finance Commissions	
4.5	Issues in Revenue Devolutions and Grants-in-aid.	
Keywords: Analyse the concepts of budget & fiscal federalism in India.		
Note: Course content involves 100% of theory.		

Self-study Component:

Origin of public finance-role of public finance
 Public finance in under developed countries
 Difference between public and private expenditure
 Negative externalities and inefficiency
 Principles of taxation
 Difference between public debt and private debt

References:

Sl. No	Title of the book	Author	Publisher	Edition	Year
1	Public Finance	Dr. B.P. Tyagi	Jai Prakash	2 nd	2000
2	Public Finance in Theory and Practices,	S.K. Singh	Sultan Chand & Co	latest	2010
3	Issues in Indian Public Finance	D.K. Srivastava,	New Century	3 rd	1999
4	Public Finance in Theory and Practice.	Musgrave R.A and P.A. Musgrave	McGraw-Hill	2 nd	1998
5	Public Finance Principles and Policy	Anderson John E	Houghton Mifflin Company,	5 th	2001

II SEMESTER-Interdisciplinary course

Course Title	BASIC ECONOMETRICS						
Course Type	Hard Core- Theory	Total Hours	64	Hours/Week	04	Credits	04
Course Code	Evaluation	Internal	C1+C2 = 15+15			30 Marks	100
		External	Duration	C3	03Hrs	70 Marks	
CO No.	Course Objectives (COs)						
	On completion of the course the student will be able						
CO-1	To provide knowledge about the scope of econometrics						
CO-2	To understand about the interrelationship between different sectors in an economy						
CO-3	To introduce the basics of linear regression model						
CO-4	To introduce the various econometrics problems.						
Mapping of CLOs with PSOs &CDLs							

CLOs No.	Course Learning Outcomes(CLOs) On completion of the course the student will learn to	PSOs Addressed	CDLs
CLO-1	Understands the econometrics application to economic theory.	PSO-1	Understand
CLO-2	Able to write the economic models and finds the Relationship between the variables.	PSO-3	Analyse
CLO-3	Understand and analyse the simple and multiple Regression models.	PSO-3	Analyse
CLO-4	Able to test hypothesis and interpret the results.	PSO-4	Apply
CLO-5	Able to evaluate the econometric models.	PSO-4	Evaluate

Course Content		Duration
Module: I Introduction		12 Hrs.
1.1.	Definitions, scope and Division of Econometrics	
1.2.	Methodology of econometrics and other interrelated discipline	
1.3.	Basic ideas - Problem of Estimation Point and Interval Estimation	
1.4.	Simple linear regression Model: OLS - Properties of the Least Squares estimates- Classical Normal Linear Regression Model (CNLRM)	
1.5.	Hypothesis Testing - statistical tests of significance of the estimates.	
1.6.	The test of goodness of fit (R^2).	
<i>Keywords: Understands the econometrics application to economic theory.</i>		
Module: II Multiple Regression Model		16 Hrs.
2.1.	Multiple regression model with two explanatory variables	
2.2.	Estimation and testing of hypothesis	
2.3.	R^2 and Adjusted R^2	
2.4.	Partial correlation coefficients.	
<i>Keywords: Able to analyse and write the economic models and finds the relationship between the variables</i>		
Module: III Dummy Variables and Dynamic Models		14 Hrs.
3.1.	Distributed Lag and Dynamic models.	
3.2.	Dummy variable model – meaning – Importance – dummy variable trap	
3.3.	ANOVA- ANCOVA models.	
3.4.	Error in Variables - Time as a variable - Lagged variables	
<i>Keywords: Able to apply test hypothesis and interpret the results</i>		
Module: IV Special Problems in Single Equations Linear Models		22 Hrs.
4.1.	Multicollinearity –Nature – Causes - Consequences – Detection – Remedial measures.	
4.2.	Heteroscedasticity- Nature – Causes - Consequences – Detection – Remedial measures.	

4.3.	Auto-correlation - Nature – Causes - Consequences – Detection – Remedial measures.
Keywords: Able to evaluate the econometric models.	
Note: Course content involves 50% of Problems and 50% of theory.	

Self-Study:

1. Regression
2. Correlation
3. Hypothesis testing

Reference:

Sl. No	Title of the book	Author	Publisher	Edition	Year
1	Theory of Econometrics	A. Koutsoyiannis	Palgrave Publication	2 nd	2001
2	Basic Econometrics	Damodar Gujarathi	Macgraw Hill Publication	5 th	2007
3	Introduction to Econometrics	Maddala G S	John Wiley & Sons	3 rd	2002
4	Introductory Econometrics with Applications	Ramanathan, Ramu	Thomson Learning Inc, Singapore	-	2002
5	A Text Book of Econometrics	Klein LR	Prentice Hall , Engle wood Cliffs	2 nd	1974
6	Elements of Econometrics	Kmenta, Jan	Macmillian, New York	2 nd	1976

II SEMESTER- Interdisciplinary Course

Course Title		ENVIRONMENTAL ECONOMICS					
Course Type	SoftCore-Theory	Total Hours	64	Hours/Week	04	Credits	04
Course Code	Evaluation	Internal	C1+C2=15+15			30Marks	
		External	Duration	C3	03 Hr	70 Marks	100
CO No.	Course Objectives (COs)						
	On completion of the course the student will be able						
CO-1	To introduce economics principles related to environmental economics.						
CO-2	To explore the concept of efficiency and the efficient allocation of natural resources.						
CO-3	To understand the environmental policy issues and alternative instruments of environmental policies.						
CO-4	To understand the concept of economic growth and environment.						
Mapping of CLOs with PSOs & CDLs							
CLOs No.	Course Learning Outcomes(CLOs)			PSOs Addressed		CDLs	
	On completion of the course the student will learn to						
CLO-1	Understand the importance of environmental economics.			PSO-1		Understand	

CLO-2	Understand the problems of waste management and energy problems in developing countries.	PSO-5	Understand
CLO-3	Apply and analyze the Pigovian analysis of externalities and market failure.	PSO-2	Analyze
CLO-4	Evaluate the economic growth and environmental degradation.	PSO-5	Evaluate
CLO-5	Understand the environmental Kuznets Hypothesis and sustainable development.	PSO-2	Understand

Course Content		Duration
Module: I Introduction		16Hrs
1.1.	Meaning and importance of environment	
1.2.	Environmental economics vs. traditional economics	
1.3.	The evaluation and growth of environmental economics.	
1.4.	Some typical environmental problems	
<i>Keywords: Understand the importance of environmental economics.</i>		
Module: II Introduction to Ecological Economics		16Hrs
2.1.	Introduction, Bio economics and Spatial Economics	
2.2.	Ecology and Economic Growth	
2.3.	Economics of Recycling, Solid Wastes, Industrial Wastes and Nuclear Wastes	
2.4.	The Problem of Wastes Management in Developing Countries	
2.5.	Energy Problems in Developing Countries	
<i>Keywords: Understand the problems of waste management and energy problems in developing countries</i>		
Module: III Welfare Criteria and Environmental Analysis		16Hrs
3.1.	Pareto Criterion	
3.2.	Pigovian Analysis of Externalities	
3.3.	Compensation Criterion	
3.4.	Property Rights and Coase Theorem	
3.5.	Environmental quality as a Public Good	
<i>Keywords: Apply and analyze the Pigovian analysis of externalities and market failure.</i>		
Module: IV Economics Growth and Environment		16 Hrs.
4.1.	The Cost of Economic growth and Environmental Degradation	
4.2.	The limit to Growth Model	
4.3.	Social limits to Growth Model	
4.4.	Environmental Kuznets Hypothesis	

4.5.	Sustainable Development	
Keywords: Evaluate the economic growth and environmental degradation.		
Note: Course content involves 100% of theory		

Self-study component:

Classification of Natural Resources
 Common Property Resources
 Joint Forest Management
 Forest Act
 Sustainable tourism
 Biodiversity crisis

References:

Sl. No	Title of the book	Author	Publisher	Edition	Year
1	Environmental Economics	Katak Singh and Anil Shishodia	SAGE	2nd	2010
2	Accounting and Valuation of Environment – A Preview for Developing Countries,		Moduleed Nation,		1997
3	Environmental Economics: An Indian Perspective,	Rabindra N, Bhattacharya	Oxford University Press	3rd	2012
4	Environmental Economics,		Oxford University Press,	---	2000
5	Environmental Economics in Theory and Practice,	Nick Hanley, Jason F. Shogren and Ben White	Macmillan		1991
6	Environmental and Natural Resource Economics	Tom Tietenberg,	Pearson	2nd	2005
7	Environmental Economics: Theory, Management and Policy.	Jhingan.M.L& Chandra K.Sharma		2nd	2012

II SEMESTER- Interdisciplinary Course

Course Title	ECONOMICS OF TOURISM						
Course Type	Open Elective - Theory	Total Hours	64	Hours/Week	04	Credits	04
Course Code	Evaluation	Internal	C1+C2 = 15+15			30 Marks	100
		External	Duration	C3	03Hrs	70 Marks	

CO No.	Course Objectives (COs) On completion of the course the student will be able		
CO-1	To Understanding the concept of tourism and development.		
CO-2	To analyze the principles of tourism with regard to planning, organizing, and the motivation to travel.		
CO-3	To evaluate the impact of tourism on demand and supply side of various tourist centers, its impact on foreign exchange.		
CO-4	To study the impact of tourism and its impact on the employment generation.		
Mapping of CLOs with PSOs &CDLs			
CLOs No.	Course Learning Outcomes(CLOs) On completion of the course the student will learn to	PSOs Addressed	CDLs
CLO-1	Understand the concept of tourism and Development.	PSO-1	Understand
CLO-2	Analyze the principles of tourism with regard to planning, organizing, and the motivation to travel.	PSO-3	Analyze
CLO-3	Evaluate the impact of tourism on demand and Supply side.	PSO-3	Evaluate
CLO-4	Apply and analyze the tourism and its impact on the Employment generation.	PSO-4	Apply
CLO-5	Understand the role of various organizations, benefits of Tourism and its impact on boosting the economy.	PSO-5	Understand

Course Content		Duration
Module: 1 Introduction		16Hrs
1.1.	Meaning and Measurement of Tourism-Travel through ages	
1.2.	Tourism and employment generation	
1.3.	Tourism and revenue generation	
Keywords: Understand the concept of tourism and Development.		
Module: II Principles of Tourism		16Hrs
2.1.	Planning and staff, Financial planning.	
2.2.	Organizing system-Organization structure- Authority relationship	
2.3.	Motivation to travel	
2.4.	Time factor, regional planning consideration	
Keywords: Analyze the principles of tourism with regard to planning, organizing, and the motivation to travel.		
Module: III Economics of Tourism		16Hrs
3.1.	Tourism: Demand and Supply.	
3.2.	Foreign exchange and balance of payment-(BOP) through international trade on Tourism.	
3.3	Inflation and rate of exchange.	

Keywords: Evaluate the impact of tourism on demand and Supply side.	
Module: IV Conducting empirical research or doing a project	16Hrs
4.1.	Role of various Organization.
4.2.	Job design.
4.3.	Socio-economic benefits and Average effects of tourism.
4.4.	Tourist arrival statistical analysis.
4.5.	Boosting Indian economy.
Keywords: Apply and analyze the tourism and its impact on the Employment generation.	
Note: Course content involves 100% of theory.	

Reference:

Sl. No	Title of the book	Author	Publisher	Edition	Year
1	Tourism Development: Principles & Practices	A.K. Bhatia	Sterling Publishers Pvt Ltd.	-	2002
2	Dynamics of Tourism	R.N. KAUL	Sterling Publishers Pvt Ltd.	-	1985
3	Successful Tourism Management	P.N. Seth	Sterling Publishers Pvt Ltd.	-	1985
4	Fair service, Economics of Tourism	Prague	Sterling Publishers Pvt Ltd.	-	1968
5	An Introduction to Travel and Tourism	Pramnathseth & Sushmaeth Bhat	Sterling Publishers Pvt Ltd.	-	2012

II SEMESTER – Self –study Course

Course Title	REVIEW OF LITRATURE						
Course Type	Soft Core- Theory	Total Hours	32	Hours/Week	02	Credits	02
Course Code	Evaluation	Internal	C1+C2 = 10+10			20 Marks	50
		External	Duration	C3	03Hrs	30 Marks	
CO No.	Course Objectives (COs)						
	On completion of the course the student will be able						
CO-1	To provide fundamental knowledge of research.						
CO-2	To give the ability to identifying the problems in research area.						
CO-3	To understand the different types of literature.						
CO-4	To understand and apply bibliography.						
Mapping of CLOs with PSOs &CDLs							
CLOs No.	Course LearningOutcomes(CLOs)			PSOs Addressed		CDLs	
	On completion of the course the student will learn						
CLO-1	Understand significance of research area.			PSO-1		Understand	

CLO-2	Identify the theoretical base for research problem.	PSO-3	Apply
CLO-3	Able to write bibliography	PSO-3	Apply
CLO-4	Evaluate the background for research problem.	PSO-4	Evaluate
CLO-5	Able to write the research proposal.	PSO-4	Apply

Course Content

Module-1	Introduction and Sources of Literature	16 Hrs
1.1	Concept of Literature Review, Purpose	
1.2	Types of sources and Basics of doing the Quality Literature Review.	
1.3	Online Literature Survey/ Review,	
1.4	Organizing and Compiling, Analyzing and identifying research gaps	
Keywords: Identify and apply the theoretical base for research problem.		
Module-2	Online Literature Data Bases	16Hrs
2.1	Subscription based, Free based	
2.2	National and International Database.	
2.3	Write a Review paper	
2.4	Identify the research problem	
Keywords: Able to write the research proposal.		
Note: Course content involves 100% of library work.		

Reference:

Sl. No	Title of the book	Authors	Publisher	Edition	Year of publication
1	Social Research Methods	Bryman Alan	Oxford University Press	4 th	2012
2	Research Methodology	Kothari C.R.	New Age International Publication	-	2004
3	Methodology of Research in Social Sciences	Krishnawamy O.R. and Ranganathan, M	Himalaya Publishing House	-	2010
4	Research Methodology in Economics	Kurian C.T.	Institute of Development Studies, Madras	-	1992

II SEMESTER –Self-study Course

Course Title	DATA COLLECTION TECHNIQUES						
Course Type	Soft Core- Theory	Total Hours	32	Hours/Week	02	Credits	02
Course Code	Evaluation	Internal	C1+C2 = 10+10			20 Marks	
		External	Duration	C3	03Hrs	30 Marks	
							50

CO No.	Course Objectives (COs) On completion of the course the student will be able		
CO-1	To provide fundamental knowledge of research.		
CO-2	To understand the type of data.		
CO-3	To understand the difference between universe and samples.		
CO-4	To understand and apply different types of data collection.		
Mapping of CLOs with PSOs &CDLs			
CLOs No.	Course Learning Outcomes(CLOs) On completion of the course the student will learn to	PSOs Addressed	CDLs
CLO-1	Understand the different types of data and techniques of data collection.	PSO-1	Understand
CLO-2	Identify the research problem and sample.	PSO-3	Apply
CLO-3	Prepare questionnaire for the research problem	PSO-3	Analyse
CLO-4	Able to enter and interpret the data.	PSO-4	Evaluate
CLO-5	Able to write the research project.	PSO-4	Apply
	Course Content		Duration
Module: I Introduction:			16 Hrs
1.1	Data collection methods; Types of data and their research value		
1.2	Secondary data collection		
1.3	Collecting Web data		
Keywords: Identify the research problem and sample.			
Module: II Primary Data Collection			16 Hrs
2.1	Methods of Primary data collection		
2.2	Guidelines for constructing Questionnaire /Schedule		
2.3	Selection of appropriate methods for data collection		
Keywords: Prepare questionnaire for the research problem			
Note: Course content involves 20% theory and 80% of field study.			

Reference:

Sl. No	Title of the book	Author	Publisher	Edition	Year
1	Social Research Methods	Bryman Alan	Oxford University Press	4 th	2012

2	Research Methodology	Kothari C.R.	New Age International Publication	-	2004
3	Methodology of Research in Social Sciences	Krishnaswamy O.R. and Ranghanathan, M	Himalaya Publishing House	-	2010
4	Research Methodology in Economics	Kurian C.T.	Institute of Development Studies, Madras	-	1992
5	Research Methods in Social Science	Majumdar P.K.	Viva Books Private Limited	-	1976
6	How to Write and Publish a Scientific Paper	Robert, A. Day	Cambridge University Press	4 th	1994

II SEMESTER-Ability Enhancement course

Course Title		FINANCIAL ECONOMICS					
Course Type	Soft Core- Theory	Total Hours	64	Hours/Week	04	Credits	04
Course Code	Evaluation	Internal	C1+C2 = 15+15			30 Marks	
		External	Duration	C3	03Hrs	70 Marks	
CO No.	Course Objectives (COs) On completion of the course the student will be able						
CO-1	To understand and identify the intermediaries in the financial sector						
CO-2	To be aware of the instruments in the financial sector.						
CO-3	To identify the functions of Intermediaries in the Development of Capital market						
CO-4	To understand the difference between primary and secondary market and assess the working of SEBI						
Mapping of CLOs with PSOs &CDLs							
CLOs No.	Course Learning Outcomes(CLOs)			PSOs Addressed		CDLs	
	On completion of the course the student will learn to						
CLO-1	Understand the structure and functions of financial market.			PSO-1		Understand	
CLO-2	Analyse the performance of primary and secondary market.			PSO-2		Analyse	
CLO-3	Evaluate the performance of monetary policy			PSO-3		Evaluate	
CLO-4	Understand and analyse the functions of exchange			PSO-5		Analyse	
CLO-5	Analyse the changing role of financial institutions in the process of growth and development.			PSO-4		Analyse	

Course Content	Duration
Module: I Financial Economics	16Hrs

1.1	Structure of Financial System	
1.2	Functions of Financial Sectors	
1.3	Equilibrium of Financial Markets	
1.4	Financial System and economic development	
1.5	Criteria to Evaluate Financial sectors	
Keywords: Understand the structure and functions of financial market.		
Module: II Introduction to Security Analysis		16Hrs
2.1	Meaning of Risk- Types of risk	
2.2	Concept and types of Return of Yield Risk	
2.3	Return Trade Off	
2.4	Valuation of Securities	
2.5	General Principles of Valuation	
Keywords: Analyse the performance of primary and secondary market.		
Module: III Regulatory and Promotional Institutions		16Hrs
3.1	RBI, Functions, Role	
3.2	Objectives of Monetary policy and Instruments	
3.3	Commentary on Current monetary Policy	
3.4	SEBI- functions- Role in Security Market	
Keywords: Evaluate the performance of monetary policy		
Module: IV Money Market and Capital Market		16Hrs
4.1	Instruments	
4.2	Repo and Reverse Repo rate	
4.3	Organization of Money market and Participants	
4.4	Capital Market Instruments : Primary Issue – Process - Secondary Market- Stock exchange	
Keywords: Analyse the changing role of financial institutions in the process of growth and development.		
Note: Course content involves 100% of theory.		

Self-Study components:

1. Introduction to Indian Financial system
2. Indian money market and its instruments
3. Indian capital market
4. RBI functions- commercial banks.

References

Sl. No	Title of the book	Author	Publisher	Edition	Year
1	Financial Institutions and Markets	L.M. Bhole	Tata McGraw – Hill publishing Company	-	1999
2	Indian Financial System	Pathak, V. Bahrathi	Pearson India Ltd	-	2008
3	Indian Financial System	Khan. M.Y.	Tata McGraw Hill	12 th	2008
4	Development Banking and Financial Intermediaries	Desai Vasant	Himalaya Pub., House		
5	The Indian Financial System: Markets, Institutions and Services	Pathak, Bharati V.	Pearson Education India		

II SEMESTER-Ability Enhancement course

Course Title	GENDER ECONOMICS						
Course Type	Soft Core- Theory	Total Hours	64	Hours/Week	04	Credits	04
Course Code	Evaluation	Internal	C1+C2 = 15+15			30 Marks	
		External	Duration	C3	03Hrs	70 Marks	
CO No.	Course Objectives (COs)						
	On completion of the course the student will be able						
CO-1	To understand basic concepts of gender Economics and Feminism.						
CO-2	To understand the role of women in the economy.						
CO-3	To Evaluate the concept of certain protections for women security.						
CO-4	To give in-depth knowledge about different gender inequality measures.						
Mapping of CLOs with PSOs & CDLs							
CLOs No.	Course Learning Outcomes(CLOs)				PSOs Addressed	CDLs	
	On completion of the course the student will learn to						
CLO-1	Understand the different concept of feminism.				PSO-1	Understand	
CLO-2	Understand and analyse the various theories with respect to gender development.				PSO-1	Analyse	
CLO-3	Analyse the welfare economic policies for gender growth and development.				PSO-2	Analyse	
CLO-4	Understand and analyse the concept of discrimination and its measurement with respect to gender.				PSO-5	Analyse	
CLO-5	Evaluate the social security measures with respect to gender.				PSO-2	Evaluate	

Course Content		Duration
Module: I Introduction		16Hrs
1.1	Introduction - Basic Concepts – Difference between Gender and Sex	
1.2	Patriarchy - Functioning of patriarchy -Feminism	
1.3	Gender Budget – WID – WAD – GAD, Eco feminism	
1.4	Gender Audit – Gender Mainstreaming	
1.5	Gender Development Index and Gender Inequality Index	
1.6	Sen’s Contribution to Women’s issues	
Keywords: Understand the different concept of feminism.		
Module: II Theories of Women Exploitation		16Hrs
2.1	Theories of Women Exploitation - Marx-Engel’s Theory of exploitation	
2.2	Gender based evaluation of theories of Development	
2.3	Women claims in Household – Invisibility of women’s work	
2.4	Valuation of Women’s Contribution to National Income.	
Module: III Women and Development		16Hrs
3.1	Women Labour and Employment	
3.2	Gender structure in Developed and Developing Economies	
3.3	Gender Segmentation of employment	
3.4	Factors influencing supply of and Demand for female labour – Wage discrimination	
3.5	Garry Becker’s Theory – Factors influencing wage gap	
Module: IV Social Security and Social Protection		16Hrs
4.1	Social Security and Social Protection - Need for Social Security	
4.2	Gender analysis of existing Social Security programs- Institution in Provision of Social Security for Women	
4.3	Economic development & gender equality	
4.4	Measures to redress gaps in command over resources & political voice	

Self-Study:

Theories of Economic Development

Women in Formal and Informal Employment

References:

Sl. No	Title of the book	Author	Publisher	Edition	Year

1	Women Work and Discrimination	Arputha Murthy Savithri	Ashish Publishing House	-	1980
2	Women's Role in Economic Development	St Bosarup Ester, George Allen and Unwin	Business and Economics	2	2013
3	Theories of Women Studies	Bowles Gloria and Dueli Klein Kenate	New York	-	1989
4	Empowering Women for Sustainable Development	Devasia Leelamma	Ashish Publishing House	-	1994
5	Women's Occupational Mobility	Dex Shirley	Macmillan Press	-	1987
6	The issues at Stake: Theory and practice in the Women's Movement in India	Gandhi, Nandita and Nandita Shah	New Delhi	-	1992.
7	Women at Work in Developing Economy	Gupta Nirmal K Sudan Falendra	K Anmol Publications,	-	1990
8	Is „Gender“ Easy to Study? Some Reflections	Maithreyi Krishnaraj	Economic and Political Weekly	-	October 21, 2001
9	Women's Studies in India – A Reader	Mary E. John	Penguim Books	-	2008
10	Women in Contemporary India: Realities and Perspectives,	Sanjoy Roy	Akansha Publishing House	-	2010
11	Tracking Gender Equity Under Economic Reforms Continuity and Change in South Asia	Swapna Mukhopadhyay and Ratna M.	Kali for Women	-	2003
12	The Macro Economic Policies and The Millennium Development Goals	Vibhuti Patel	Gyan Publishing House	-	2006
13	Gender Budget – A case Study of India, Department of Economics	Vibhuti Patel	Centre for Advanced Study in Economics Working Paper UDE (CAS) 7(7)	-	2003
14	Emergence of Women's Question and Role of Women's Studies	VinaMazumdar	Occasional Paper Centre for Women's Development Studies New Delhi	--	1985

II SEMESTER-Ability Enhancement course

Course Title	ENERGY ECONOMICS						
Course Type	Soft Core- Theory	Total Hours	64	Hours/Week	04	Credits	04
Course Code	Evaluation	Internal	C1+C2 = 15+15			30 Marks	100
		External	Duration	C3	03Hrs	70 Marks	
CO No.	Course Objectives (COs) On completion of the course the student will be able						
CO-1	To Understand about the definition, types and Forms of energy.						
CO-2	To identify the classified material based and sub-sector energy source.						
CO-3	To make the students to understand the significance and role of Energy in economic Development.						
CO-4	To make students aware of the efficient use of energy.						
Mapping of CLOs with PSOs &CDLs							
CLOs No.	Course Learning Outcomes(CLOs) On completion of the course the student will learn to				PSOs Addressed	CDLs	
CLO-1	Understand about the definition, types and forms of energy.				PSO-1	Understand	
CLO-2	Understand the importance of renewable and non-renewable energy resources.				PSO-1	Analyse	
CLO-3	Analyse the energy demand factor.				PSO-2	Analyse	
CLO-4	Analyse and evaluate the energy supply factor.				PSO-5	Evaluate	
CLO-5	Gain knowledge on energy regulation and policies.				PSO-1	Understand	

Course Content		Duration
Module: I Energy Concepts		16Hrs
1.1.	Concepts - Definitions - Sources and Categories of Energy	
1.2.	Energy Balance Tables	
1.3.	Energy Data Sources- Energy System	
1.4.	Energy - Economy Linkages	
1.5.	Green Energy	
Keywords: Understand about the definition, types and forms of energy.		
Module II Energy Sub-Sectors		16hrs
2.1.	Forms of Energy - Electricity, Coal, Oil and Renewable Sources.	

2.2.	Availability and Features
2.3.	Management of Energy Resources
2.4.	Energy and Environmental Sustainability

Keywords: Analysis the energy demand factor.

Module III Energy Supply and Demand Analysis	16Hrs
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3.1.	<i>Energy Supply Analysis:</i> Availability and Supply of Different Sources of Energy - Supply Constraints - Role of Renewable Sources of Energy - Institutional Framework for Energy Supply in India
3.2.	Supply Scenario and Investment Requirements - Alternative Energy Sources - Energy Imports - Trends and Issues - Policies of the Government.
3.3.	<i>Energy Demand Analysis:</i> Determinants of Energy Demand – Estimating Energy Demand - Methods of Estimation - Price and Income Elasticity
3.4.	Demand Estimation under Administered Price Regimes - Demand – Supply Gap - Energy Shortage and Crisis -
3.5.	Need for Energy Demand Management - Renewable Energy Options.

Keywords: Analyse and evaluate the energy supply factor.

Module IV Energy Pricing	16Hrs
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4.1.	Need - Methods and Principles of Energy Pricing
4.2.	Economic Efficiency and Equity Considerations
4.3.	Pricing Under Supply Constrained Framework
4.4.	Energy Markets
4.5.	Regulation - Issues and Challenges.

Keywords: Gain knowledge on energy regulation and policies.

Note: Course content involves 100% of theory.

References:

Sl. No	Title of the book	Author	Publisher	Edition	Year
1	Handbook of Natural Resource and Energy Economics	Kneese, A. V. and Sweeny, J L	North Holland	-	1951
2	Energy Policy Analysis and Modeling	Munasinghe M & Meier P	Cambridge University Press,U K.	-	1993
3	The Economics of Energy	Paul Stevens	Edward Elgar	Vol -I and Vol -II.	2006
4	Public Sector Pricing: Theory and Applications	Sankar U	Indian Economic Association Trust for Research and Development	-	2003

III SEMESTER

Course Title	RESEARCH METHODOLOGY AND DATA ANALYSIS						
Course Type	Hard Core- Theory	Total Hours	64	Hours/Week	04	Credits	04
Course Code	Evaluation	Internal	C1+C2 = 15+15			30 Marks	100
		External	Duration	C3	03Hrs	70 Marks	
CO No.	Course Objectives (COs) On completion of the course the student will be able						
CO-1	To understand the concept and Types of Research.						
CO-2	To apply the various steps in research like identifying problems in research area, finding gap and so on.						
CO-3	To apply and analyse the different types of data.						
CO-4	To equip the students with basic knowledge of statistical software usage in research and produce good research projects and articles.						
Mapping of CLOs with PSOs & CDLs							
CLOs No.	Course Learning Outcomes(CLOs) On completion of the course the student will learn to				PSOs Addressed	CDLs	
CLO-1	Understand and analyse different types of research.				PSO-1	Understand	
CLO-2	Identify the gap in research area to formulate the objectives and hypothesis related to their research area.				PSO-2	Analyse	
CLO-3	Collect different sets of data as needed.				PSO-3	Analyse	
CLO-4	Analyse and interpret both the qualitative and quantitative data.				PSO-4	Apply	
CLO-5	Able to evaluate and write a research project and article in their interested area.				PSO-4	Evaluate	

Course Content		Duration
Module: I - Foundations of Research		22 Hrs
1.1.	What is Research? - Meaning and Characteristics- Social Science Research- Meaning and Scope- Objectives - Reference Documentation in the library and Need for Research in Economics.	
1.2.	Types and Methods of Research: Classification of Research - Pure and Applied Research-Exploratory -Descriptive – Diagnostic -Evaluation-Action- Experimental Research -Statistical Methods -HistoricalResearch-Surveys- Case Study-Field Study.	
1.3.	Planning and Objectives of Research: Identification of Research problem	
	Review of Literature –Objectives-Hypothesis-Concepts-Research Plan-Sampling Design -Steps in Research.	
1.4	Sampling Techniques and Data Processes Meaning-Types -Probability sampling techniques -Non Probability sampling techniques -Choice of Sampling Technique-Sample size determination.	

1.5	Introduction -Editing- Classification and Coding- Transcription	
Keywords: Identify the gap in research area to formulate the objectives and hypothesis related to their research area.		
Module: II- Hypothesis Testing		16Hrs
2.1.	Univariate and multivariate data analysis - Estimation of mean and variance- Test of single sample mean – two independent means test- Testing for means of paired data- Test of single sample variance – two sample variance test.	
2.2.	Analysis of Variance: Introduction – assumptions for Analysis of variance- Testing for the equality of k proportion means - Between treatments estimate of population variance - Within treatments estimate of population variance - Comparing the variance of estimates – the F test – multiple comparison procedures.	
Keywords: Collect different sets of data as needed.		
Module: III- Non-parametric Tests		14Hrs
3.1.	Introduction- Meaning- one sample mean test – run test -Wilcoxon signed rank test - Two samples test - Independent sample test - Mann- Whitney test - Paired samples test	
3.2.	Wilcoxon signed rank test- Chi Square test- Spearman rank correlation test – three or more than three samples test- Kruskal –Wallis test – Friedman test	
Keywords: Analyse and interpret both the qualitative and quantitative data.		
Module: IV- Factor Analysis		12Hrs
4.1.	What is factor analysis? - Objectives of factor analysis -Designing a factor analysis- Assumptions in factor analysis- deriving factors and assessing overall fit- Interpreting the factors- validation of factor analysis.	
4.2.	Report Writing: Types of Reports-Research Report Format-Documentation: Footnotes and Bibliography-Writing the Report-Presentation.	
Keywords: Able to evaluate and write a research project and article in their interested area.		
Note: Course content involves 20% of theory and 80% of problems		

Self-study:

Types of data – Measures of central tendency and Dispersion

References

Sl. No	Title of the book	Author	Publisher	Edition	Year
1	Social Research Methods	Bryman Alan	Oxford University Press	4 th	2012
2	Research Methodology	Kothari C.R.	New Age International Publication	-	2004
3	Methodology of Research in Social Sciences	Krishnawamy O.R. and Ranghanathan, M	Himalaya Publishing House	-	2010
4	Research Methodology in Economics	Kurian C.T.	Institute of Development Studies, Madras	-	1992

5	Research Methods in Social Science	Majumdar P.K.	Viva Books Private Limited	-	1976
6	How to Write and Publish a Scientific Paper	Robert, A. Day	Cambridge University Press	4 th	1994

Completed up to this point

III SEMESTER

Course Title	INTERNATIONAL TRADE: THEORY AND POLICY						
Course Type	Hard Core- Theory	Total Hours	64	Hours/Week	04	Credits	04
Course Code	Evaluation	Internal	C1+C2=15+15			30Marks	
		External	Duration	C3	03 Hr.	70 Marks	100
CO No.	Course Objectives (COs) On completion of the course the student will be able						
CO-1	To get knowledge about importance of international trade.						
CO-2	To analyse the fundamental theories of international trade.						
CO-3	To be aware of international trade policies and practices.						
CO-4	To understand the importance of economic integration and WTO and trade policies.						
Mapping of CLOs with PSOs & CDLs							
CLOs No.	Course Learning Outcomes(CLOs) On completion of the course the student will learn to				PSOs Addressed		
CLO-1	Understand the Nature, Scope and Importance of International Economics.				PSO-1		Understand
CLO-2	Analyse the theories international trade.				PSO-5		Analyze
CLO-3	Evaluate the gains from international trade & the measurements.				PSO-5		Evaluate
CLO-4	Understand the trade creating customs union & history of economic integration.				PSO-2		Understand
CLO-5	Analyze the objectives and functions of WTO.				PSO-5		Analyze

Course Content		Duration
Module: 1 Basic Concepts of International Trade		14Hrs
1.1.	International Economics - The basis of International Trade- Internal and International Trade - The Importance of International Economics	

1.2.	The Standard Theory of International Trade: The Production Frontier with Increasing Costs – Community Indifference Curves - Equilibrium in Isolation - The Basis for the Gains from Trade with Increasing Costs - Trade based on Difference in Tastes.	
1.3.	Demand and Supply, Offer Curves and the Terms of Trade: Partial Equilibrium Analysis - Offer Curves - General Equilibrium Analysis - Relationship between General and Partial Equilibrium Analysis.	
Keywords: Understand the Nature, Scope and Importance of International Economics.		
Module: II Fundamental Theories of International Trade		14Hrs
2.1.	Trade based on Comparative Advantage: David Ricardo	
2.2	Mill's Reciprocal Demand - Comparative Advantage and Opportunity Cost	
2.3	Factor Endowments and The Heckscher-Ohlin Theory: Assumptions of the Theory - Factor Intensity, Factor Abundance - Factor Endowments and Heckscher-Ohlin Theorem	
2.4	Factor Price Equilibrium Theorem - Empirical Test of Heckscher-Ohlin Model.	
2.5	Leontief Paradox	
2.6	Recent Developments in the Theories of International Trade: The Availability Doctrine - The Stolper-Samuelson Theorem - The Vent for Surplus Approach	
Keywords: Analyse the theories international trade.		
Module: III International Trade Policies and Practices		12Hrs
3.1.	Trade Restrictions: Tariffs - Partial Equilibrium Analysis of a Tariff - The Theory of Tariff Structure - General Equilibrium Analysis of a Tariff – The Optimum Tariff.	
3.2.	Non-Tariff Trade Barriers and the New Protectionism: Import Quotas - Voluntary Export Restraints - Technical, Administrative and other Regulations	
3.3	International Cartels - Dumping - The Political Economy of Protectionism and Strategic Trade and Industrial Policy - Outstanding Trade Problems.	
Keywords: Evaluate the gains from international trade & the measurements.		
Module: IV Economic Integration and Trade Policies		12 Hrs
4.1.	Customs Unions and Free Trade: Introduction - Trade Creating Customs Union - Trade Diverting Customs Union - Static and Dynamic Benefits from Customs Union	
4.2.	History of Economic Integration - The European Economic Community– The European Free Trade Association	
4.3.	NAFTA - Attempts of Developing Countries towards Economic Integration –SAARC, BRICS.	
4.4.	General Agreements on Tariffs and Trade (GATT) - World Trade Organization(WTO) - Objectives and Functions of WTO	
4.5.	Trade Related Intellectual Properties (TRIPs) - Trade Related Investment Measures (TRIMs)- General Agreements on Trade in Services (GATS)	
Keywords: Analyze the objectives and functions of WTO.		

Note: Course content involves 100% of theory.

Self-study topic:

1. Mercantilists Views on Trade - Trade based on Absolute Advantage: Adam Smith
1. Adam Smith, Ricardo's comparative cost and opportunity cost, Heberler empirical evidence.
2. Free trade v/s protection for developing countries general equilibrium effect of a tariff in a large and small countries strategic trade policy.
3. Origin and development, structure of WTO. GATT, WTO and Trade agreements.
4. Trade and Environment - Trade Liberalization - Recent Developments in PRIDS and TRIMS.

References:

Sl. No	Title of the book	Author	Publisher	Edition	Year
1	International economics	Dominick Salvatore	John Wiley and sons	4 th	2014
2	International economics	Robert J Carbaugh, Thomson	south western	2 nd	2009
3	International trade	MIA Mikic	Macmillan press LTD.	--	2012

III SEMESTER

Course Title		THEORY OF ECONOMETRICS						
Course Type	Hard Core- Theory	Total Hours	64	Hours/Week	04	Credits	04	
Course Code	Evaluation	Internal	C1+C2 = 15+15			30 Marks		
		External	Duration	C3	03Hrs	70 Marks		
CO No.	Course Objectives (COs)							
On completion of the course the student will be able								
CO-1	To provide knowledge about the scope of econometrics							
CO-2	To understand about the interrelationship between different sectors in an economy							
CO-3	To introduce the basics of linear regression model							
CO-4	To introduce the various econometrics problems.							
Mapping of CLOs with PSOs & CDLs								
CLOs No.	Course Learning Outcomes(CLOs)			PSOs Addressed		CDLs		
On completion of the course the student will learn to								
CLO-1	Understands the econometrics application to economic theory.			PSO-1		Understand		
CLO-2	Able to write the economic models and finds the relationship between the variables.			PSO-3		Analyse		
CLO-3	Understand and analyse the simple and multiple Regression models.			PSO-3		Analyse		
CLO-4	Able to test hypothesis and interpret the results.			PSO-4		Apply		

CLO-5	Able to evaluate the econometric models.	PSO-4	Evaluate
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Course Content

Duration

Module: I Introduction		12 Hrs.
1.1.	Definitions, scope and Division of Econometrics	
1.2.	Methodology of econometrics and other interrelated discipline	
1.3.	Basic ideas - Problem of Estimation Point and Interval Estimation	
1.4.	Simple linear regression Model: OLS - Properties of the Least Square Estimates- Classical Normal Linear Regression Model (CNLRM)	
1.5.	Hypothesis Testing - statistical tests of significance of the estimates.	
1.6.	The test of goodness of fit (R^2).	
<i>Keywords: Understands the econometrics application to economic theory.</i>		
Module: II Multiple Regression Model		16 Hrs.
2.1.	Multiple regression model with two explanatory variables	
2.2.	Estimation and testing of hypothesis	
2.3.	R^2 and Adjusted R^2	
2.4.	Partial correlation coefficients.	
<i>Keywords: Able to write the economic models and finds the relationship between the variables.</i>		
Module: III Dummy Variables and Dynamic Models		14 Hrs.
3.1.	Dummy variable model – meaning – Importance – dummy variable trap	
3.2.	Distributed Lag and Dynamic models.	
3.3.	Error in Variables - Time as a variable - Lagged variables	
3.4.	ANOVA- ANCOVA models.	
<i>Keywords: Able to test hypothesis and interpret the results</i>		
Module: IV Special Problems in Single Equations Linear Models		22 Hrs.
4.1.	Multicollinearity –Nature – Causes - Consequences – Detection – Remedial measures.	
4.2.	Heteroscedasticity- Nature – Causes - Consequences – Detection – Remedial measures.	
4.3.	Auto-correlation - Nature – Causes - Consequences – Detection – Remedial measures.	
4.4	Simultaneous Equation Models :Nature - Simultaneous equation bias - Identification: Under – Exact – Over Identification	
4.5	Rules of identification - Order condition and Rank condition of identification	
4.6	Estimation of Simultaneous equations models – ILS – 2SLS – LIMLE - FIMLE	

Keywords: Able to evaluate the econometric models.

Note: Course content involves 50% of theory and 50% of problems

Self-Study:

1. Regression
2. Correlation
3. Hypothesis testing

Reference:

Sl. No	Title of the book	Author	Publisher	Edition	Year
1	Theory of Econometrics	A. Koutsoyiannis	Palgrave Publication	2 nd	2001
2	Basic Econometrics	Damodar Gujarathi	Macgraw Hill Publication	5 th	2007
3	Introduction to Econometrics	Maddala G S	John Wiley & Sons	3 rd	2002
4	Introductory Econometrics with Applications	Ramanathan, Ramu	Thomson Learning Inc, Singapore	-	2002
5	A Text Book of Econometrics	Klein LR	Prentice Hall , Engle wood Cliffs	2 nd	1974
6	Elements of Econometrics	Kmenta, Jan	Macmillian, New York	2 nd	1976

III SEMESTER

Course Title	NATURAL RESOURCES AND ENVIRONMENTAL ECONOMICS						
Course Type	SoftCore-Theory	Total Hours	64	Hours/Week	04	Credits	04
Course Code	Evaluation	Internal	C1+C2=15+15			30Marks	
		External	Duration	C3	03 Hr.	70 Marks	100
CO No.	Course Objectives (COs)						
	On completion of the course the student will be able to						
CO-1	To introduce economics principles related to natural resource and environmental economics.						
CO-2	To explore the concept of efficiency and the efficient allocation of natural resources.						
CO-3	To understand the environmental policy issues and alternative instruments of environmental policies.						
CO-4	To understand the concept of economic growth and environment.						
Mapping of CLOs with PSOs & CDLs							
CLOs No.	Course Learning Outcomes(CLOs)			PSOs Addressed		CDLs	
	On completion of the course the student will learn to						

CLO-1	Understand the natural resource classification and natural resource policy in India.	PSO-1	Understand
CLO-2	Understand the problems of waste management and energy problems in developing countries.	PSO-5	Understand
CLO-3	Apply and analyse the Pigovian analysis of externalities and market failure.	PSO-2	Analyze
CLO-4	Evaluate the economic growth and environmental degradation.	PSO-5	Evaluate
CLO-5	Understand the environmental Kuznets Hypothesis and sustainable development.	PSO-2	Understand

Course Content		Duration
Module: I Natural Resources		16Hrs
1.1.	Natural Resource - Types and Classification – Resource Taxonomy and scarcity	
1.2.	Conservation of Non-renewable resources	
1.3.	Conservation of Renewable resources	
1.4.	Natural Resource Policy in India	
1.5.	Meaning and need of Green Accounting	
<i>Keywords: Understand the natural resource classification and natural resource policy in India.</i>		
Module: II Introduction to Ecological Economics		16Hrs
2.1.	Introduction, Bio economics and Spatial Economics	
2.2.	Ecology and Economic Growth	
2.3.	Economics of Recycling, Solid Wastes, Industrial Wastes and Nuclear Wastes	
2.4.	The Problem of Wastes Management in Developing Countries	
2.5.	Energy Problems in Developing Countries	
<i>Keywords: Apply and analyse the Pigovian analysis of externalities and market failure.</i>		
Module: III Welfare Criteria and Environmental Analysis		16Hrs
3.1.	Pareto Criterion	
3.2.	Pigovian Analysis of Externalities	
3.3.	Compensation Criterion	
3.4.	Property Rights and Coase Theorem	
3.5.	Environmental quality as a Public Good	
<i>Keywords: Evaluate the economic growth and environmental degradation.</i>		
Module: IV Economics Growth and Environment		16 Hrs
4.1.	The Cost of Economic growth and Environmental Degradation	
4.2.	The limit to Growth Model	

4.3.	Social limits to Growth Model
4.4.	Environmental Kuznets Hypothesis
4.5.	Sustainable Development
Keywords: Understand the environmental Kuznets Hypothesis and sustainable development.	
Note: Course contents involves 100% of theory	

Self-study component:

Classification of Natural Resources
 Common Property Resources
 Joint Forest Management
 Forest Act
 Sustainable tourism
 Biodiversity crisis

References:

Sl. No	Title of the book	Author	Publisher	Edition	Year
1	Accounting and Valuation of Environment – A Preview for Developing Countries,		Moduleed Nation,		1997
2	Environmental Economics: An Indian Perspective,	Rabindra N, Bhattacharya	Oxford University Press	3 rd	2012
3	Environmental Economics,		Oxford University Press,	---	2000
4	Environmental Economics in Theory and Practice,	Nick Hanley, Jason F. Shogren and Ben White	Macmillan		1991
5	Environmental and Natural Resource Economics	Tom Tietenberg	Pearson	2 nd	2005
6	Environmental Economics: Theory, Management and Policy.	Jhingan.M.L & Chandra K.Sharma		2 nd	2012

III SEMESTER

Course Title	LABOUR ECONOMICS						
Course Type	Soft Core -Theory	Total Hours	64	Hours/Week	04	Credits	04
Course Code	Evaluation	Internal	C1+C2=15+15		30Marks		

		External	Duration	C3	03 Hr.	70 Marks	100
CO No.	Course Objectives (COs) On completion of the course the student will be able						
CO-1	To introduce the concepts of nature, scope & evolution of labour economics.						
CO-2	To understand the labour market and labour market equilibrium in the economy.						
CO-3	To gives an idea about labour market force – supply of & demand for labour.						
CO-4	To be aware of employment, wage and wage discrimination in the economy.						
Mapping of CLOs with PSOs & CDLs							
CLOs No.	Course Learning Outcomes(CLOs) On completion of the course the student will learn to				PSOs Addressed		CDLs
CLO-1	Understand labour economics concepts, nature, and scope.				PSO-1		Understand
CLO-2	Understand the labour market equilibrium, labour market rigidity and flexibility.				PSO-2		Understand
CLO-3	Analyze the determinants of labour supply and determinants of labour demand.				PSO-1		Analyze
CLO-4	Evaluate the employment and economic development and concept of wage and economic development.				PSO-5		Evaluate
CLO-5	Understand the concept of skilled labour and human capital development approach.				PSO-5		Understand

Course Content		Duration
Module: I Introduction		16Hrs
1.1.	Labour Economics, concept, nature & scope	
1.2.	Evolution of labour Economics	
1.3.	Distinct features of labour as a factor input	
1.4.	Relationship between labour economics & labour problems	
1.5.	Importance of labour Economics	
Keywords: Understand labour economics concepts, nature, and scope.		
Module: II Labour Market		16Hrs
2.1.	Labour market concept- Differences between labour market & commodity market	
2.2.	Labour market imperfections	
2.3.	Classical, Neo-classical & modern approaches to labour market	
2.4.	Labour market equilibrium- Labour market rigidity- Labourmarket flexibility	
2.5.	Changing nature of labour market under globalization	

Keywords: Analyze the determinants of labour supply and determinants of labour demand.		
Module: III Labour Market forces- Supply of & Demand for labour		16Hrs
3.1.	Concept of labour supply- Determinants of labour supply	
3.2.	Supply of women & child labour	
3.3.	Changing demographic trends & labour supply	
3.4.	Labour migration & supply of labour	
3.5.	Demand for labour- Determinants of the demand for labour	
Keywords: Evaluate the employment and economic development and concept of wage and economic development.		
Module: IV Employment & Wage		16Hrs
4.1.	Employment & economic development - New dimensions of employment	
4.2.	Concept of decent job, casual & permanent employment	
4.3.	Causes, consequences & measures to reduce unemployment	
4.4.	Wage concept, Wage & economic development	
4.5.	Skill development -Human capital development approach to labour productivity	
Keywords: Understand the concept of skilled labour and human capital development approach.		
Note: Course content involves 100% of theory.		

Self-study Components

Module 1:	Panel discussion on multidisciplinary character of labour Economics - listing the problems of industrial labour & unorganized labour
Module 2:	Listing the evidences of labour market Imperfections – seminar on the implications of labour market imperfections on labour.
Module 3:	Exploring the supply position of labour in a particular region, city or a village (both organized & unorganised) - panel discussion among students on the determinants of demand for labour- To understand migratory character of labour
Module 4:	Collecting Evidences on Wage differentials and wage discrimination

References

Sl. No	Title of the book	Author	Publisher	Edition	Year
1	Labour Economics	Mittal A.C & Sanjay Prakash Sharma RSBA	Jaypur,	--	2005
2	Economics of Labour & Industrial Relations	Bhagoliwal T.N Sahitya Bhavan	Agra,	2 nd	1998

3	Labour Economics,	George J. Bayers,	McGraw Hill	--	2000
4	Contemporary Labour Economics,	McConnell & Stanley Brue,	McGraw Hill		2002
5	Economics of Labour, references,	Phelps Brown Ed	Yale University press	3 rd	1983

III SEMESTER

Course Title		INFRASTRUCTURE ECONOMICS					
Course Type	Soft Core Theory	Total Hours	64	Hours/Week	04	Credits	04
Course Code	Evaluation	Internal	C1+C2=15+15			30Marks	
		External	Duration	C3	03 Hr	70 Marks	100
CO No.	Course Objectives (COs) On completion of the course the student will be able						
CO-1	To understand the concept and importance of social infrastructure and quality of living.						
CO-2	To provide knowledge on the investment in education and trends in public expenditure.						
CO-3	To understand the financing of health care services and importance of health insurance.						
CO-4	To provide knowledge about housing demand and supply, water supply and sanitation.						
Mapping of CLOs with PSOs & CDLs							
CLOs No.	Course Learning Outcomes(CLOs) On completion of the course the student will learn to			PSOs Addressed	CDLs		
CLO-1	Understand the development of social infrastructure in India.			PSO-5	Understand		
CLO-2	Evaluate the social rate of return on investment in education.			PSO-2	Evaluate		
CLO-3	Understand the role of government in financing of healthcare services.			PSO-2	Understand		
CLO-4	Analyse the role of government in providing housing services.			PSO-5	Analyze		
CLO-5	Evaluate the water supply schemes, sanitation programs problems in rural areas.			PSO-5	Evaluate		

Course Content		Duration
Module: 1 Social Infrastructure		16Hrs
1.1.	Concept- Importance- Social infrastructure and quality of living	
1.2.	Equity and Social concerns- Approaches to develop social infrastructure,	

1.3.	Traditional and new methods- community participation Privatization feasibility	
1.4.	Opportunities and Possibilities- Development of social infrastructure in India.	
Keywords: Understand the development of social infrastructure in India.		
Module: II Education		16Hrs
2.1.	Investment in Education – Analysis of Cost and Cost Concepts	
2.2.	Measurement- trends in Public expenditure on Education- Measurement of Benefits	
2.3.	Social rate of Return on Investment in Education- Educational Planning	
2.4.	Considerations and Issues- Privatization of Education -GATS and Higher Education	
2.5.	Issues in Governance and Management- Policy issues.	
Keywords: Evaluate the social rate of return on investment in education.		
Module: III Health		16Hrs
3.1.	Supply and Demand for Health care services-Methods of Estimation	
3.2.	Derivation of Individual and Market Demand for Health Care Services	
3.3.	Financing of Health care Services- Role of Government- Health Insurance	
3.4.	Role of Institutions- Health Policy- issues and Concerns- Evaluation.	
Keywords: Analyse the role of government in providing housing services.		
Module: IV Housing		16Hrs
4.1.	Housing: Demand and Supply analysis- Methods of estimation	
4.2.	Financing of housing- Public and Private Investment	
4.3.	Role of Institutions- Emerging Housing Market- Challenges and Opportunities	
4.4.	Housing Policy: Priorities and concerns	
4.5.	Water Supply and Sanitation: Water Supply Schemes-Sanitation Programs	
4.6.	Problems in Rural Areas – Role of Public Sector	
Keywords: Evaluate the water supply schemes, sanitation programs problems in rural areas.		
Note: Course content involves 100% of theory		

References:

Sl. No	Title of the book	Author	Publisher	Edition	Year
1	“Infrastructure for Development, World Development Report, , New York, 1994.	Oxford University Press	Oxford University Press		1994

2	India Development Reports, Ed) , Press, New Delhi.	Parikh K.S.	Oxford University		2000
3	Economics of Infrastructure, vol. IV, New Delhi, 1976.	Indian Council of Social Science Research (ICSSR),	Indian Council of Social Science Research (ICSSR),	4 th	1976
4	The Economics of Energy		Paul Stevens	Vol I & II	2000
5	Pricing in Public Sector: Theory and Applications, , New Delhi, 1992.	Sankar U	Indian Economic Association Trust for Research and Development		1992
6	Economics of Education,		Penguin Books		1971
7	Health Economics	Zweifel Peter & Freidrick Breyer,	Oxford University Press,		1997
8	Modern Transport Economics, London, 1971.	Nosten H.S, C.E.	Merrill	2 nd	1971
9	“The Contributions of Infrastructure to Economic Development: A Review of Experience and Policy Implications	Kessides Christiue,	World Bank Discussion Paper		2013, 1993.
10	India Infrastructure Reports				

III SEMESTER – Skill based course

Course Title	COMPUTER APPLICATION FOR ECONOMIC ANALYSIS (Interdisciplinary)						
Course Type	Soft Core- Theory	Total Hours	32	Hours/Week	02	Credits	02
Course Code	Evaluation	Internal	C1+C2 = 10+10			20 Marks	50
		External	Duration	C3	03Hrs	30 Marks	
CO No.	Course Objectives (COs) On completion of the course the student will be able						
CO-1	To understand the uses of computers in economics.						
CO-2	To apply excel in data entry, sorting, data import and export.						
CO-3	To analyse the data using Maths & Stats and data analysis tools in excel tools.						
CO-4	To present the data in table, charts and figures.						
Mapping of CLOs with PSOs &CDLs							
CLOs No.	Course Learning Outcomes(CLOs) On completion of the course the student will learn to				PSOs Addressed		
CLO-1	Understand usage of excel and software in economics.				PSO-1		Understand
CLO-2	Apply excel in data entry and data analysis.				PSO-3		Apply
CLO-3	Code and recode the data.				PSO-3		Apply
CLO-4	Present the data in tables, charts and figures.				PSO-4		Analyse
CLO-5	Analyse and interpret the results.				PSO-4		Analyse

Course Content		Duration
Module-1: Introduction		16Hrs
1.1	Inputting Data from the Keyboard - Creating File in Microsoft Excel - Loading of existing Data Set - Feeding Data from Raw Data File - Copying Data from MicrosoftExceltoClipboard-AddingTwoSheets/Files,EditingFiles-Printing, Saving and Copying Edited Files.	
1.2.	MS–Excel uses -Generating Frequency Table, Bar Chart, Pie Chart, and Histogram. Scatter Diagrams - Saving, Retrieving Data - Printing Output.	
Keywords: Understand and Apply excel in data entry and data analysis.		
Module: II-Data Processing and Data Management		16Hrs
2.1.	Introduction - Getting Started - Entering Data in the Data Viewer – DefiningVariables - Recoding Variables	
Keywords: Analyse and interpret the results.		
Note Course content involves 100% of practical.		

References

Sl. No	Title of the book	Author	Publisher	Edition	Year
1	Social Research Methods	Bryman Alan	Oxford University Press		

2	Statistics for Business with Computer Application	Edward Minioka	South-Western, USA		
3	Business Statistics	Sonia Taylor	Palgrave		
4	How to Do Just Anything on a Computer		Reader's Digest, London		
5	A First Course in Computers	Saxena Sanjay,	Vikas Pub, House Private Ltd		

III SEMESTER-Skill based course

Course Title		STATISTICS FOR ECONOMICS					
Course Type	Soft Core- Theory	Total Hours	32	Hours/Week	02	Credits	02
Course Code	Evaluation	Internal	C1+C2 = 10+10		20 Marks		50
		External	Duration	C3	03Hrs	30 Marks	
COURSE OBJECTIVES(COs)							
CO No.	Course Objectives On completion of the course the student will be able to						
CO-1	Give the basic foundations of statistical analysis.						
CO-2	Understand the different techniques for analyzing the data.						
CO-3	Understand the trends with the help of statistical tools.						
CO-4	Provide various tools which helps in decision making						
Mapping of CLOs with PSOs&CDLs							
CLOs No.	Course Learning Outcomes(CLOs) On completion of the course the student will learn to				PSOs Addressed		
CLO-1	Give the quantitative skills to collect, analyse and Interpret the analytical data.				PSO-3		Analyse
CLO-2	Analyses the data (primary or secondary) with the help of simple statistical tools.				PSO-2		Analyse
CLO-3	Provides basics for research.				PSO-4		Apply
CLO-4	Apply and evaluate the economic models.				PSO-5		Evaluate
CLO-5	Provide an idea about probability and its applications in real life				PSO-1		Understand

Course Content		Duration
Module: 1 Theories of Distribution		16Hrs
1.1	Theory of Probability Distribution Functions	
1.2	Theoretical Distribution: Normal, t, Chi-Square & F Distribution	
1.3	Binominal and Poisson distribution	
<i>Keywords: Analyses the data (primary or secondary) with the help of simple statistical tools.</i>		
Module: II Basic Statistical techniques		16Hrs
2.1	Measure of Central Tendencies : Mean, Median and Mode	
2.2	Measure of Dispersion: Range, Quartile, Mean deviation, Standard deviation	
2.3	Skewness and Kurtosis	
2.4	Graphical presentation and its interpretation	
<i>Keywords: Apply and evaluate the economic models.</i>		
Note: Course content involves 20% of theory and 80% of Problems		

References

Sl. No	Title of the book	Author	Publisher	Edition	Year
1	Statistics for Business & Economics	Anderson, Sweeney & Williams	Thomson South-Western	13 th	2017
2	Statistical Methods	Gupta S P.	S. Chand and Company	4 th	2011
3	Quantitative Methods for Economists	Veerachami R.	New Age International Publication	2 nd	2008
4	Statistics - An Introductory Analysis	Yamane Toro	Harper and Row Publishers	2 nd	2009

IV SEMESTER

Course Title	INTERNATIONAL FINANCE AND BUSINESS						
Course Type	Hard Core-Theory	Total Hours	64	Hours/Week	04	Credits	04
Course Code	Evaluation	Internal	C1+C2=15+15			30Marks	
		External	Duration	C3	03 Hr	70 Marks	100
CO No.	Course Objectives (COs) On completion of the course the student will be able						
CO-1	To provide knowledge about international finance and international capital flows.						
CO-2	To aware about the foreign exchange market systems.						
CO-3	To understand the theories of foreign exchange rate.						
CO-4	To provide knowledge about Central bank and balance of payment determinants.						
Mapping of CLOs with PSOs & CDLs							
CLOs No.	Course Learning Outcomes(CLOs) On completion of the course the student will learn to			PSOs Addressed	CDLs		
CLO-1	Understand the importance of international finance and International capital flows.			PSO-5	Understand		
CLO-2	Evaluate the functions of foreign exchange market and International money market.			PSO-5	Evaluate		
CLO-3	Apply and analyze the foreign exchange rate theories.			PSO-3	Analyze		
CLO-4	Understand the international financial market integration.			PSO-5	Understand		
CLO-5	Analyze the role of central bank in managed exchange rate and balance of payment determinants.			PSO-2	Analyze		

Course Content		Duration
Module: I International Finance		12 Hrs
1.1	International Money and Finance - Circular Flow of Income and Product	
1.2	International Capital Flows - Motives and Effects of International Capital Flows -Multinational Corporations	
1.3	Labour Migration - Motives and Effects of International Labour Migration.	
1.4	Balance of Payments and accounting principles	
Keywords: Understand the importance of international finance and international capital flows.		
Module: II Foreign Exchange Markets		14Hrs

2.1.	Functions of Foreign Exchange Markets - Exchange Rates and the Markets for Foreign Exchange	
2.2	Foreign Exchange Risks Hedging and Speculation.	
2.3	Demand and Supply of Currencies - Introduction to Foreign Exchange Rate Theories	
2.4	International Money Markets- Gold Standard - Bretton Woods System – Flexible Exchange Rate System	
2.5	Composite Currencies: Special Drawing Rights and European Currency Module -Foreign Exchange Arbitrage	
Keywords: Evaluate the functions of foreign exchange market and international money market.		
Module: III International Financial Instruments		14Hrs
3.1.	The price adjustment mechanism with flexible and fixed exchange rates- stability of foreign exchange market-The J-curve effect- Adjustment under the gold standard.	
3.2.	International Financial Market Integration: International Capital Markets - International Money Markets - Vehicle Currencies	
3.3.	Capital Market Integration - International Banking and Payment System.	
Keywords: Apply and analyze the foreign exchange rate theories.		
Module: IV Central Banks, Exchange Rates, and Balance of Payments Determination		12Hrs
4.1.	Role of the Central Banks: Managed Exchange Rates: Foreign Exchange Interventions	
4.2.	Traditional Approaches to Exchange-Rate and Balance of Payments Determination: Exports, Imports and the Demand for and Supply of Foreign Exchange	
4.3.	Elasticity Approach - Absorption Approach - Monetary and Portfolio Approaches to Exchange Rate and Balance of Payment Determination.	
4.4.	Open Economy : An Open Economy Framework - Economic Policy with Fixed Exchange Rates	
4.5.	Economic Policy with Floating Exchange Rates - Policy Co-ordination	
4.6	Monetary Union and Target Zones - Monetary and Fiscal Policy under Fixed Exchange and Floating Exchange Rates.	
Keywords: Analyze the role of central bank in managed exchange rate and balance of payment determinants.		
Note: Course contents involves 100% of theory.		

Self-Study Topic:

Exchange rate determinants, fixed exchange rate, flexible exchange rate system.

IMF and World Bank: role present function of IMF and World Bank.

IMF and developing countries. World Bank and developing world, Asian development bank.

References

Sl. No	Title of the book	Author	Publisher	Edition	Year
1	International economics	Dominick Salvatore	John wiley and sons.	5 th	2016

2	International economics	Robert J Carbaugh, Thomson	South western.	2 nd	2005
3	International trade	MIA Mikic,	Macmillan press LTD.	--	2008
4	Global Financial Management,	Thomas J. O'' Brien			1999

IVSEMESTER

Course Title	MANAGERIAL ECONOMICS						
Course Type	Hard Core- Theory	Total Hours	64	Hours/Week	04	Credits	04
Course Code	Evaluation	Internal	C1+C2 = 15+15			30 Marks	
		External	Duration	C3	03Hrs	70 Marks	
CO No.	Course Objectives (COs) On completion of the course the student will be able						
CO-1	To understand the scope and objectives of Managers and entrepreneur.						
CO-2	To analyse the objectives, theories and profit of Firm.						
CO-3	To evaluate the various projects.						
CO-4	To understand the internet or online business environment.						
Mapping of CLOs with PSOs &CDLs							
CLOs No.	Course Learning Outcomes(CLOs) On completion of the course the student will learn to				PSOs Addressed		
CLO-1	Understand the role of managers, entrepreneur and Various theories of Firm.				PSO-1		Understand
CLO-2	Evaluate the various theories of Profit.				PSO-2		Evaluate
CLO-3	Analyse and forecast the demand for the products.				PSO-3		Analyse
CLO-4	Apply and evaluate various projects.				PSO-4		Apply
CLO-5	Analyse and evaluate the K-enterprise.				PSO-5		Evaluate

Course Content		Duration
Module: I Managerial theories		12 Hrs
1.1	Role of Managerial Economists, significance of managerial economics	
1.2	Firm organization: sole proprietorship, partnership, Joint Stock Company, corporation, co-operatives.	
1.3	Theory of firm; profit maximization, Baumol's sales revenue maximization model, managerial utility model- Williamson model, Marries model of managerial enterprises	

1.4	Behavioral theories; Simons satisfying model, Cyert and March's behavioral theory of the firm.	
Keywords: Understand the role of managers, entrepreneur and various theories of Firm.		
Module: II Demand forecasting and Price practices and strategies		12 Hrs
2.1	Demand forecasting: purpose of forecasting demand, Determining scope of forecasting,	
2.2	Methods of demand forecasting survey method, statistical method.	
2.3	Price practices and strategies :Cost oriented pricing,	
2.4	Cost-plus pricing marginal cost pricing rate of return and competition oriented pricing, Going rate pricing, profit policy, planning and forecasting.	
2.5	Break-even analysis planning for profit.	
Keywords: Analyse and forecast the demand for the products.		
Module: III- Capital budgeting		13Hrs
3.1	Meaning and importance of capital budgeting,	
3.2	Benefit and cost analysis, steps for capital project evaluation,	
3.3	Modern techniques for investment appraisal.	
Keywords: Apply and evaluate various projects.		
Module-IV: K- Economy		13Hrs
4.1	Meaning, Knowledge as a factor of production	
4.2	Features- knowledge management- Internet economics	
4.3	Internet infrastructure- The Internet/Knowledge application infrastructure	
4.4	The internet commerce- K-profit- K enterprise portfolio analysis	
Keywords: Analyse and evaluate the K-enterprise.		
Note: Course content involves 30% of Problems and 70% of theory.		

Self-study topics

Theory of pricing: Monopolistic competition, duopoly, oligopoly, profit theory, residual claimant theory, wage theory of profit, dynamic surplus theory, innovation theory role government in business.

References

Sl. No	Title of the book	Author	Publisher	Edition	Year
1	Managerial economics analysis and problems and cases	P.L. Mehta	Sulthan and Chand and sons	-	2016
2	Business and managerial economics in global context	Sampat Mukherjee	New central book agency (p) Ltd	-	2009

3	Managerial Economics: Applications, Strategy and Tactics	McGuigon R. James, R. Charles Moyer, Frederick H Deb, Harris	South Western, USA	-	2002
4	Managerial Economics in a Global Economy	Salvatore Dominick	McGraw Hill Inc, New York	-	1993
5	Managerial Economics:	Salvatore Dominick	Oxford University Press	6 th	2007
	Principle sand World Wide Application				

IV SEMESTER

Course Title	WELFARE ECONOMICS						
Course Type	Hard Core- Theory	Total Hours	64	Hours/Week	04	Credits	04
Course Code	Evaluation	Internal	C1+C2 = 15+15			30 Marks	
		External	Duration	C3	03Hrs	70 Marks	
CO No.	Course Objectives (COs)						
	On completion of the course the student will be able						
CO-1	To understand the concept of individual and social welfare function.						
CO-2	To analyse the various welfare theories.						
CO-3	To evaluate the various general equilibrium models.						
CO-4	To understand the various choice theories and models.						
Mapping of CLOs with PSOs & CDLs							
CLOs No.	Course Learning Outcomes(CLOs)			PSOs Addressed	CDLs		
	On completion of the course the student will learn to						
CLO-1	Understand concept of individual and socialwelfare function.			PSO-1	Understand		
CLO-2	Analyse the various welfare theories.			PSO-2	Analyse		
CLO-3	Evaluate the various generalequilibrium models.			PSO-2	Evaluate		
CLO-4	Understand the various choicetheories and models.			PSO-5	Understand		
CLO-5	Construct the welfare models.			PSO-4	Apply		

Course Content		Duration
Module:1 Pre- Paretian Welfare Economics		14Hrs
1.1	Growth of GNP as criterion of welfare - Benthamite criterion- Cardinalist criterion	
1.2	Marshallian Welfare Economics-Consumer's Surplus; Measurement of Consumer's Surplus –Hicks's Consumer's surpluses.	

1.3	Paretian Welfare Economics : Pareto optimality- Optimum exchange conditions- The production optimum, The consumption optimum	
1.4	Concept of contract curve	
1.5	Infinite number of non-comparable optima vs. unique social optimum	
Keywords: Understand concept of individual and social welfare function.		
Module: II Paretian Welfare Economics II		12Hrs
2.1	Compensation criteria of Barone, Kaldor and Hicks; The Scitovsky double criterion	
2.2	Concept of community indifference map-Samuelson „s utility possibility curve	
2.3	Value judgments and welfare economics; Bergson’s social welfare function	
2.4	Arrow’s Impossibility theorem.	
Keywords: Analyse the various welfare theories.		
Module: III General Equilibrium Theory		12Hrs
3.1	Interdependence in the Economy - Partial and General Equilibrium Analyses	
3.2	Walrasian Excess Demand and Input - Output Approaches to General Equilibrium - Existence, Uniqueness and Stability of Equilibrium.	
3.3	Simultaneous Equilibrium - General Equilibrium and Allocation of Resources	
3.4	Prices of Commodities and Factors - Factor Ownership and Income Distribution.	
3.5	Relationship between Relative Commodity and Factor Prices (Stolper-Samuelson Theorem)	
3.6	Relationship between Output Mix and Real Factor Prices, Effect of Changes in Factor Supply in Closed Economy (Rybczynski Theorem) – Production and Consumption.	
Keywords: Evaluate the various general equilibrium models.		
Module: IV Choice Theory		12Hrs
4.1.	Externalities and Market Failures - Welfare Economics and Social Choice Theory.	
4.2.	Problem of Public Goods - Pigouvian Welfare Economics - Second Best Optima – Sen’s Contributions to Welfare Economics - Collective Choice and Social Welfare.	
Keywords: Construct the welfare models.		
Note: Course content involves 100% of theory		

Self-study Component:

Measurement of Economic Welfare - Definition - Utilitarian Economics (Pre-Paretian Welfare Economics)

Interdependence in the Economy – Partial and General Equilibrium Analyses; Marshallian Welfare Economics: Consumer's Surplus; Measurement of Consumer's Surplus – Difficulties involved, Criticism;

References

Sl. No	Title of the book	Author	Publisher	Edition	Year
1	Social choice and Individual Values	Arrow, K. J	Yale University Press	-	1951
2	Welfare Economics and the Theory of the State	Baumol. W. J	Longmans, London	2 nd	1965
3	Welfare Economics	Baumol. W. J.	Edward Elgar Publishing Ltd. U.K	-	2001
4	Welfare Economics	Myint. H.	Macmillan, London	-	1948
5	Economic Theory and the Welfare state	Nicholas, B.	Edward Elgar Publishing Ltd., U.K	-	2001
6	The Economics of Welfare	Pigou, A. C.	Macmillan	4 th	1962
7	Modern Microeconomics	Koutsoyiannis	Macmillan, London	-	1997
8	Microeconomics Theory and Applications	Dominick Salvatore	Oxford University Press	-	2003

IV SEMESTER

Course Title	TERM PROJECT						
Course Type	Soft Core Theory	Total Hours	64	Hours/Week	04	Credits	04
Course Code	Evaluation	Internal	C1+C2=15+15			30Marks	
		External	Duration	C3	03 Hr	70 Marks	100
CO No.	Course Objectives (COs) On completion of the course the student will be able						
CO-1	To make them identify the problem area of research work.						
CO-2	To provide knowledge on the variables and find the same with their respective area of research.						
CO-3	To understand and to construct the objectives and the hypothesis of the research.						
CO-4	To provide knowledge about how to prepare research project.						
Mapping of CLOs with PSOs & CDLs							
CLOs No.	Course Learning Outcomes(CLOs) On completion of the course the student will learn to			PSOs Addressed		CDLs	
CLO-1	Understand the practical aspect of the research.			PSO-4		Understand	

CLO-2	Evaluate the problem area of the research.	PSO-4	Evaluate
CLO-3	Understand the collection and interpretation of the research data.	PSO-3	analyze
CLO-4	Able to publish the research article.	PSO-4	Evaluate
CLO-5	Use the statistical tools in the research project.	PSO-3	Apply

	Course Content	Duration
Term Project Evaluation		
	<p>Right from the initial stage of defining the problem, the candidate has to submit the progress reports periodically and also present his / her progress in the form of seminars in addition to the regular discussion with the guide. Components of evaluation are as follows: Component – I (C₁): Periodic Progress and Progress Reports (15) Component – II (C₂): Results of Work and Draft Report (15) Component – III (C₃): Final Viva Voce and evaluation (70). The report evaluation is for 40 and the Viva –voce examination is for 30.</p>	
Note : Course content involves 100% of Practical		

References

Sl. No	Title of the book	Author	Publisher	Edition	Year
1	Statistics for Business & Economics	Anderson, Sweeney & Williams	Thomson South-Western	13 th	2017
2	Statistical Methods	Gupta S P.	S. Chand and Company	4 th	2011
3	Quantitative Methods for Economists	Veerachami R.	New Age International Publication	2 nd	2008
4	Statistics - An Introductory Analysis	Yamane Toro	Harper and Row Publishers	2 nd	2009

IV SEMESTER

Course Title	APPLIED ECONOMETRICS						
Course Type	Soft Core- Theory	Total Hours	64	Hours/Week	04	Credits	04
Course Code	Evaluation	Internal	C1+C2 = 15+15			30 Marks	
		External	Duration	C3	03Hrs	70 Marks	
CO No.	Course Objectives (COs) On completion of the course the student will be able						

CO-1	To provide knowledge about the application of econometrics.		
CO-2	To apply and analyse the time series analysis.		
CO-3	To evaluate the time series models		
CO-4	To conduct the empirical research or doing a project.		
Mapping of CLOs with PSOs &CDLs			
CLOs No.	Course Learning Outcomes(CLOs) On completion of the course the student will learn to	PSOs Addressed	CDLs
CLO-1	Understands the econometrics application to economic theory.	PSO-1	Understand
CLO-2	Evaluate the time-series models.	PSO-3	Evaluate
CLO-3	Apply the error correction for time series model.	PSO-3	Analyse
CLO-4	Test hypothesis and interpret the results.	PSO-4	Apply
CLO-5	Evaluate the econometric models and empirical analysis.	PSO-4	Evaluate

Course Content		Duration
Module: 1 Time Series Analysis		16Hrs
1.1.	Introduction - Stationary and Non-stationary series	
1.2.	Testing of a Module root - Co integration-Error Correction Model	
1.3.	Introduction for ARCH and GARCH Modeling.	
<i>Keywords: Understands the econometrics application to economic theory.</i>		
Module: II Demand Analysis		16Hrs
2.1.	Single Demand equation Model.	
2.2.	Dynamic demand analysis	
2.3.	Empirical Analysis of Demand for Money; Estimation of Production Function.	
2.4.	Cobb- Douglas-CES production function: Trans-log- Phillips Curve	
<i>Keywords: Evaluate the time-series models.</i>		
Module: III Logistic Regression Models		16Hrs
3.1.	Logit Model	
3.2.	Probit Model	
<i>Keywords: Test hypothesis and interpret the results.</i>		
Module: IV Conducting empirical research or doing a project		16Hrs
4.1.	What is an empirical research project? - What is it for? - Selecting the topic.	
4.2.	Review of literature - Permutation of General Model	

4.3.	Empirical works conducted for Indian Economy
4.4.	Demand analysis - Production Function analysis
4.5.	Application of Econometrics in Agriculture.
Keywords: Evaluate the econometric models and empirical analysis	
Note: Course content involves 20% of theory and 80% of problems.	

Reference:

Sl. No	Title of the book	Author	Publisher	Edition	Year
1	An Introduction to Applied Econometrics a time series approach	Kerry Patterson	Macmillan Press LTD	-	2000
2	Introductory Econometrics for finance	Chris Brooks	Cambridge University Press	-	2002
3	Applied Econometrics	Meghnad Desai	Mehra Hill Publishing company Ltd	-	1997
4	Introductory Econometrics with Applications	RamuRamanthan	Thomson- South-western Bangalore	-	2002

IV SEMESTER

Course Title	HUMAN DEVELOPMENT: DIMENSIONS AND DISPARITIES						
Course Type	Soft Core Theory	Total Hours	64	Hours/Week	04	Credits	04
Course Code	Evaluation	Internal	C1+C2=15+15			30Marks	
		External	Duration	C3	03 Hr.	70 Marks	
CO No.	Course Objectives (COs) On completion of the course the student will be able						
CO-1	To understand the concept of human development and measuring human development.						
CO-2	To provide knowledge about relationship between economic growth and human development.						
CO-3	To understand the consumption and the links with human development.						
CO-4	To provide knowledge about new dimensions of human security and human rights and human development.						
Mapping of CLOs with PSOs & CDLs							
CLOs No.	Course Learning Outcomes(CLOs) On completion of the course the student will learn to			PSOs Addressed			

CLO-1	Understand the nature, scope and significance of human development.	PSO-5	Understand
CLO-2	Analyse the relationship between economic growth and human development.	PSO-5	Analyze
CLO-3	Understand the role of government in financing of health care services.	PSO-3	Understand
CLO-4	Understand the struggles for human freedoms and human rights.	PSO-5	Understand
CLO-5	Evaluate the Millennium Development Goals and Challenges in meeting the goals.	PSO-5	Evaluate
Course Content			Duration
Module: 1 Introduction to Human Development			16Hrs
1.1.	Concept of Human Development - Defining Human Development – Measuring Human Development.		
1.2.	HDI - Human Poverty Index - Gender Development Index (GDI) Gender Empowerment Measure (GEM)		
1.3.	Changes in and Implications of HDI and GDI across the Countries		
1.4.	Need for and Significance of Separate Study of Human Development		
1.5.	Nature and Scope and Major Concerns of Human Development as a Branch of Economics		
Keywords: Understand the nature, scope and significance of human development.			
Module: II Economic Growth and Human Development			16Hrs
2.1.	Relationship between Economic Growth and Human Development		
2.2.	Sustained Human Development - Disrupted Human Development		
2.3.	Missed Opportunities for Human Development- Efficiency in Human Development		
2.4.	Financing Human Development		
2.5.	Growth as a Means to Human Development - Human Capabilities Approach to Development		
Keywords: Analyse the relationship between economic growth and human development.			
Module: III Consumption, New Technologies and Human Development			16Hrs
3.1.	Consumption from a Human Development Perspective- Concepts of Consumption - Factors Affecting Consumption Options		
3.2.	Consumption and the Links with Human Development		
3.3.	Environmental Sustainability and Human Development		
3.4.	Unequal Human Impacts of Environmental Damage		
3.5	New Technologies and Human Development		
Keywords: Understand the role of government in financing of health care services.			
Module: IV Human Development in the New Millennium			16Hrs

4.1.	New Dimensions of Human Security	
4.2.	Human Rights and Human Development - Interlinks	
4.3.	The Struggles for Human Freedoms	
4.4.	Promoting Rights in Human Development	
4.5.	The Millennium Development Goals: Concept and Goals	
4.6.	Priority Challenges in Meeting the Goals	
Keywords: Evaluate the Millennium Development Goals and challenges in meeting the goals.		
Note: Course content involves 100% of theory		

Self-Study Component

1. Human development index
2. Sustainable development goals

References:

Sl. No	Title of the book	Author	Publisher	Edition	Year
1	Reflections on Human Development,	Haq , Mahbub, UI	OUP	--	1995
2	The Quality of Life	Nussabaum Martha C and Sin, Amartya	Clarendon Press, Oxford	2 nd	1996
3	Theory of Justice,	Ranils	Harvard University Press	3 rd	1971
4	Commodities and Capabilities,	Sen, Amartya K	North-Holland, Amsterdam.	1 st	1985
5	Development As Freedom,	Sen, Amartya K	Oxford University Press	2 nd	2000
6	Human Development Reports,	Moduleed Nations Development Programme	Oxford University Press, Oxford.		1990

IV SEMESTER- Skill based course

Course Title	SOFTWARE USAGE FOR ECONOMICS						
Course Type	Soft Core- Theory	Total Hours	32	Hours/Week	02	Credits	02
Course Code	Evaluation	Internal	C1+C2 = 10+10			20 Marks	50
		External	Duration	C3	03Hrs	30 Marks	
CO No.	Course Objectives (COs)						
	On completion of the course the student will be able						
CO-1	To understand the usage of Software like SPSS, Eviews and STATA in economics.						
CO-2	To enter the different types of data in the software.						
CO-3	To calculate the models with the different quantitative applications in the software.						

CO-4	To analyse, interpret and present the data.		
Mapping of CLOs with PSOs & CDLs			
CLOs No.	Course Learning Outcomes(CLOs) On completion of the course the student will learn to	PSOs Addressed	CDLs
CLO-1	Understand usage different software in economics.	PSO-1	understand
CLO-2	Enter the different sets of data and analyse it.	PSO-3	Apply
CLO-3	Able to code and recode the data.	PSO-3	Apply
CLO-4	Able to apply, analyse and evaluate the different economic models	PSO-5	Evaluate
CLO-5	Able to interpret and present the data in the form of projects.	PSO-4	Analyse

Course Content		Duration
Module: I Data Estimation		16Hrs
1.1.	Data Analysis with Statistical Software -Calculation of Probability, Calculation of Central Tendencies : Arithmetic Mean, Median, Measure of Dispersion Standard Deviation and Range, Contingency Table, Chi-square and Cramer's V, Pearson's r , and Spearman's rho	
1.2.	Estimation of Correlation Coefficient Zero Correlation Matrix -Partial	
	Correlation - Estimation of Simple Regression - Ordinary Least Squares - Estimation of Multiple Regressions.	
Keywords: Enter the different sets of data and analyse it.		
Module: II Test of Statistical Significance		16Hrs
2.1.	Test of Statistical Significance - „t“ Test - F Test - ANOVA Test - Chi- Square Test Construction of Index Numbers - Deflating a Series by Price Indexes - Time Series Analysis and Forecasting.	
Keywords: Able to apply, analyse and evaluate the different economic models		
Note: Course content involves 100% of Practical		

References

Sl. No	Title of the book	Author	Publisher	Edition	Year
1	Social Research Methods	Bryman Alan	Oxford University Press	-	2009
2	Statistics for Business with Computer Application	Edward Minieka	South-Western, USA	-	2000
3	Business Statistics	Sonia Taylor	Palgrave	-	2001
4	How to Do Just Anything on a Computer	-	Reader“s Digest, London	-	2000
5	A First Course in Computers	xena Sanjay,	Vikas Pub, House Private Ltd	-	2009

IV SEMESTER- Skill based course

Course Title	WRITING AND PUBLICATION						
Course Type	Soft Core- Theory	Total Hours	32	Hours/Week	02	Credits	02
Course Code	Evaluation	Internal	C1+C2 = 10+10			20 Marks	50
		External	Duration	C3	03Hrs	30 Marks	
CO No.	Course Objectives (COs) On completion of the course the student will be able to						
CO-1	Understand the importance of research in the subject						
CO-2	Analyse the different types of writing for publication.						
CO-3	Learn to write the research article and proposals						
CO-4	Learn to publish the articles						
Mapping of CLOs with PSOs & CDLs							
CLOs No.	Course Learning Outcomes(CLOs) On completion of the course the student will learn to				PSOs Addressed	CDLs	
CLO-1	Understand the importance of writing skills				PSO-1	understand	
CLO-2	Learn the different formats of research writing.				PSO-3	Analyse	
CLO-3	Write the research proposal				PSO-3	Apply	
CLO-4	Publish the research articles.				PSO-5	Apply	

Course Content		Duration
Module: I Writing for Publication		16Hrs
1.1.	Cover letters	
1.2.	Formatting and Editing	
1.3	Conference Proposals and Presentation	
1.4	Writing Research Proposal	
Keywords: Learn the different formats of research writing.		
Module: II Publication		16Hrs
2.1.	Publishing Articles in Academic Journals	
2.2	Publishing Books and in Books	
2.3	Other Sorts of Publishing	
Keywords: Publish the research articles.		
Note: Course content involves 100% of theory		

References



Sl. No	Title of the book	Author	Publisher	Edition	Year
1	Writing for Publication: Tradition and tools that support scholars	Mary Renck Jalongo, Olivia .N. Saracho	Springer	-	2016
2	Writing for Scholarly Publication	Anne Sigismund Huff	SAGE Publication	-	-
3	Writing for Publication	Debbie Epstein, Jane Keneway and Rebecca Boden	SAGE Publication	-	2005

Generic Elective Courses Offered for Other Departments

II SEMESTER

Course Title	INDIAN ECONOMY						
Course Type	Open Elective Paper	Total Hours	32	Hours/Week	02	Credits	02
Course Code	Evaluation	Internal	C1+C2=15+15		20Marks		50
		External	Duration	C3	0Hr	30 Marks	
CO No.	Course Objectives (COs) On completion of the course the student will be able						
CO-1	Understand the concept of features of Indian economy and Human development status in India.						
CO-2	Analyse the planning models in India.						
CO-3	Understand the population explosion, demographic dividend and population policy.						
CO-4	Provide knowledge about concept and measurement of poverty and unemployment.						
Mapping of CLOs with PSOs & CDLs							
CLOs No.	Course Learning Outcomes(CLOs) On completion of the course the student will learn to			PSOs Addressed		CDLs	
CLO-1	Understand the concept of Indian public finance and FDI in India.			PSO-2		Understand	
CLO-2	Able to understand the objectives and features of Indian planning.			PSO-2		Understand	
CLO-3	Analyze the Indian population growth and demographic dividend.			PSO-5		Analyse	
CLO-4	Able to understand the poverty alleviation and employment programme.			PSO-5		Analyse	
CLO-5	Evaluate the structural adjustment programmes and stabilization programmes.			PSO-2		Evaluate	

Course Content	Duration

Module: 1 An overview of the Indian Economy		14Hrs
1.1.	Features of Indian Economy – Indian economy on the eve of Independence	
1.2.	National income, savings & capital formation – Sectoral composition of Indian economy	
1.3.	Human development status in India – Infrastructure development	
1.4.	Regional imbalances in development – Indian public finance – Inflation in India	
1.5.	FDI in India.	
Keywords: Able to understand the objectives and features of Indian planning.		
Module: II Planning in India		14Hrs
2.1.	Rationale, Objectives & features of Indian planning – planning machinery	
2.2.	Plan formulation, execution & evaluation	
2.3.	Planning Models, Mahalanobis & P.R. Brahmananda & C.N Vakil Model	
2.4.	Regional planning in India – 11 th five year plan, salient features & objectives	
2.5.	60 years of planning in India – planning under globalisation.	
Keywords: Evaluate the structural adjustment programmes and Stabilization programmes		
Note: Course content involves 100% of theory.		

Self-Study Components

Features of underdeveloped economy - problems of Agriculture, Industry & Infrastructure – Population & economic development – Controlling of population growth – Nexus between poverty & environment – Importance of small scale Industries – Growth & income distribution – employment concept – employment & economic development – planning commission – new industrial policy – role of foreign trade in economic development- occupational structure – Trade liberalization – Monetary & fiscal policy – WTO & GATS – banking structure – VAT- MODVAT- CENVAT- GST

References

Sl. No	Title of the book	Author	Publisher	Edition	Year
1	Indian Economy	K.P.M. Sundaram	S. Chand & company Ltd,	3 rd	2008
2	Indian Economy – Its Development Experience.	Misra S.K. & Puri V.K.,	Himalaya publishing house,	2 nd	2007
3	Indian Economy: Some issues & answers	Acharya Shankar,	Academic foundation		2003
4	Indian Economy since Independence,, New Delhi, 2003.	Kapila Uma	Academic foundation,	1 st	2003

5	Economic Policy Reforms & Indian Economy	Kruger O Anne	Oxford University press,		2003
6	R.B.I – Report on Currency & Finance				
7	Government of India Economic Survey,		Ministry of Finance		
8	Planning Commission – 11 th five year plan,			Latest	

II Semester

Course Title		Banking System in India					
Course Type	Open Elective Paper	Total Hours	64	Hours/Week	04	Credits	04
Course Code	Evaluation	Internal	C1+C2=15+15		30Marks		100
		External	Duration	C3	03 Hr	70 Marks	
CO No.	Course Objectives (COs)						
	On completion of the course the student will be able to						
CO-1	Understand the concept and importance of the Indian Banking system.						
CO-2	Analyse the role of banking sector in India.						
CO-3	Understand the historical background of the banking sector in India.						
CO-4	Provide knowledge about Reserve Bank of India, Commercial Banks and Regional Rural Banks in India.						
Mapping of CLOs with PSOs & CDLs							
CLOs No.	Course Learning Outcomes(CLOs)			PSOs Addressed	CDLs		
	On completion of the course the student will learn to						
CLO-1	Understand the importance of the banking system in India.			PSO-5	Understand		
CLO-2	Evaluate the role of reserve bank of India in the economy.			PSO-5	Evaluate		
CLO-3	Analyze of assets and liabilities of scheduled Commercial Banks in the banking system.			PSO-1	Analyze		
CLO-4	Able to understand the role and structure of the regional rural banks in India.			PSO-5	Understand		
CLO-5	Evaluate the development of the cooperative banks and role of RBI in cooperatives.			PSO-2	Evaluate		

Course Content		Duration
Module: 1 Introduction to Banking System in India		16Hrs
1.1.	Introduction - Historical Background	
1.2.	Banking Prior to 1950 - Development of Banking since 1950	
1.3.	Nationalization of Banks (1969)	

1.4.	National Credit Council	
1.5.	Banking Commission	
Keywords: Understand the importance of the banking system in India		
Module: II Role of Banking sector in India		16Hrs
2.1.	Introduction - Origin and Development	
2.2.	Structure and Management - Functions and Working of Reserve Bank of India	
2.3.	Role of Reserve Bank of India in the Economy.	
2.4.	<i>Commercial Banks:</i> Role, Functions - Financial Services-Analysis of assets and Liabilities of Scheduled Commercial Banks - inter Bank Borrowings.	
2.5.	<i>Regional Rural Banks:</i> Objectives - Role of RRBs - RBI Assistance - Evaluation of RRBs.	
2.6.	<i>Cooperative Banks:</i> Introduction - Organization Structure and Development of Cooperatives - Role of RBI in Cooperative Banks - National Bank for Agriculture and Rural Development (NABARD).	
Keywords: Evaluate the role of reserve bank of India in the economy.		
Note: Course content involves 100% of theory		

References:

Sl. No	Title of the book	Author	Publisher	Edition	Year
1	Indian Financial System	Khan, M. Y.	Tata McGraw-Hill Education,	2 nd	2010
2	Indian Financial System,	Machiraju H.R.	Vikas Publishing House PVT Ltd.,	3 rd	2015
3	Indian Banking	Parameswaran R and Natarajan S	S.Chand and Co, New Delhi.		2016
4	The Indian Financial System: Markets, Institutions and Services,	Pathak, Bharati V.	Pearson Education India.	2 nd	2005
5	Indian Financial System,	Vasant Desai,	Himalaya Publishing House,	5 th	2017

**Generic Elective Course (For Other Departments)
III Semester**

Course Title	Demography						
Course Type	Open Elective Paper	Total Hours	64	Hours/Week	04	Credits	04
Course Code	Evaluation	Internal	C1+C2=15+15		30Marks		100
		External	Duration	C3	03 Hr	70 Marks	
CO No.	Course Objectives (COs)						

On completion of the course the student will be able			
CO-1	To understand the concept and importance of the demography.		
CO-2	To analyse the components of population growth and their interdependence.		
CO-3	To understand the measures of population change and sources of population data.		
CO-4	To provide knowledge about economic and social implications of sex and age structure and demographic dividend.		
Mapping of CLOs with PSOs & CDLs			
CLOs No.	Course Learning Outcomes(CLOs) On completion of the course the student will learn to	PSOs Addressed	CDLs
CLO-1	Understand the importance of the growth, structure and distribution of population.	PSO-5	Understand
CLO-2	Understand the Determinants of Sex and Age Structure.	PSO-5	Evaluate
CLO-3	Analyze the components of population growth and their Inter dependence.	PSO-1	Analyze
CLO-4	Understand the determinants of Sex and Age structure.	PSO-5	Understand
CLO-5	Evaluate the patterns of Sex and Age structure in more Developed and less developed countries.	PSO-2	Evaluate

Course Content		Durtation
Module: 1 Introduction		16Hrs
1.1.	Meaning and Scope of Demography	
1.2.	Components of Population Growth and their Interdependence	
1.3.	Measures of Population Change	
1.4.	Growth, Structure and Distribution	
1.5.	Sources of Population Data.	
Keywords: Understand the importance of the growth, structure and distribution of population.		
Module: II Sex and Age Structure		16Hrs
2.1.	Patterns of Sex and Age Structure in More Developed and Less Developed Countries	
2.2.	Determinants of Sex and Age Structure	
2.3.	Age Structure	
2.4.	Economic and Social Implications of Sex and Age Structure	
2.5.	Demographic Dividend.	
Keywords: Evaluate the patterns of Sex and Age structure in more developed and less developed countries.		
Note: Course content involves 100% of theory		

References:



Sl. No	Title of the book	Author	Publisher	Edition	Year
1	Population Projections and Their Accuracy,	Agarwal U.D.	B.R.Publishers, New Delhi.	2 nd	2005
2	Principles of Population Studies	Bhende A and Kanitkar T.	Himalaya Pub., House, Mumbai	5 th	2010
3	Principles of Demography	Bogue D.J.	John Wiley New York.		2001
4	Fundamentals of Demography	Hans Raj	Surjeet Publications, Delhi.		1999
5	An Introduction to Study of Population,	Misra B.D.	South Asian Publishers, NewDelhi.	4 th	2014

III SEMESTER

Course Title		ENVIRONMENTAL ECONOMICS					
Course Type	Open Elective Paper	Total Hours	32	Hours/Week	04	Credits	04
Course Code	Evaluation	Internal	C1+C2=15+15			20 Marks	
		External	Duration	C3	03 Hr	30 Marks	
CO No.	Course Objectives (COs)						
	On completion of the course the student will be able to						
CO-1	Understand the concept and importance of the study of environmental economics.						
CO-2	Analyse the environmental pollution and types of pollution						
CO-3	Understand the environmental accounting and various approaches to environmental accounting.						
CO-4	Provide knowledge about global environmental policy and international action for environmental protection.						
Mapping of CLOs with PSOs & CDLs							
CLOs No.	Course Learning Outcomes(CLOs)			PSOs Addressed		CDLs	
	On completion of the course the student will learn to						
CLO-1	Understand the importance of the study of Environmental Economics			PSO-5		Understand	
CLO-2	Understand the Impact of population growth on Environment.			PSO-5		Evaluate	
CLO-3	Analyze the Green accounting & Green Economics.			PSO-1		Analyze	
CLO-4	Understand the Concept of Environmental Accounting.			PSO-5		Understand	
CLO-5	Evaluate the environmental policy in India and global Environmental policy.			PSO-2		Evaluate	

Course Content		Duration
Module: 1 Introduction to Environmental Economics		16Hrs
1.1.	Environmental Economics its nature & scope	
1.2.	Importance of the study of Environmental Economics	
1.3.	Sustainable development Concept & strategies to achieve sustainable development	
1.4.	Environment & Economic development – Kuznets Environmental curve	
	Material balanced principle-(Entropy law) – Environmental stress – Externalities.	
Keywords: Understand the Impact of population growth on Environment.		
Module: II Environmental Pollution		16Hrs
2.1.	Concept of Environmental pollution	
2.2.	Impact of population growth on Environment with reference to output growth and environment	
2.3.	Types of pollution Air, Water, Noise, Chemical, thermal and degradation of land& habitant – causes & consequences - climate change & Global warming.	
Keywords: Evaluate the environmental policy in India and global environmental policy.		
Note: Course content involves 100% of theory.		

References:

Sl. No	Title of the book	Author	Publisher	Edition	Year
1	Environmental Economics,	Kolstad- Charles	Oxford University press	2 nd	2001
2	Environmental Protection Challenges & Issues	Mahajan V.S, Deep & Deep	New Delhi		
3	Environmental Economics. In theory & practice publication	Nick, Hantey, Manasa	New Delhi		2003
4	Environmental Economics,	Rabindra N Bhattacharya	Oxford University press	5 th	2014
5	Environmental Economics Readers in Economics	Shankar U	Oxford University press		2008
6	United Nations Accounting & Valuation of Environment Vol I & II A premier for Developing countries		ESCAP		

Blue Print of the Question Paper for I-IV Semesters

St. Philomena's College (Autonomous), Mysore

M.A. Economics

Time: 3 Hours

Max Marks: 70

PART-A

1		Answer any FIVE of the following:	5x2=10
	a		
	b		
	c		
	d		
	e		
	f		
	g		
	h		

PART-B

		Answer any SIX of the following:	6x5=30
2			
3			
4			
5			
6			
7			
8			
9			

PART- C

		Answer any THREE of the following:	3x10=30
10			
11			
12			
13			
14			
