

# **Regulations and Syllabi**

**for**

## **Master of Arts in Economics**

offered from the  
Academic Year 2021 - 2022 under  
Choice Based Credit System

**Department of Economics  
School of Management Studies  
The Gandhigram Rural Institute  
(Deemed to be University)  
Gandhigram - 624 302  
Dindigul District, Tamil Nadu**

## 1. NATURE OF THE PROGRAMME

This Post Graduate Programme is designed with an optimal combination of pure and applied courses in Economics which is offered as M.A., Degree Programme by the Department of Economics, under the School of Management Studies, the Gandhigram Rural Institute - (Deemed to be University), Gandhigram.

## 2. ELIGIBILITY FOR ADMISSION

Any degree from a recognized Institution. Preference will be given to students who did B.A.,(Economics), B.B.E. (Business Economics),B.Sc. (Mathematics), B.Sc. (Statistics) and B.Sc. (Hons in Economics).

## 3. OBJECTIVES OF THE PROGRAMME

The Programme is designed to train and enable the students to acquire the necessary skills in different facets of economics. The specific objectives are to enable the students:

- ✓ To understand the concepts and theories in various branches of economics;
- ✓ To give focus on various dimensions and sectoral developments of economy in theory and practice;
- ✓ To expose to the national and international economic scenarios;
- ✓ To familiarize with the real economic issues and problems;
- ✓ To build confidence and develop necessary skills to address economic issues and challenges;
- ✓ To imbibe continuous Research and Development skills and Win-Win strategies on economic development; and
- ✓ To get trained for Indian Economic Service (IES), UGC JRF / NET and SET Examinations.

### Programme Outcome (PO)

- ✓ Becoming knowledgeable in the subject of economics and applying the principles of economics to the needs of the Employers / Institutions /Enterprises/ Society / Communities;
- ✓ Gaining analytical skills in the field/area of Economics;
- ✓ Understanding and appreciating professional ethics, community living and nation building initiatives;
- ✓ Identifying complex economic issues and offering solutions to them;
- ✓ Predicting and synthesizing economic events;
- ✓ Formulating appropriate development policies; and
- ✓ Creating professional manpower to steer the economy.

### Programme Specific Outcome (PSO)

- ✓ Applying the knowledge of theories and concepts in the domain of economics.
- ✓ Solving the complex problems in the field of economics with an understanding of the societal, legal and cultural impacts of the solution
- ✓ Identifying and analyzing issues of economy.
- ✓ Preparing blue print for development of various economic aspects.

## 4. STUDENTS INTAKE

Number of students to be admitted for M.A. Economics Programme is 20.

## 5. CURRICULUM DESIGN (ALLOCATION OF COURSES, CREDITS AND MARKS)

The M.A. Economics Programme shall consist of two academic years with four semesters. This Programme is offered under CBCS pattern and it consists of Core Courses, Allied and Elective (Discipline Centric and Generic)Courses.

**CURRICULUM DESIGN - M.A., ECONOMICS PROGRAMME**  
(Offered from the Academic Year 2021-22 under the CBCS)

Semester	Category	Sl. No	Course Code	Course Title	No. of Credits	Hours / Week	Duration of ESE (Hours)	Evaluation		Total Marks	
								CFA	ESE		
I	Major	1	21ECOP0101	Microeconomic Analysis - I	4	4	3	40	60	100	
		2	21ECOP0102	Macroeconomic Analysis - I	4	4	3	40	60	100	
		3	21ECOP0103	Monetary Economics	4	4	3	40	60	100	
		4	21ECOP0104	Agricultural Economics	3	3	3	40	60	100	
		5	21ECOP0105	Statistics	4	4	3	40	60	100	
		6	21ECOP0106	Financial Institutions and Markets	3	3	3	40	60	100	
				21ENGP00C1*	Communication / Soft Skills	2	2	-	50	-	50
<b>Total (I)</b>					<b>24</b>	<b>24</b>		<b>290</b>	<b>360</b>	<b>650</b>	
II	Major	7	21ECOP0207	Microeconomic Analysis - II	4	4	3	40	60	100	
		8	21ECOP0208	Macroeconomic Analysis - II	4	4	3	40	60	100	
		9	21ECOP0209	International Trade and Finance	4	4	3	40	60	100	
		10	21ECOP0210	Public Economics	4	4	3	40	60	100	
		11	21ECOP0211	Quantitative Techniques in Economics	4	4	3	40	60	100	
		Electives-Generic* (Choose any one)		21ECOP02GX	Course offered by other Departments**	3	3	3	40	60	100
			21GTPP0001*	Gandhi in Everyday Life	2	2	-	50	-	50	
<b>Total (II)</b>					<b>25</b>	<b>25</b>		<b>290</b>	<b>360</b>	<b>650</b>	
III	Major	12	21ECOP0312	Economics of Growth and Development	4	4	3	40	60	100	
		13	21ECOP0313	Econometrics	4	4	3	40	60	100	
		14	21ECOP0314	Research Methodology	4	4	3	40	60	100	
		15	21ECOP0315	Computer Application in Economics	4	4	3	40	60	100	
	Elective-Discipline Centric (Choose any one)*			21ECOP03D1	Project Planning and Evaluation	3	3	3	40	60	100
				21ECOP03D2	Tamil Nadu Economy						
				21ECOP03D3	Globalization and WTO: Issues and Strategies						
		Modular Course		21ECOP03MX	Choose any one / MOOC	2	2	-	50	0	50
	VPP		21EXNP03V1	Village Placement Programme	2	-	-	50	0	50	
<b>Total (III)</b>					<b>23</b>	<b>21</b>	<b>-</b>	<b>300</b>	<b>300</b>	<b>600</b>	
IV	Major	16	21ECOP0416	Environmental Economics	3	3	3	40	60	100	
		17	21ECOP0417	Gandhian Economics	3	3	3	40	60	100	
		18	21ECOP0418	Indian Economic Policy	4	4	3	40	60	100	
		Modular Course		21ECOP04MX	Choose any one / MOOC	2	2	-	50	0	50
				21GTPP00H1	Human Value and Professional Ethics	2	2	-	50	-	50
			19	21ECOP0419	Internship	4	4	3	-	-	-
		20	21ECOP0420	Dissertation***	6	6	-	75	75+50	200	
<b>Total (IV)</b>					<b>24</b>	<b>24</b>	<b>-</b>	<b>295</b>	<b>305</b>	<b>600</b>	
<b>Grand Total (I+II+III+IV)</b>					<b>96</b>	<b>94</b>		<b>1175</b>	<b>1325</b>	<b>2500</b>	

\* Offered by other departments

\*\*This Department offers Generic Elective Courses for other department students

\*\*\* The evaluation criteria for Dissertation will be: 75 marks for external evaluation, 75 marks for internal evaluation and 50 marks for joint viva-voce examination.

**Internship:** The Student would be placed in an organization/ institution/ department for 15 days during summer so as to gain practical exposure to various economic issues. Based on performance and internship report, the students would be evaluated and awarded marks by the supervisor/ mentor concerned (purely internal).

**Dissertation:** The student is expected to conduct a research study in Economics and to submit dissertation under the guidance of supervisor / mentor concerned. Marks for dissertation is 200, out of which 150 marks pertain to evaluation of dissertation (Internal examiner: 75 marks and external examiner: 75 marks) and 50 marks pertain to viva voce jointly awarded by internal and external examiners.

**Elective- Discipline Centric 21ECOP03DX (Choose any one)**

1. 21ECOP03D1 - Project Planning and Evaluation
2. 21ECOP03D2 - Tamil Nadu Economy
3. 21ECOP03D3 - Globalization and WTO: Issues and Strategies

**Electives - Generic - 21ECOP02GX - (PG Programme) offered by the Department of Economics other than Economics Students**

1. 21ECOP02G1 - Indian Economy
2. 21ECOP02G2 - Globalization and WTO: Issues and Strategies
3. 21ECOP02G3 - Entrepreneurship
4. 21ECOP02G4 - Growth and Development
5. 21ECOP02G5 - Agricultural Economics
6. 21ECOP02G6 - Energy Economics

**The Department of Economics offers the following Allied Courses to other Departments**

**Department of Political Science and Development Administration (PG Programme - M.A 5 Yr. Int. Dev.)**

1. 21ECO102A1 - Elements of Economics
2. 21ECO103A2-Indian Economy

**Department of Rural Development (PG Programme - M.A., (Rural Development Studies)**

1. 21ECOP01A1 - Agricultural Economics
2. 21ECOP02A2-Indian Economy

**Centre for Rural Energy (PG Programme - M.Tech., - Renewable Energy)**

1. 21ECOP02A1/21REEP02E1 - Energy Economics and Renewable Energy Policies

**Department of Co-operation (PG Programme)**

1. 21ECOP01A1 - Managerial Economics

**Department of Sociology (PG Programme-M.A., 5 Yr Integrated)**

1. 21ECO102A1 - Indian Economy

**Modular Course 21ECOP03MX (Choose any one)-III Semester**

1. 21ECOP03M1 - Human Development Index and its Applications
2. 21ECOP03M2 - Budget Analysis
3. 21ECOP03M3 - Participatory Rural Appraisal

**Modular Course 21ECOP04MX (Choose any one)-IV Semester**

1. 21ECOP04M1 -Rural Resource Mapping
2. 21ECOP04M2 - Environmental Impact Assessment
3. 21ECOP04M3 - Rural Energy Assessment

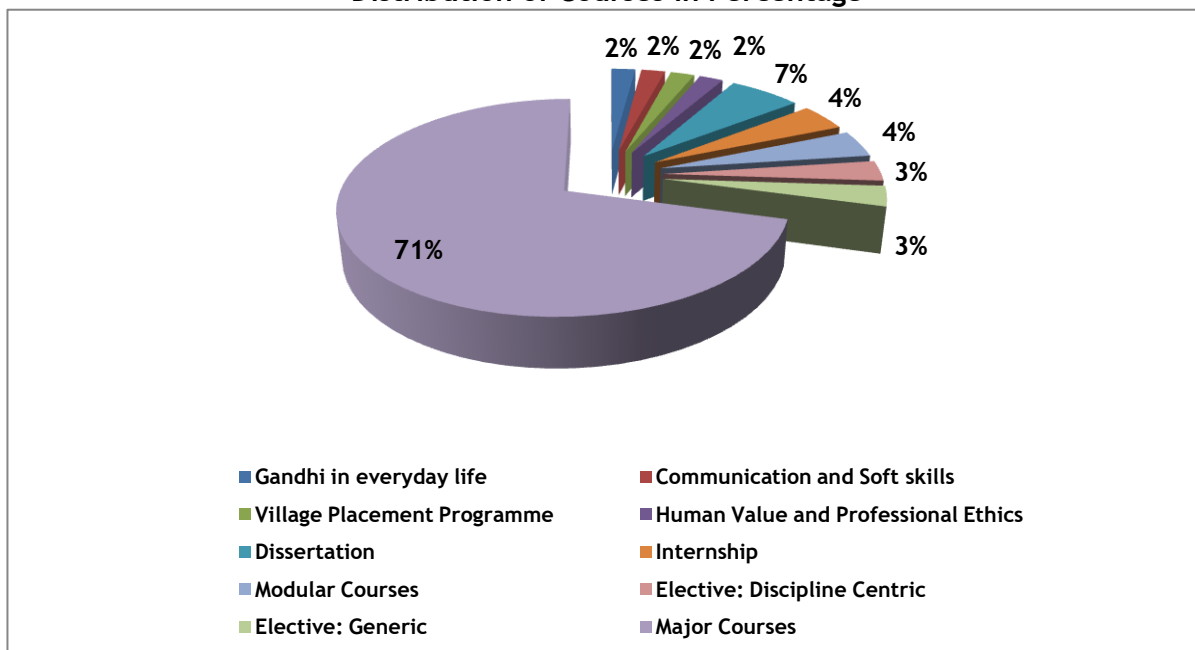
**Value Added Course (II Semester and III Semester)**

1. 21ECOP0VA1 - Participatory Learning Methods.
2. 21ECOP0VA2- Use and Abuse of Resources.
3. 21ECOP0VA3- Development and Social Dynamism.

**Abstract**

Sl. No.	Courses	No. of Papers	No. of Credits	Percentage
1	Gandhi in everyday life	1	2	2.08
2	Communication and Soft skills	1	2	2.08
3	Village Placement Programme	1	2	2.08
4	Human Value and Professional Ethics	1	2	2.08
5	Dissertation	1	6	6.25
6	Internship	1	4	4.16
7	Modular Courses	2	4	4.16
8	Elective: Discipline Centric	1	3	3.12
9	Elective: Generic	1	3	3.12
10	Major Courses	18	68	70.83
<b>Total</b>		<b>28</b>	<b>96</b>	<b>100</b>

**Distribution of Courses in Percentage**



## MICROECONOMIC ANALYSIS - I

Semester : I  
Course Code : 21ECOP0101

No. of Credits: 4  
No. of Hours: 64

### Objectives

- To provide for a theoretical background of the study of Microeconomics the Theory of Value, production and firm to the students.
- To give exposure to the advancements in the study of Value, production and firm.

### Specific Course Objectives of Learning

- To gain clarity in with conceptual and theoretical framework in microeconomics.
- To discuss about divisions and components of microeconomics.
- To apply microeconomics concepts for solving macroeconomic problems.
- To utilize theories in economics for improving the welfare of the society.
- To prepare the learners as micro planers and micro enterprises as well.

### Specific Course Outcomes

- Recognizing the behaviour of various economic actors.
- Examining critically the application of theory and the microeconomic events taking place around us.
- Applying techniques and tools of microeconomics in real life situations.
- Evaluating gross root level markets and market structure for effective understanding of market techniques.
- Implementing the micro level planning.

### UNIT - I THEORY OF DEMAND (14 hrs)

Cardinal Utility Theory - Ordinal Utility Theory - Revealed Preference Theory - Market Demand - Determinants of market demand function - Elasticity of demand - Applications of Indifference Curve Analysis - Engle Curve analysis - Engle Curve and Income elasticity of demand - Statistical Demand curve - Demand Revenue relationships.

### UNIT - II RECENT DEVELOPMENTS IN THE THEORY OF DEMAND (12 hrs)

Revision of Demand theorem - Linear Expenditure System - Constants Elasticity Demand Function - Dynamic Demand Function - Lag models - Probabilistic Theory of Demand Neumann - Morgenstern Hypothesis, Friedman - Savage Hypothesis.

### UNIT - III THEORY OF PRODUCTION (14 hrs)

Production function for single product - Laws of production - Technological progress and Production function - Equilibrium of firm - Isoquants - Expansion path - Optimal Combination of factors of production - Derivation of cost functions from Production function - Production Possibility Curve.

### UNIT - IV COST FUNCTIONS (12 hrs)

Traditional theory of Costs - Modern Theory of costs - Engineering cost Curve - Economics of scale - Empirical Cost Curves - Derivation of supply function from cost function - Cost Elasticity - Revenue Functions - relevance of cost curves in production decisions.

### UNIT - V THEORY OF FIRM (12 hrs)

Equilibrium of the firm and industry - Perfect Competition - Equilibrium of firm and industry under Perfect Competition - Applications - Monopoly - equilibrium of the Monopolists - Bilateral Monopoly - price determination - Effects of monopolistic competition - Product differentiation - Equilibrium under Monopolistic market - Analysis on Selling Cost.

### Text Books

- Ahuja, H.L (2014) 'Advanced Micro Economic Theory', Sultan Chand & Co., Delhi.
- Jhingan M.L., (2014) 'Advanced Economic Theory', Allied, Madras.
- Mishan E.J., (1969) 'Welfare Economics: An Assessment', North Holland, Amsterdam.

### References

- Baumol, W.J. (1982) 'Economic Theory and Operations Analysis', Prentice Hall of India, Delhi.
- Ferguson C.E., (1972) 'Principles of Economics', Oxford & IBH, Calcutta.
- Gravelle H and Rees R (2004) 'Micro Economics', Pearson Education, Delhi.
- Henderson, J.M. and Quandt (1980) 'Micro Economic Theory: A Mathematical Approach', McGraw Hill, Delhi.
- Koutsoyiannis, A (1979) 'Modern Microeconomics', Macmillan Press, London.
- Salvatore, Dominic (2012) 'Micro Economic Theory', Tata McGraw Hill, Delhi.
- Gregory Mankiv (2016) 'Principles of Microeconomics, CBS Publishers, Delhi.
- Sen, A.(1999) 'Microeconomics : Theory and Application', Oxford University Press, Delhi.

Outcomes	PSO1	PSO2	PSO3	PSO4
CO1	2	2	2	2
CO2	3	2	3	2
CO3	3	3	3	2
CO4	2	3	3	2
CO5	2	3	3	2

## MACROECONOMIC ANALYSIS - I

Semester : I  
Course Code : 21ECOP0102

No. of Credits: 4  
No. of Hours: 64

### Objective

To make the students understand the basic macroeconomics concepts and theories for economic growth.

### Specific Course Objective of Learning

1. To understand the basic concepts of national income.
2. To know about the theories of income and employment.
3. To learn the theories of consumption.
4. To study the theoretical knowledge of investment for economy.
5. To gain the knowledge of inflation.

### Specific Course Outcomes

1. Evaluating the accounting of national income for economy.
2. Examining the generation of income and employment of economy growth.
3. Assimilating the consumption for economic growth in a nation.
4. Efficiently using the investment for economic growth.
5. Identifying the inflation problem and control mechanism.

### UNIT - I: NATIONAL INCOME

(14 Hrs)

Definition - Distinction between Microeconomics and Macroeconomics - Nature - Importance - Limitations - Circular Flow of Income - Concepts and Measurements of National Income - National Income Accounting: Social Accounting - Input-Output Accounting.

### UNIT - II: CLASSICAL AND KEYNESIAN THEORY OF EMPLOYMENT AND INCOME

(14 Hrs)

Concept and Types of Unemployment - Full Employment - Classical Theory of Employment: Assumptions - Say's Law of Markets - Wage-Price Flexibility - Classical Theory of Employment and Income - Keynes's Criticism of Classical Theory - Keynesian Theory of Employment: Aggregate Demand and Aggregate Supply - Effective Demand.

### UNIT - III: CONSUMPTION FUNCTION

(14 Hrs)

Meaning - Properties - Keynes's Psychological Law of Consumption - Determinants - Importance - Theories of Consumption: Absolute Income Hypothesis - Relative Income Hypothesis - Permanent Income Hypothesis - Life Cycle Hypothesis - Saving Function.

### UNIT - IV: INVESTMENT FUNCTION

(12 Hrs)

Investment Function: Meaning - Types - Determinants - Marginal Efficiency of Capital - Multiplier: Meaning - Derivation - Assumptions - Working - Leakage - Importance - Criticism - Principle of Acceleration - Super Multiplier.

### UNIT - V: INFLATION

(10 Hrs)

Meaning - Inflationary Gap - Types - Demand-Pull and Cost-Push Inflation - Causes - Measures to Control Inflation - Phillips Curve - Deflation - Stagflation - Rational Expectations Hypothesis.

### Text Books

1. David Romer (1996), Advanced Macroeconomics, McGraw-Hill, New Delhi.
2. Dwivedi D.N. (2010), 'Macro Economics: Theory and Policy', Tata McGraw Hill, Delhi.
3. Gregory Mankiw (2016), 'Macroeconomics', CBS Publishers, Delhi.
4. Richard T. Froyen (2013), 'Macroeconomics: Theories and Policies, Pearson Education, New Delhi.

### References

1. Abel A.B and Bernanke B.S., (2001), 'Macroeconomics', Pearson Education, Delhi.
2. Ackley G. (1978), 'Macroeconomics: Theory and Policy', Macmillan, New York.
3. Branson W.A. (1989), 'Macroeconomic Theory and Policy', Harper and Row, New York.
4. Dornbusch, Fischer and Startz (2010), 'Macroeconomics', McGraw Hill, New Delhi.
5. Olivier Blanchard (2009), 'Macroeconomics', Pearson Education, Inc, New Delhi.

Outcomes	PSO1	PSO2	PSO3	PSO4
CO1	3	3	3	2
CO2	3	2	3	2
CO3	3	3	3	2
CO4	3	3	3	2
CO5	3	2	2	2

## MONETARY ECONOMICS

Semester : I  
Course Code : 21ECOP0103

No. of Credits: 4  
No. of Hours: 64

### Objective

- To make the students understand the theories and analyse issues of monetary economics.

### Specific Course Objectives of learning

- To understand the working of money in economy.
- To gain clarity in the monetary theories and ability to critically evaluate and skills in analyzing the monetary issues in the Indian context.
- To receive exposure to various financial market institutions.
- To become sensitized to the issues of monetary policy of the Central Bank.

### Specific Course Outcomes

- Evaluating the theories of monetary economics.
- Analyzing the relation between monetary forces and real forces.
- Understanding the working of monetary institutions in India.
- Recognizing and analyzing issues in monetary policy

### UNIT - I: MONEY AND ITS NATURE

(12 hrs)

Definitions of Money - role of money in an economy - Circular flow of money - Concepts of money: RBI concepts, Measures of Money Supply - High powered money - Inflation - Price policy in a developing economy.

### UNIT - II: THEORIES OF MONEY

(12 hrs)

Transaction approach - Cambridge Cash balance approach - Keynesian theory of money and prices - Modern quantity theory - Patinkins' integration of Monetary and Value theory - Neutrality of money.

### UNIT - III: FINANCIAL MARKETS AND INTERMEDIARIES

(12 hrs)

Money Market: Role, constituents and functions - Capital market: Role, constituents and functions . Commercial Banks, Co-operatives, RRBs, and their functions - Non-Banking Financial institutions.

### UNIT - IV: DEMAND FOR MONEY AND THEORIES OF INTEREST RATES

(16 hrs)

Classical and Keynes version -Tobin's model -Boumol's Approach. Theories of interest rates - Classical, Neo - Classical, Keynesian theory - Wicksell's theory - Structure of Interest Rates in India.

### UNIT - V: MONETARY POLICY

(12 hrs)

Target and Indicators, instruments and types - Rules Vs Discretion - Trade off in monetary goals - Time lags in monetary policy - Roles and functions of the Central banks (RBI) -Objectives and limitations of monetary policy in India.

### Text Books

- Carl. E. Walsh (1998) 'Monetary Theory and Policy', MIT Press, Cambridge.
- Pierce, David, G., and Shaw, David .M (1974) 'Monetary Economics: Theories, Evidence and Policy', Butterworths, London.
- Sundharam K.P.M (2005) 'Money Banking and International Trade', Sulthan& Chand, Delhi.
- Wrightsmann, Dwayne (1971) 'An Introduction to Monetary Theory and Policy', The Free Press, New York.

### References

- Gibson, Williamson E and Kaufman, George G (1971) 'Monetary Economics: Readings on Current Issues', TATA McGraw Hill, Delhi.
- Johnson, H.G. (1972) 'Further Essays in Monetary Economics', George Allen and Unwin, London.
- Laidler, D.E.W. (1977) 'Demand for Money: Theory and Evidence', Dum Don Valley, New York.
- Narendra Jadhav (1993) 'Monetary Economics for India', Macmillan, Madras.
- Reddy, Y.V. (2000) 'A Review of Monetary and Financial Sector Reforms in India - A Central Banker's Perspective', UBSPD, Delhi.
- Venugopal Reddy, Y. (2000) 'Monetary and Financial Sector Reforms in India', UBS PD, Chennai.

Outcomes	PSO1	PSO2	PSO3	PSO4
CO1	3	2	3	2
CO2	3	3	3	2
CO3	2	2	3	2
CO4	3	3	3	2



## AGRICULTURAL ECONOMICS

Semester : I  
Course Code : 21ECOP0104

No. of Credits: 3  
No. of Hours: 48

### Objective

- To obtain a thorough knowledge of and analytical skills of issues in agricultural economics, particularly in the Indian context.

### Specific Course Objectives of Learning

- To provide the students a detailed treatment of issues in agricultural economics particularly in Indian.

### Specific Course Outcomes

Students would have a clear and apparatus.

- Recognizing problems in Indian agriculture
- Examining the issues in Indian agriculture.
- Planning for agricultural development.

### UNIT - I: INTRODUCTION TO AGRICULTURAL ECONOMICS (10 hrs)

Agricultural Economics: Definition, Nature and Scope - Traditional Agriculture and Modernization: Sustainable Agriculture and Organic Farming - Agriculture and Economic Development - Land, Labour and Capital in Agriculture.

### UNIT - II: COPPING AND DIVERSIFICATION OF AGRICULTURE (10 hrs)

Crop Planning - Cropping Intensity, Cropping Pattern and Influencing Factors - Problems of Indian agriculture. Diversification -Avenues of Diversification in India: - Dairy, Poultry, Fishery, Sericulture and Horticulture - Form Budgeting.

### UNIT - III: AGRICULTURAL INPUTS, PRODUCTION AND PRODUCTIVITY (9 hrs)

Land Utilization Pattern - Land Holdings - Sub-division and Fragmentation - Tenancy - Land Reform Measures. Irrigation: Types - Water Management Technologies - Mechanization of Agriculture and its impact- Production Function Analysis in Agriculture.

### UNIT - IV: AGRICULTURAL FINANCE (9 hrs)

Need for Agricultural Finance - Non-institutional Sources of Agricultural Finance - Institutional Sources of Agricultural Finance: Cooperative Institutions, Commercial Banks, NABARD, RRBs - Problems in institutional credit for agriculture.

### UNIT - V: AGRICULTURAL MARKETING (10 hrs)

Agricultural Marketing: Meaning- Classifications of Agricultural Markets -Marketable Surplus and Marketed Surplus -Food Processing - Defects of Agricultural Marketing and improvement- Fluctuations in Agricultural Price: Causes and Impacts -Agricultural Price Policy - Agricultural Subsidies - Crop insurance.

### Text Books

- Bilgrami, S.A.R. (1996) **Agricultural Economics**, Himalayas Publishing House, Delhi.
- Kahion, A.S. and Tyagi D.D. (1983) **Agriculture Price Policy in India**, Allied Publishers, Delhi.
- Sadhu and Singh (2013) **Fundamentals of Agricultural Economics**, Himalaya, Delhi.

### References

- Dantwala, M.L. et al., (1991) **Indian Agricultural Development since Independence**, Oxford & IBH, Delhi.
- GauravDatt and AshwaniMaharaj C (2014), Datt and Sundaram's **IndianEconomy**, S.Chand& Co., Delhi.
- Government of India, **Economic Survey**, various Years, Mistry of Fnanace, New Delhi.
- Gulati, A. and T.Kelly (1999) **Trade Liberalization and Indian Agriculture**, Oxford University Press, Delhi.
- Rao, C.H. Hanumanth (1975) **Agricultural Growth, Rural Poverty and Environmental Degradation in India**, Oxford University Press, Delhi.

Outcomes	PSO1	PSO2	PSO3	PSO4
CO1	3	3	3	2
CO2	3	3	3	2
CO3	3	3	2	3

## STATISTICS

Semester : I  
Course Code : 21ECOP0105

No. of Credits: 4  
No. of Hours: 64

### Objective

- To make the students understand the different statistical methods for economic decision making.

### Specific Course Objectives of Learning

- To study the basics of statistics.
- To understand the concepts and measurements of Statistics.
- To gain understanding on various theoretical distributions, estimation and testing of hypothesis
- To gain skills in Operating SPSS.

### Specific Course Outcome

- Demonstrating the knowledge of sampling design.
- Understating the uses of probability theory.
- Handling statistical data effectively in making decisions.
- Applying the statistics tools in the solution of economic problems.

### UNIT - I: INTRODUCTION AND SAMPLING TECHNIQUES

(10 hrs)

Sampling: Definitions - Advantages and Limitations; Techniques of Sampling-Random and Non-Random Sampling Techniques, Merits and Demerits; Sampling and Non-sampling errors, Determination of Sample size and judging the reliability of the sample

### UNIT - II: CORRELATION AND REGRESSION

(14 hrs)

Measures of relationship between variables: Correlation-Concept, Definition, Types, Methods of correlation and uses; Casual Analysis: Regression-concept, Definition; Regression equations - Properties of Regression Coefficients and Uses.

### UNIT - III: PROBABILITY AND THEORETICAL DISTRIBUTION

(14 hrs)

Concepts and Importance of Probability - Calculation of Probability - Theorems of Probability; Additional and Multiplication Theorems - Conditional Probability - Bayes' Theorem - Mathematical Expectation - Random Variables and Probability Distribution. Definition - Types of Theoretical Distribution; Binomial Distribution-Poisson distribution - Normal Distribution.

### UNIT - IV: ESTIMATION AND HYPOTHESIS TESTING

(12 hrs)

Meaning of Estimation- Types of Estimation - Concept of Estimator - Properties of a good Estimator - Standard Error - Testing of Hypothesis - Null Hypothesis and Alternative Hypothesis - Level of Significance and Confidence Coefficient - Critical region - Types of Error in Hypothesis testing - Two-tailed and One-tailed Tests of Hypothesis - Large Samples and Small Samples - t Test - Z Test - Chi - Square Test - F Test - Analysis of Variance.

### UNIT - V: FORMATTING AND ANALYSIS OF DATA WITH SPSS

(14 hrs)

Introduction to Microsoft Excel: Creation of Worksheets, Data Entry, Formatting, Recording, Editing and Documents, Introduction to SPSS; Creation of Data Files, Assigning names and Labels to variables, Import / Export of files, Computing variables, Data analysis; Descriptive Statistics, Computing Means, Correlation and Regression analyses, Chi-Square, and ANOVA.

### Text Books

- Gupta C B & Vijay Gupta (2004) 'An Introduction to Statistical Methods', Vikas Publishing, Delhi.
- Gupta, S.P. (2018) 'Statistical Methods', Sultan Chand & Sons, Delhi.
- Pillai, R.S. N. & Bagawathi (2018) 'Statistics', S.Chand & Co., Delhi.
- Rajaraman. V. (2009) 'Fundamentals of Computers', TMH Publication, Delhi.
- Sancheti and Kapoor (2013) 'Statistics', Sultan Chand & Sons, Delhi.

### References

- Agarwal Y.P. (1988) 'Statistical Methods', Concepts, Applications and Computations, Sterling Publishers, Delhi.
- Allen Webster (1998) 'Applied Statistics for Business and Economics', McGraw-Hill International Edition, Delhi.
- Asthana and Braj Bhushan (2007) 'Statistics for Social Sciences (with SPSS applications)', Prentice Hall India learning Private Limited, New Delhi.
- Damodar N. Gujarati (2009) 'Elementary of Econometrics', Mcgraw Hill Education, New York.
- Gupta S.C. (2016) 'Fundamental Statistics', Himalaya Publishing House Pvt. Ltd, Delhi.
- Ken Black (2012) 'Business statistics', John Wiley, New York.
- Nagar A.L. and R.K. Das (2006) 'Basic Statistics', Oxford University Press, Delhi.
- Sabine Landu and Brain S. Everitt (2004) 'A Hand Book of Statistical Analysis Using SPSS', Chapman & Hall/CRC Press, New York.

Outcomes	PSO1	PSO2	PSO3	PSO4
CO1	3	3	2	3
CO2	3	3	2	3
CO3	3	3	2	3
CO4	3	3	2	3

## FINANCIAL INSTITUTIONS AND MARKETS

Semester : I  
Course Code : 21ECOP0106

No. of Credits: 3  
No. of Hours: 48

### Objectives

1. To impart the structure of financial system and markets to the students.

### Specific Course Objective of Learning

1. To understand financial Institutions and markets.
2. To examine the functions of non-banking financial intermediaries.
3. To analyze the working of development and specialized banks.
4. To understand the functions and management of financial markets.
5. To comprehend role and functions of international financial markets.

### Specific Course Outcomes

1. Appraising the role of financial institutions and markets in the context of Globalization.
2. Assessing financial sector reforms in India.
3. Evaluating the growth performance of financial markets.
4. Explaining nexus of international financial markets, and development.

### UNIT - I: Nature and Role of Financial System

(12 hrs)

Money and Finance - Financial Intermediation and Financial Intermediaries - The Structure of the Financial System- Functions of the Financial Sector - Financial System and Economic Development - Risk and Financial Assets, Types of Risk, Return on Assets, Risk- Return Trade off.

### UNIT -II : Non - banking Financial Intermediaries

(8 hrs)

Definition and Types of Non - Bank Financial Institutions: Their Growth and Impact on India's Economic Development - Measures Taken to Control their Operations.

### UNIT - III :Development and Specialized

(8 hrs)

Development Banks - IFCIs, IDBI, NHB, SIDBI, EXIM, NABARD. Role and Functions of Investment Banking and Merchant Banking.

### UNIT - IV: Financial Markets

(8 hrs)

Role and Structure of Money Market and Capital Market - Markets for Derivatives: Futures and Options, and other Derivatives:Types - Uses and Pricing of Derivatives - Primary and Secondary Market for Securities; SEBI: its role in Capital Market in India; IRDA and its Role.

### UNIT - V: International Financial Markets

(12 hrs)

Organization and Participants - Exchange Rates - Devaluation and Depreciation - International Financial Flows,-Reforms in International Monetary System for Developing Countries - Lending Operation of World Bank and its Affiliates - Working of IDA and IFC. Asian Development Bank and its Lending Activities; Euro - Dollar and Euro- Currency Markets: their Developmental Role and Regulation at the International Level.

### Text Books

1. Bhole, L.M.(1999), Financial Institutions and Markets, Tata McGraw Hill Company Ltd., New Delhi.
2. Bhole .L.M.(2000), Indian Financial System, Chugh Publications, Allahabad

### References

1. Edminster, R.O.(1986), Financial Institutions, Markets and Management, McGraw Hill, New Delhi
2. Goldsmith, R.W.(1969), Financial Structure and Development, Yale, London
3. . Hanson, J.A. and S.Karthuria (Eds.)(1999), India: A Financial Sector for the Twenty - First Century, Oxford University Press, New Delhi

Outcomes	PSO1	PSO2	PSO3	PSO4
CO1	2	3	2	2
CO2	3	3	3	2
CO3	3	2	3	2
CO4	3	2	2	1

## MICROECONOMIC ANALYSIS - II

Semester : II  
Course Code : 21ECOP0207

No. of Credits: 4  
No. of Hours: 64

### Objective

1. To facilitate the students at post graduate level so as to understand the recent advancements in the Theories of market, firm and Distribution and their likely impact on Decision Process.
2. To provide for a comprehensive analytical frame as advanced in Economics literature.

### Course Objective

1. To gain clarity in conceptual and theoretical framework in microeconomics.
2. To discuss about divisions and components of microeconomics.
3. To apply microeconomics concepts for solving macroeconomic problems.
4. To utilize theories in economics for improving the welfare of the society.
5. To prepare the learners as micro planers and micro enterprises as well.

### Specific Course Outcomes

1. Recognizing the behaviour of various economic actors.
2. Examining critically the application of theory and the microeconomic events takes place around us.
3. Applying techniques and tools of micro economics in real life situations.
4. Evaluating gross root level markets and market structure for effective understanding of market techniques.
5. Implementing Microeconomic principles in the field.

### UNIT - I: OLIGOPOLY (14 hrs)

Pricing under Oligopoly - non - Collusive models - Cournot - Bertrand - Chamberlin - Stackleberg - The kinked Demand- Collusive Models: Cartels - Price leadership - Barometric Price leadership.

### UNIT - II: RECENT DEVELOPMENT IN THEORIES OF FIRM (12 Hrs)

Average Cost Pricing model - Mark - up rule - Bain's Limit Pricing - Baumol's Sales Maximization model - Marris's Model - Williamson model and Model of Cyert and March.

### UNIT - III: FACTOR PRICING (12 hrs)

Factors pricing under perfectly competitive market situations - Factor Pricing under imperfect competition - Elasticity of factor substitution - Technological progress and income distribution - Adding - up problem; Euler's Theorem - Clark - Wicksteed - Walras Product Exhaustion theorem.

### UNIT - IV: GENERAL EQUILIBRIUM THEORY (12 hrs)

Interdependence in the economy - the Walrasian system - Graphical treatment of Two sector: Two commodity. Two consumer, model - Equilibrium of production and consumption, Simultaneous equilibrium of production and consumption - General equilibrium and resource allocation.

### UNIT - V: WELFARE ECONOMICS (14 hrs)

Criteria of Social Welfare - Bentham and Cardinalist criteria - Pareto Optimality rule - Kaldor - Hicks compensation criterion - Bergson's social welfare function - Maximization of social welfare - Derivation of grand utility Frontier Line - Welfare maximization and perfect competition - Theory of Social Justice.

### Text Books

1. Ahuja, H.L (2014) 'Advanced Micro Economic Theory', Sultan Chand & Co., Delhi.
2. Jhingan M.L., (2014) 'Advanced Economic Theory', Allied, Madras.
3. Mishan E.J., (1969) 'Welfare Economics: An Assessment', North Holland, Amsterdam.

### References

1. Baumol, W.J. (1982) 'Economic Theory and Operations Analysis', Prentice Hall of India, Delhi.
2. Gravelle H and Rees R (2004) 'Micro Economics', Pearson Education, Delhi.
3. Gregory Mankiv (2016) 'Principles of Microeconomics', CBS Publishers, Delhi.
4. Henderson, J.M. and Quandt (1980) 'Micro Economic Theory: A Mathematical Approach', McGraw Hill, Delhi.
5. Koutsoyiannis, A (2000) 'Modern Microeconomics', Macmillan Press, London.
6. Salvatore, Dominic (2012) 'Micro Economic Theory', Tata McGraw Hill, Delhi.
7. Sen, A.(1999) 'Microeconomics : Theory and Application', Oxford University Press, Delhi.

Outcomes	PSO1	PSO2	PSO3	PSO4
CO1	3	2	3	2
CO2	3	2	3	2
CO3	3	2	2	3
CO4	2	2	2	3
CO5	2	2	2	2

## MACROECONOMIC ANALYSIS - II

Semester : II  
Course Code : 21ECOP0208

No. of Credits: 4  
No. of Hours: 64

### Objective

To make the students know and evaluate the macroeconomic policies and their impact on economy.

### Specific Course Objective of Learning

1. To understand the concepts of business cycles.
2. To learn the theories of interest rates.
3. To acquaint well with the product and money market equilibrium.
4. To study the balance of payments models.
5. To understand the exchange rate systems.

### Specific Course Outcomes

1. Assimilating the theories of business cycles.
2. Examining the theory interest for economic growth.
3. Gaining the theoretical knowledge of product and money market equilibrium.
4. Examining the balance of payments adjustments for growth of the economy.
5. Evaluating the exchange rate for economic development.

### UNIT - I: THEORIES OF BUSINESS CYCLES

(12 Hrs)

Meaning - Characteristics - Types of Cycles - Phases - Theories of Business Cycles - Models of Business Cycles: Samuelson - Hicks - Kaldor.

### UNIT - II: THEORIES OF INTEREST RATES

(12 Hrs)

The Classical Theory of Interest - Its Criticisms - Neo-Classical Theory of Interest - Its Criticisms - Keynes's Liquidity Preference Theory of Interest - Its Criticisms - Indeterminacy of the Classical, Neo-Classical and Keynesian theories of Interest.

### UNIT - III: THE IS-LM MODEL

(14 Hrs)

Product Market Equilibrium: Derivation, Slope, and Shifting of IS Curve - Money Market Equilibrium: Derivation, Slope, and Shifting of LM Curve - General Equilibrium of Product Market and Money Market - Changes in General Equilibrium - IS-LM Model: Effectiveness of Monetary and Fiscal policies.

### UNIT - V: BALANCE OF PAYMENTS

(14 Hrs)

Meaning - Components - Disequilibrium and its Causes of BOP - Measures to Correct Deficit in BOP - BOP Policies: Expenditure Changing Monetary and Fiscal Policies - Mundell-Fleming Model - Expenditure Switching Policies.

### UNIT - V: FOREIGN EXCHANGE RATE

(12 Hrs)

Meaning - Types - Determination of Equilibrium Exchange Rate - Causes of Changes in the Exchange Rate - Theories of Exchange Rate: Mint Parity Theory - Purchasing Power Parity Theory.

### Text Books

1. David Romer (1996), Advanced Macroeconomics, McGraw-Hill, New Delhi.
2. Dwivedi D.N., (2010), 'Macroeconomics: Theory and Policy', Tata McGraw Hill, Delhi.
3. Gregory Mankiw, (2016), 'Macroeconomics', CBS Publishers, Delhi.
4. Richard, T.Froyen (2013), 'Macroeconomics: Theories and Policies', Pearson Education, New Delhi.

### References

1. Abel, A.B and Bernanke B.S., (2001), 'Macroeconomics', Pearson Education, Delhi.
2. Ackley, G. (1978), 'Macroeconomics: Theory and Policy', Macmillian, New York.
3. Branson, W.A. (1989), 'Macroeconomic Theory and Policy', Harper and Row, New York.
4. Dornbusch, Fischer and Startz (2010), 'Macroeconomics', McGraw Hill, New Delhi.
5. Shapiro, E. (1996), 'Macroeconomics Analysis', Galgotia Publications, Delhi.

Outcomes	PSO1	PSO2	PSO3	PSO4
CO1	3	2	3	2
CO2	3	2	2	3
CO3	3	3	2	3
CO4	3	3	2	3
CO5	3	2	2	3

## INTERNATIONAL TRADE AND FINANCE

Semester : II  
Course Code : 21ECOP0209

No. of Credits: 4  
No. of Hours: 64

### Objective

- To impart the principles and theories of international trade to the students.

### Specific Course Objectives of Learning

- To understand theories of international trade.
- To examine the gains from trade.
- To analyze the components of balance of payment.
- To narrate the functions and management of foreign exchange market.
- To comprehend the role and functions of international financial institutions.

### Specific Course Outcomes

- Applying theories of international trade in the context of globalization.
- Assessing the role of tariffs and quotas in International Trade.
- Examining the balance of payments.
- Evaluating the theories of exchange and foreign exchange management.
- Narrating the role and functions of International Financial Institutions.

### UNIT - I: THEORIES OF INTERNATIONAL TRADE

(14 hrs)

Mercantilist View on Trade - Absolute Advantage - Comparative Cost Advantage - Reciprocal Demand - Opportunity Cost Theory - Factor Endowment Theory - Leontief Paradox - Stolper-Samuelson Theorem - Ricardian Theory - Concept and Policy Implications of Emerging Growth - Causes of Emergence and Measurement of Intra-Industry Trade and Its Impact on Developing Economies.

### UNIT - II: MEASUREMENT OF GAINS AND THEORY OF INTERVENTION

(12 hrs)

Measurement of Gains from Trade and their Distribution: Concept of Terms of Trade - Uses - Limitations - Theory of Interventions - Tariffs, Quotas and Non-Tariff Barriers - Effects of Tariffs and Quotas - Partial and General Equilibrium Analysis - Optimum Rates of Tariffs.

### UNIT - III: BALANCE OF PAYMENTS

(14 hrs)

Meaning - Balance of Trade and Balance of Payments - Components of BOP - Causes of Disequilibrium in BOP - Adjustment Mechanism - Under Gold Standard - Adjustment Under Flexible Exchange Rate (Price effect)- Foreign Trade Multiplier - The Elasticity Approach - The Monetary and Fiscal Approaches.

### UNIT - IV: THEORIES OF FOREIGN EXCHANGE

(14 hrs)

Foreign Exchange Market - Functions - Exchange Rate - Types of Exchange Rate - Theory of Exchange Rate: Purchasing Power Parity Theory- Mint Parity Theory - Modern Theory of Exchange Rate - Determination of Exchange Rates - Exchange Control ; Objectives, Methods and Forms - Foreign Exchange Management Act (FEMA).

### UNIT - V: INTERNATIONAL FINANCIAL INSTITUTIONS

(10 hrs)

IMF and IBRD - UNCTAD - GATT - WTO - ADB - ITC - IFC - EU - SAARC - ASEAN - BRICS - G8 - G20 - OPEC.

### Text Books:

- Bosodersten and Geoffrey Read, (2013) 'International Economics', Macmillian Press Ltd, Hampshire, London.
- Cherunilam, Francis (2004) 'International Economics', Tata McGraw Hill Publishing Company Limited, Delhi.
- Mannur, H.G, (2010), 'International Economics', Vikas Publishing House, Delhi.
- Rana K.C and Verma K.N. (2008) 'International Economics', Vishal Publishing Company, Jalandhar, India.
- Salvatore D (2014) 'International Economics', John Wiley & Sons, Singapore.

### References

- Bhagwati. J (1981), International Trade, The MIT Press; second edition.
- Paul Krugman, Maurice Obstfeld and Marc Melitz (2018) 'International Economics: Theory and Policy', Pearson India
- Education Services Limited, 11th edition, United Kingdom.
- Mundell, R., (1968) 'International Economics', Macmillan, New York.

Outcomes	PSO1	PSO2	PSO3	PSO4
CO1	3	2	3	2
CO2	3	2	2	2
CO3	3	2	2	2
CO4	3	2	2	2
CO5	3	2	3	2

## PUBLIC ECONOMICS

Semester : II  
Course Code : 21ECOP0210

No. of Credits: 4  
No. of Hours: 64

### Objective

1. To enable the students to understand the fundamentals of Public Finance with special reference to fiscal exercises of Indian Governments.

### Specific Course Objectives of Learning

1. To Analyze the budgets of Indian Government and be able to make critical evaluation of budget.
2. To understand and analyze fiscal operations.
3. To identify ways and measures for effective fiscal operations.
4. To become familiar with budgetary procedures and fiscal federalism in India.

### Specific Course Outcomes

1. Gaining knowledge on the principles of public finance.
2. Understanding the source of public revenues and models of public expenditure.
3. Examining the causes and growth of public debt.
4. Narrating the budgetary procedures and understanding fiscal Federalism.

### UNIT - I: NATURE AND SCOPE OF PUBLIC FINANCE (10 hrs)

Public Finance- Importance- Principle of Maximum Social Advantage - Public Choice and Collective decision making - Role of Public Finance in a developing economy.

### UNIT - II: PUBLIC REVENUE (15 hrs)

Sources of Revenue - Classification of taxes - Cannons of taxation -Characteristics of good taxation system -Theories of taxation -Proportional Vs Progressive taxation - Taxable capacity - Incidence of Taxation -Effects of taxation - GST and its impact on Indian Economy.

### UNIT - III: PUBLIC EXPENDITURE (12 hrs)

Meaning - Components - Principles of Public Expenditure - Pure Theory of Public Expenditure - Effects of Public Expenditure -Causes for growth of Public Expenditure in India.

### UNIT - IV: PUBLIC DEBT (12 hrs)

Meaning - Classification - Types of debt instruments -Methods of debt redemption - Role of public borrowing in a developing economy -Growth of Public Debt in India.

### UNIT - V: INDIAN BUDGETARY PROCEDURES AND FISCAL FEDERALISM (15 hrs)

Budget types - Budgetary Procedures - Structure of the Central Government Budget - Deficit finance: significance and measures - Fiscal Federalism; Financial relations under the Constitution - Finance Commission and NITI Aayog.

### Text Books

1. Musgrave, R.A. (1959) 'The Theory of Public Finance', McGraw Hill, Kogakhusa, Tokyo.
2. Musgrave, R.A. and P.B. Musgrave (1976) 'Public Finance in Theory and Practice', McGraw Hill Kogakusja, Tokyo.
3. Tyagi, BP and Singh, HP (2019) 'Public Finance' Jai Prakash Nath & Co, Delhi.
4. Gupta, J.K(2014) Public Economics in India; Theory and Practice, Atlantic, New Delhi.

### References

1. Atkinson, A.B. and J.E.Stiglitz (1980) 'Lectures on Public Economics', Tata MaGraw Hill, New York.
2. Buchanan, J.M. (1970) 'The Public Finances', Richard D. Irwin, Homewood.
3. Sury M.M., (2003) 'India: Central Government Budgets 1947-48 to 2003-04', Indian Tax Foundation, Delhi.

Outcomes	PSO1	PSO2	PSO3	PSO4
CO1	3	3	3	2
CO2	3	2	3	3
CO3	3	3	2	2
CO4	2	3	2	2

## QUANTITATIVE TECHNIQUES IN ECONOMICS

Semester : II  
Course Code : 21ECOP0211

No. of Credits: 4  
No. of Hours : 64

### Objective

- To train the students in the core areas of Quantitative Techniques and their application in economic analysis

### Specific Course Objectives of learning

- To gain skills in the core concepts of quantitative techniques.
- To take a rigorous, quantitative approach to the economic problems.
- To apply quantitative techniques in economic research.
- To demonstrate Quantitative Techniques in solving economic issues.

### Specific Course Outcomes

- Applying Mathematical models in economics
- Identifying and simplifying complex issues.
- Designing and conducting experiments, analyzing and interpreting data
- Projecting the economic growth and development.
- Utilizing appropriate technical tools for economic planning

### UNIT - I: SET THEORY AND NUMBER SYSTEM (10 hrs)

Mathematical Economics: Need and Scope - Role of mathematics in economics theories -Operations of SET and Laws of SET Operations - Number System and Properties.

### UNIT - II: ELEMENTS OF ALGEBRA AND GEOMETRY (12 hrs)

Relations and Functions: Functions with One and Two Variables - Straight Line - Parabola - Rectangular Hyperbola - Exponential and Logarithmic - Concave and Convex Functions. Equations: Solutions of Linear and Quadratic Equations.

### UNIT - III: DIFFERENTIATION AND INTEGRATION (17 hrs)

Rules of Differentiation - Partial Derivatives - Total Derivatives - Maxima and Minima - one variable, Two or More variables- Applications in Economics - Revenue, Costs, Elasticity, Productivity and Equilibrium- Integration - meaning - Rules of Integration- Applications of integration in Economics

### UNIT - IV: OPTIMIZATION PROBLEMS IN ECONOMICS (13 hrs)

Homogeneous Function and their Properties - Euler's Theorem - Application of Cobb-Douglas, C.E.S. and Frontier Production Function and their Properties - Linear Programming - Graphical and Simplex method - Input-Output Analysis - Static and Dynamic - Game Theory - Strategies and values - Saddle point - Simple Applications.

### UNIT - V: MATRICES (12 hrs)

Basic Concepts - Different Types of Matrices, Addition and Multiplication of Matrices - Inverse - Rank - Determinants - Solution of Simultaneous Equations - Cramer's Rule - Inverse of Matrix.

### Text Books

- Allen, R.G.D. (1974) 'Mathematical Analysis for Economists', Macmillan Press and ELBS, London.
- Baumol, W.J. (1984) 'Economic Theory and Operations Analysis', Prentice Hall, Englewood Cliffs, New Jersey.
- Chiang, A.C. (1986) 'Fundamental Methods of Mathematical Economics', McGraw Hill, New York.
- Hoog, R.V. and A.T.Craig (1970) 'Introduction in Mathematical Statistics', Macmillan Publishing Co., New York.
- Monga, G.S. (1972) 'Mathematics and Statistics for Economists', Vikas Publishing House, Delhi.

### References

- Agarwal, H.S (1977) 'Introduction to Econometrics and Mathematical Economics', Laksminarain Agarwal Educational Publishers, Agra.
- Hadley, G. (1962) 'Linear Programming', Addison Wesley Publishing Co., Massachusetts.
- Mathur, P.N. and R.Bharadwaj (Eds) (1967) 'Economic Analysis in Input-Output Research', Input-Output Research Association of India, Pune.
- Yamane, Taro (1975) 'Mathematics for Economists', Prentice Hall of India, Delhi.

Outcomes	PSO1	PSO2	PSO3	PSO4
CO1	3	3	3	3
CO2	3	3	2	3
CO3	3	3	2	3
CO4	3	2	2	3
CO5	3	2	2	3



## ECONOMICS OF GROWTH AND DEVELOPMENT

Semester : III  
Course Code : 19ECOP0312

No. of Credits: 4  
No. of Hours: 64

### Objective

To facilitate students to study the mainstream theories of development and growth.

### Specific Course Objectives of Learning

1. To develop learning the development models in economics.
2. To formulate theoretical framework for economic growth.
3. To apply and analyze the growth theories.
4. To demonstrate development thinking for Economic Policy.
5. To construct various economic development indices.

### Specific Course Outcomes

1. Applying various growth models for solving economics problems
2. Identifying economic theories for promoting sustainable development
3. Utilizing suitable growth models for Indian economic planning
4. Forecasting the suitable technology adaption
5. Compiling various development parameters.

### UNIT - I: ECONOMIC DEVELOPMENT AND GROWTH (10 hrs)

Economic Development - Concepts and approaches - characteristics of under developed economy - Obstacles to economic development - Factors influencing Economic development and growth - Characteristics of modern economic growth - Indian Economic Growth - A Critic.

### UNIT - II: THEORIES OF ECONOMIC DEVELOPMENT - I (15 hrs)

Adam smith - J.S.Mill - Karl Marx - Schumpeter - Keynes - Rostow - Nurkse.

### UNIT - III: THEORIES OF ECONOMIC DEVELOPMENT - II (15 hrs)

Lewis - Fei-Ranis - Leibenstein - Rosenstein - Rodan's Doctrine of Balanced Growth - Concept of Unbalanced Growth - Dualistic Theory - Myrdal's Theory.

### UNIT - IV: GROWTH MODELS (15 hrs)

Harrod-Domar - Kaldor - Joan Robinson - Meades - Solow - Models of Technical Change - Steady-State growth - Mahalanobis Model.

### UNIT - V: MEASURES FOR ECONOMIC DEVELOPMENT - DOMESTIC (9 hrs)

Domestic Measures: Capital formation - Human capital formation - Role of State - International Measures: Foreign Trade, Foreign Capital, Indicating FDI - Direction and Sectors and MNCs.

### Text Books

1. Chakraverti, S. (1982) 'Alternative Approaches to the Theory of Economic Growth', Oxford University Press, Delhi.
2. Jhingan M.L (2014) 'Economics of Growth and Development', Himalaya Publishing House, Delhi.
3. Kindleberger, C.P. (1977) 'Economic Development', McGraw Hill, New York.
4. Meier, G.M. (1995) 'Leading Issues in Economic Development', Oxford University Press, New York.
5. Todaro, M.P. (1996) 'Economic Development', Longman, London.

### References

1. Adelman, I. (1961) 'Theories of Economic Growth and Development', Stanford University Press, Stanford.
2. Behrman, S and T.N.Srinivasan (1995) 'Handbook of Development Economics' Vol.3, Elsevier, Amsterdam.
3. Dasgupta, P. (1993) 'An Enquiry into Well being and Destitution', Clarendon Press, Oxford.
4. Sen, A.K. (Ed.) (1990) 'Growth Economics', Penguin, Harmondsworth.
5. Solow, R.M. (2000) 'Growth Theory : An Exposition', Oxford University Press, New Delhi.

Outcomes	PSO1	PSO2	PSO3	PSO4
CO1	3	3	2	2
CO2	3	1	2	2
CO3	3	2	3	3
CO4	3	2	2	3
CO5	3	1	2	2

## ECONOMETRICS

Semester : III  
Course Code : 21ECOP0313

No. of Credits: 4  
No. of Hours: 64

### Objective

1. To familiarize the students with the basics and methodology of econometrics.

### Specific Course Objectives of Learning

1. To apply and integrate various econometric tools.
2. To formulate appropriate models and techniques to solve economic problems.
3. To apply economic theory for empirical verification.
4. To assess complex policy issues and analyze them using economic models.

### Specific Courses Outcomes

1. Applying advanced econometrics models.
2. Forecasting the economic growth and development
3. Assessing the economic conditions
4. Designing appropriate models and mathematical techniques to solve economic problems

### UNIT - I: MODELS AND METHODOLOGY

(12 Hrs)

Economic and Econometric models - Nature and Scope of Econometrics,- Methodology of Econometrics - Assumptions of OLS - Regression Analysis: Linear and Non-linear - Properties of OLS Estimates - Co-efficient of Determinants - R Square - Standard Error - ANOVA - Testing of significance of parameters.

### UNIT - II: PROBLEMS IN ECONOMETRIC RESEARCH

(12 hrs)

Violations of Assumptions:Auto-correlation, Multicollinearity and Heteroscedasticity: Causes, Consequences and Remedies.

### UNIT - III: DUMMY VARIABLES

(10 hrs)

Dummy Variables: Dependent and Independent - Distributed Lag Model - Need, Limitations and Interpretation in Economics.

### UNIT - IV: TIME SERIES ANALYSIS

(15 hrs)

Time Series Analysis - Stationary and Non Stationary - Random Walk Models- Economic Time Series Stationary and Non Stationary -Unit Root Test - Granger Causality Test.

### UNIT - V: FORECASTING

(15 hrs)

Concept of a Forecasting - Methods of Forecasting - ARIMA and VAR- Types of Forecasting - Point Prediction - Interval Prediction - Actual Observation- Measuring the Accuracy of Forecasts.

### Text Books

1. Gujarati Damodar N (1998), 'Essentials of Econometrics', Irwin Mcgraw Hill, Newyork.
2. Gujarati, Damodar N (2003), 'Basic Econometrics', Irwin MC graw hill, Newyork.
3. Koutsoyiannis A (1992), 'Theory of Econometrics: An Introductory Exposition of Econometric Methods', McMillan, Chennai.
4. Koutsoyiannis A (1999), 'Theory of Econometrics', Palgrave Publishers Ltd, Newyork.
5. Maddala G S (2002), 'Introduction to Econometrics', John Wiley, Newyork.

### References

1. Metha and Kranti Kapoor (2005) 'Fundamentals of Econometrics', Himalaya Publishing House, Mumbai.
2. Nachane D (2006), 'Econometrics' Oxford University Press, Delhi
3. Robert S. Pindyck & Daniel L. Rubinfeld (1998), 'Econometric Models and Economic Forecasts', Irwin Mcgraw Hill, Newyork.

Outcomes	PSO1	PSO2	PSO3	PSO4
CO1	3	2	2	3
CO2	3	2	2	3
CO3	3	3	3	2
CO4	3	3	1	2
CO5	3	3	3	3

## RESEARCH METHODOLOGY

Semester : III  
Course Code : 19ECOPO314

No. of Credits: 4  
No. of Hours: 64

### Objective

1. To apply the principles of research methodology in conducting research and writing the research reports.

### Specific Course Objective of learning

1. To become familiar with the methods and techniques of social science research.
2. To explore the different data sources and methods of data collection.
3. To gain skills in choosing and applying research methods.

### Specific Course Outcomes

1. Developing scientific outlook towards a holistic view of research and its process.
2. Gaining skills in employing methods and techniques of scientific research in their respective research projects.

### UNIT - I: SCIENTIFIC RESEARCH (12 hrs)

Definition - Purpose and Principles of Scientific Method - Steps in Scientific Research - Types of Research: Applied and Action Research, Qualitative and Quantitative Studies, Policy, Development and Participatory Research.

### UNIT - II: RESEARCH PROCESS (12 hrs)

Formulation of a Research Problem - Review of Related Literature - Criteria in Selection of a Topic - Hypothesis - Role and Functions - Operational Definitions of Terms and Concepts - Independent and Dependent Variables.

### UNIT - III: METHODS OF RESEARCH (12 hrs)

Preparation of Research Design and its components - Exploratory, Descriptive and Experimental Designs - Social Surveys - Content Analysis - Case Study - Intervention Research - Interdisciplinary - Transdisciplinary research.

### UNIT - IV: TOOLS FOR DATA COLLECTION (15 hrs)

Data - Primary and Secondary Sources - Data Collection Methods - Interview, Observation, Focus Group Discussion, Participatory Rural Appraisal and Sociometry - Transact walk, SIA, EIA, RRA, Schedule, Questionnaire, Check List, Rating Scale, Psychological Tests, Projective Techniques - Pre-Test and Pilot Study, Establishing reliability and Validity.

### UNIT - V: REPORT WRITING (13 hrs)

Research Report - Basic Components and Format of Research Report - Types of Reports -Reference Materials - Quotations - Bibliography - Foot Notes - Glossary - Appendix.

### Text Books

1. Bhatnagar. O.P., (1990) 'Research Methods and Measurements in Behavioural and Social Sciences', Agri cole, Delhi.
2. Young, P.V., (1994) 'Scientific Social Survey and Research', Prentice Hall, Delhi.

### References

1. Bandarkar, Wilkinson (1991) 'Methods and Techniques of Social Research', Himalaya Publishing, Bombay.
2. Goode and Hatt (1992) 'Methods in Social Research', McGraw Hill, Delhi.
3. Hans Raj (1996) 'Theory and Practice in Social Research', Surjeet Publications, Delhi.
4. Kothari, C.R., (2012) 'Research Methodology: Methods and Techniques', Willey Eastern, Delhi.
5. Krishnaswamy O.R., (2010) 'Methodology of Research in Social Sciences', Himalaya, Bombay.
6. Shajahan S., (2005) 'Research Methods for Management' (Third Edition), Jaico Publishing, Mumbai.

Outcomes	PSO1	PSO2	PSO3	PSO4
CO1	3	2	2	3
CO2	3	1	3	3

## COMPUTER APPLICATION IN ECONOMICS

Semester : III  
Course Code : 21ECOP0315

No. of Credits: 4  
No. of Hours: 64

### Objectives

- To familiarize the students on the application of computer in data analysis.

### Specific Course Objectives of Learning

- To become aware the basics of computer applications;
- To become familiar with economic data application is MS-Office;
- To gain skill in the statistical data analysis for economics subject;
- To analyze economic data with models in SPSS.

### Specific Course Outcomes

- Developing skills in computer basics;
- Enabling students to prepare charts and diagrams;
- Gaining knowledge in the computer application for economics;
- Developing skills in computer application in economics data; and
- Applying the statistics tools using SPSS in the solution of economic problems.

### UNIT I: Introduction

(10 hrs)

Computer Application for economics, need and scope - objectives, importance, MS-Word opening, saving and printing document files, Editing and formatting of documents, inserting page numbers and footnotes, Table: Auto Format and Properties.

### UNIT II: Data Set

(10 hrs)

Data and Information: Annual Survey of Industries meaning, types, Primary, Secondary-Time Series documents, Cross section, Pooling with illustration- ASI, Agriculture Census, Census Reports, World Bank, RBI, NSSO- Advantages and limitations of Database- System; Transfer of data among different softwares.

### UNIT III: Creation, Graphs and Diagrams

(12 hrs)

Preparing tables, Introduction to MS Power Point, Preparation of presentations in Power point using design template and text structure layouts. Editing the document. Designing and redesigning the document. Records and mail merge.

### UNIT IV: Formatting of Data

(17 hrs)

Introduction to Microsoft Excel: Creation of worksheets; Data entry, formatting. Insertion of rows and columns. Entering data and processing using Excel - downloading data from internet and its conversion into application - Mathematical and statistical calculations - Excel functions. Applications in economics using examples - computing mean, median, mode, standard deviation and CV- Creating and Modifying graphs, diagrams and other charts.

### UNIT V: Analysis of Data with SPSS

(15 hrs)

Introduction to SPSS: Creation of data files, assigning names and labels to variables, sort cases, import/export of files, computing variable, data analysis: Descriptive statistics, Comparing means, Correlation analysis, ANOVA, Regression Analysis, Chi-square.

### Text Books

- George, Darren Mallery Paul (2011) 'SPSS for Windows step by step: A simple guide and reference 15.0', Pearson Education, Delhi.
- Sabine Landau and Brian S.Everitt (2004) 'A handbook of Statistical Analyses Using SPSS' Chapman & Hall/CRC Press, London, Newyork, Washington.D.C.

### References

- Bhattacharjee Dibyojyoti (2010) 'Practical Statistics: Using Microsoft Excel', Asian Books, Asian Books Private Limited, New Deli.
- Damodar Gujarati (2006) 'Basic Econometrics' Tata Mcgraw Hill, Delhi.
- Gupta S.P., (2009) 'Statistical Methods', S.Chand and Company, Delhi.

Outcomes	PSO1	PSO2	PSO3	PSO4
CO1	3	2	2	3
CO2	3	2	2	3
CO3	2	2	2	2
CO4	2	3	2	2
CO5	2	3	3	2

## ELECTIVE DISCIPLINE CENTRE - 21ECOU03DX

### PROJECT PLANNING AND EVALUATION

Semester : III  
Course Code : 21ECOP03D1

No. of Credits: 3  
No. of Hours: 48

#### Objective

To expose the students to essential methodology of project planning and evaluation

#### Specific Course Objectives of Learning

1. To develop better understanding and earn skills in concepts and methods of project planning and evaluation.
2. To plan and evaluate projects.
3. To prepare a project proposal.

#### Specific Course Outcomes

1. Understanding the major concepts in Project Planning and Evaluation and applying them
2. Preparing Projects for enterprise and economic development

#### UNIT - I: PROJECT - BASIC CONCEPTS

(10 hrs)

Project - Concepts, characteristics, classification - project life cycle - Identification selection of Project.

#### UNIT - II: PROJECT FORMULATION

(12 hrs)

Project formulation - Methodology - Project feasibility: Techno - economic - Input - project design and network - financial -social cost benefit and environmental feasibility analysis.

#### UNIT - III: PROJECT APPRAISAL

(8 hrs)

Project Appraisal - Methodology - Appraisal of different feasibility analyses - Criteria for project Appraisal - Discounted and un-discounted techniques.

#### UNIT - IV: PROJECT MONITORING

(8 hrs)

Project Monitoring - Aspects to be Covered - Designing and operating the monitoring system - Tools - Rate of Disparity and Milestone approach.

#### UNIT - V: PROJECT EVALUATION

(10 hrs)

Project Evaluation - Need - Criteria, performance indicators, evaluating operational efficiency - Impact of the project - Evaluating the worthiness of project - project replication.

#### Text Books

1. Batteily. A., (1967) 'Network Analysis for Planning and Scheduling', Macmillan, London.
2. Bhargava B.S., et al., (1977) 'Project Identification, Formulation and Appraisal- With Emphasis of Industry', Institute for Social and Economic Change, Bangalore.
3. Lettle, I.M.D and Mirreles, (1974) 'Project Appraisal and Planning for Developing Countries', Oxford and IBH, Delhi.
4. Prasanna Chandra., (2010) 'Project-Preparation Appraisal Budgeting and Implementation', Tata McGraw Hill, Delhi.

#### References

1. Mathoo, P.K., (1978) 'Project Formulation in Developing Countries', Macmillan, Delhi.
2. Pandey, I.M., (2012) 'Financial Management', Vikas, Delhi.
3. Putuswamaiah. K., (1979) 'Fundamentals of Applied Evaluation', Oxford & IBH, Delhi.
4. Putuswamaiah K., (1980) 'Project, Evaluation Criteria and Cost-Benefit Analysis', Oxford & IBH, Delhi.

Outcomes	PSO1	PSO2	PSO3	PSO4
CO1	3	2	2	3
CO2	3	2	2	3

**ELECTIVE DISCIPLINE CENTRE - 21ECOU03DX**

**TAMILNADU ECONOMY**

**Semester : III**  
**Course Code : 21ECOP03D2**  
**Objective**

**No. of Credits: 3**  
**No. of Hours: 48**

To impart Knowledge about Tamil Nadu Economy and its dynamics

**Specific Course Objectives of Learning**

1. To understand Tamilnadu demographic dimensions.
2. To study with clarity on the issues of occupation and unemployment.
3. To know the status of Agriculture in Tamil Nadu Economy.
4. To gain knowledge in taking up studies in economic issues of Tamilnadu.
5. To obtain familiarity on Education, Health and finance, of Tamilnadu.

**Specific Course Outcomes**

1. Knowing the profile of Tamil Nadu economy
2. Identifying the major socio-economic problem of Tamilnadu.
3. Identifying the agriculture issues in Tamil Nadu
4. Rendering knowledge about role of industry in Tamil Nadu
5. Highlighting the significance of education, Health and state finance

**UNIT - I: Tamil Nadu Economy (10 hrs)**

Profile - Physical Features - Demographic Profile - Rural and Urban Disparities - Magnitude of Migration - Local Government History and Culture - Note on Tamilnadu Politics.

**UNIT - II: Occupation Structure and Employment (12 hrs)**

WFPR - Structural Distribution of Workforce - Rural and Urban Workforce Status - Employment Schemes - Poverty and Inequality - Concepts - Trends - Nutritional Poverty - Economic Inequality - Policy Interventions.

**UNIT - III: Agriculture and Allied Activities (8 hrs)**

Land utilization - Rainfall - Agro-Climate Zones - Irrigation and Cropping Patterns - Agriculture Production and Productivity - Trends - Consumption Pattern - PDS - Objective and Achievement - Livestock: Significance and Composition - Milk and Fish Economy of Tamil Nadu.

**UNIT - IV: Industry (8 hrs)**

Share of Industrial Sector on GDP - Sustainable Development Programme - Trends and Growth - Village and Small-Scale Industries - MSME - Micro, Small and Medium Enterprises - Problems and Prospects. Energy - Sources and Forms -- Features of TNEB - Rural Energy Problems - Alternative energy Sources in Tamil Nadu.

**UNIT - V: Education, Health and Housing (10 hrs)**

Concepts and Role of Education - Status - Primary, Secondary and Higher Education - Budget Allocation of Education Sector - Primary Health Care. Housing - Status - Urban Slums - Rural Housing Policy. State Finance - Trends - Tax - Capital Formation - GDP and its Sectoral Components - IT and Service Sector - Tourism in Tamil Nadu.

**References**

1. Dhingra, I.C., (1995), **Indian Economy with Special Reference to Tamil Nadu**, Sultan Chand and Co., New Delhi.
2. GOI, (2000), **Tamil Nadu Development Report, Planning Commission**, Government of India, Series of 2000, Academic Foundation, New Delhi.
3. Madras Institute of Development Studies (1988), **Tamil Nadu Economy: Performance and Issues**, Oxford and IBH, Madras
4. Perumalsamy. S., (1998), **Tamil Nadu Economy Performance & Issues**, Oxford & IBH, New Delhi.
5. Rajalakshmi. N, (1995), **Economic Development of Tamil Nadu**, S.Chand & Co., New Delhi.
6. Tamil Nadu Economic Appraisals, Published by the Government of Tamil Nadu, Series of 2000.
7. Veeramani, A.R., (2005), **Tamil Nadu Agricultural Economy**, Divyasre Publication Book House, Chennai.

Outcomes	PSO1	PSO2	PSO3	PSO4
CO1	2	3	2	3
CO2	2	3	2	2
CO3	3	2	1	2
CO4	3	2	2	2
CO5	3	2	3	1

**ELECTIVE DISCIPLINE CENTRE - 21ECOP03DX**  
**GLOBALIZATION AND WTO: ISSUES AND STRATEGIES**

**Semester : III**  
**Course Code :21ECOP03D3**

**No. of Credits: 3**  
**No. of Hours: 48**

**Objective**

1. To enable the students to understand the fundamentals of Globalization and WTO.

**Specific Objectives of Learning**

1. To become familiar with process and impact of globalization and functioning of international institutions.
2. To understand the aftermath of WTO

**Specific Course Outcomes**

1. Understanding the concept of globalization
2. Gaining knowledge on WTO and its implications
3. Preparing for future challenges of WTO meant for future generations.

**UNIT - I: GLOBALIZATION (10 hrs)**

Globalization - Concept - Advocacy of globalization - Stages and Phases of globalization - Organization and globalization - Role of global managers - Criteria for success.

**UNIT - II: EVOLUTION OF GLOBAL LIBERALIZATION: GATT / WTO (12 hrs)**

GATT: Objectives and Principles - Evolution of GATT - Uruguay Round - WTO: Evolution - Organizational Structure - Objectives - Functions and Principles - WTO Rounds (conferences) of Global trade Negotiations

**UNIT - III: WTO AGREEMENTS (8hrs)**

Features - Trade Related Intellectual Property Rights (TRIPs) Intellectual property Rights, copyrights, Trade marks, Designs and AOA.

**UNIT - IV: IMPACT OF GLOBALIZATION (8 hrs)**

Impact of Globalization on Third World - Countries in terms of Agriculture - Trade and Services - Inequality and Poverty. Globalization and State responses to Globalization - Socio-economic and Political resistance to Globalization - Globalization and its Impact on India.

**UNIT - V: CHALLENGES OF GLOBALIZATION AND WTO (10 hrs)**

Issues in Tariff and non-Tariff Barriers - Trade and Environment - UN conference on Environment and Development - Agenda 21 -Trade in Services - Third world Unity in WTO.

**Text Books**

1. Chandran R (2005): **International Business**, Jaico Publishing House, Mumbai.
2. Gaurav Datt and Ashwani Mahajan: (2014) **Datt and Sundaram's Indian Economy**, S.Chand, Delhi.
3. Falendra K. Sudan (2005):**Globalisation and Liberalisation**, Series Publications, Delhi.
4. Francis Cherunilam (2006): **International Economics**, Himalaya Publishing House, Mumbai.
5. Francis Cherunilam (2010): **Business Environment**, Himalaya Publishing House, Mumbai.
6. Gopalsamy. N (1998): **GATT/WTO, TRIPs, TRIMS and Trade in Services**, Wheeler John Publications, Mumbai.
7. Ramakant-sugam (1996): **Globalisation of Indian Economy**,G.Jain Pointer Publishers, Jaipur.
8. Rao, M.B (2001): **WTO and International Trade**, Vikas Publishing, House, Delhi.

Outcomes	PSO1	PSO2	PSO3	PSO4
CO1	2	3	2	2
CO2	3	2	2	3
CO3	3	3	3	2

## ENVIRONMENTAL ECONOMICS

Semester : IV  
Course Code : 21ECOP0416  
Objective

No. of Credits: 3  
No. of Hours: 48

- To provide theoretical orientation to the students in the study of Environmental Economics.

### Specific Course Objectives of Learning

- To recognize relationship between environment and development
- To understand anatomy of environmental resources
- To study global environmental issues and their impact on society.
- To apply the valuation technique of environmental resources
- To narrate the environmental regulation.

### Specific Course Outcomes

- Analyzing relationship between environment and Development
- Understanding anatomy of environmental resources
- Studying global environmental issues and their impact on society
- Using valuation technique of environmental resources
- Narrating the environmental regulation for creating environmental ethics.

### UNIT - I: BASICS OF ENVIRONMENTAL ECONOMICS (10 hrs)

Environmental Economics Definition - Nature, Scope and Importance - Relationship between Environmental Economics and other disciplines -- Environment and Ecology - Environment and Economy: Material Balance Model - Environment and Welfare - Externalities thesis and Market Failures.

### UNIT - II: ANATOMY OF ENVIRONMENTAL RESOURCES: (12 hrs)

Anatomy of resources - Common Property Resources: Definition, Types, Characteristics and Functions - Resource Depletion: Causes and consequences Natural Resource Accounting and Sustainable Development - Approaches and Indicators.

### UNIT - III: ENVIRONMENTAL ISSUES AND PROBLEMS (8 hrs)

Land Pollution, Water Pollution, Noise Pollution, Air Pollution - Causes and Effects - Global Warming and Climate Change, Ozone Layer Depletion - Desertification - Acid Rain - Bio-diversity Loss: Causes and Impacts - Clouds Burstiy - e-Water.

### UNIT - IV: VALUATION OF ENVIRONMENTAL RESOURCES (8 hrs)

Environmental Values - Concepts of Total Economic Value - User value and Non-user value - Valuation Methods - Travel Cost Method, Hedonic Price Theory and Contingent Valuation Method.

### UNIT - V: REGULATIONS AND POLICIES FOR PROTECTING ENVIRONMENT (10 hrs)

Environmental Regulatory Instruments - CAC, Legal, Fiscal and Economic - Global - Environmental Movements - Institutional approach to Environmental Management and Domestic - Environmental Ethics - Environmental Acts and Policies in India.

#### Text Books

- Dutt, A., Dutta, S and Pandey (2005) 'Environmental Economics' APH Publishing Corporation, Delhi.
- Karpagam. M (1999) 'Environment Economics A Text Book', Sterling, Chennai.
- Sankar. U (2000) 'Environmental Economics', Oxford University Press, Delhi.
- Seb Gupta, Ram Prasad (2001) 'Ecology and Environment: An Approach to Sustainable Development', Oxford University Press, Delhi.
- Varadarajan S. and Elangovan S. (1992) 'Environmental Economics', SPEED, Madurai.

#### References

- Bhattacharya N. Rabindra (Ed.) (2001) 'Environmental Economics: An Indian Perspective', Oxford University Press, Delhi.
- Citizen Reports on Environment, (1986) 'First to the Latest Citizen's Reports on Environment', Centre for Science and Environment, Delhi.
- Common, M. (1996) 'Environmental and Resource Economics: An Introduction Longman', England.
- Tom Tietenberg (2003) 'Environmental and Natural Resource Economics, Pearson, Delhi

Outcomes	PSO1	PSO2	PSO3	PSO4
CO1	2	2	3	3
CO2	2	2	3	3
CO3	2	2	2	2
CO4	3	2	2	2
CO5	3	3	3	2



## GANDHIAN ECONOMICS

Semester : IV  
Course Code : 19ECOP0417

No. of Credits: 3  
No. of Hours: 48

### Objective

- To orient the students with the Gandhian ideas of economics.

### Specific Course Objectives of Learning

- To formulate Gandhian economic models
- To inculcate Gandhian Principles on Industrial Development.
- To create an atmosphere to develop sustainable micro level planning
- To outline the relevance of natural reforms management.
- To evaluate the significance of sustainable development.

### Specific Course Outcomes

- Developing sustainable economic development models.
- Demonstrating the Gandhian thought on industrialization
- Preparing alternative planning models.
- Discussing ways and means to conserve natural resources.
- Formulating sustainable development India.

### UNIT - I: PRINCIPLES OF GANDHIAN THOUGHTS (10 hrs)

Fundamental Principles of Gandhian Economic Thought- Non-Violence-Philosophy of work and Bread labour-ownership of Common Property- Trusteeship- cooperative - value based development- Need Vs Greed.

### UNIT - II: GANDHIAN THOUGHT AND TECHNOLOGY (12 hrs)

Gandhi's thought on industrial action - Mechanization - Appropriate / Intermediate Technology. Role of cottage and small scale village industries and rural crafts in the rural Economy.

### UNIT - III: GANDHIAN AND WELFARE ECONOMICS (8 hrs)

Gandhi's critique of industrialism - Decentralized production - Mass Production and production by masses - System Sarvodaya economics - Swadeshi and its relevance- importance of welfare economics.

### UNIT - IV: RURAL RECONSIDERATION (8 hrs)

Gandhian Principles - Rural Reconstruction - Programmes- Self-sufficiency- Khadi and handloom sector- Bhoodan, Gramdan and Kisan movements- Role of village Panchayat and public finance - Collective farming and rural development.

### UNIT - V: ECONOMY OF PERFORMANCE (10 hrs)

Economy of permanence - economic ideas of Gandhi in the context of Globalizations contemporary Development - issues in sustainable development and emerging challenges - Solutions - J.C Kumarappa Ideas.

### Text Books

- Bipin Chandra, (2016) 'The Rise and growth of Economic Nationalism in India' Har-Anand Publications Pvt Ltd, Delhi.
- Chacko.K.C (1986) 'Metaphysical Implications of Gandhian Thought', Mittal Publications, Delhi.
- Gandhi, M. K., (1930) 'The Congress', Young India, 12(2), January.
- Gupta.S.S (1994) 'Economic Philosophy of Mahatma Gandhi', Ashok Publishing House, Delhi.
- Kumarappa, J. C. (1949) 'The Gandhian Economy and Other Essays', The All India Village Industries Association, Wardha.
- Kumarappa, J. C., (1997) 'Economy of Permanence : A Quest for a Social Order Based on Non-Violence, Varanasi, Sarva Seva Sangh Prakashan, reprint of Second Edition.

### References

- Guha, R., (1992) 'Prehistory of Indian Environmentalism: Intellectual Traditions', Economic and Political Weekly, Jan 4-11.
- Kripalani.J.B, (1957) 'Planning and Sarvodaya', S.S.S.P, Varanasi.
- Kumarappa, J. C., (1939) 'Economic Surveying and Planning', Hindustan Publishing Rajahmundry.
- Kumarappa, J. C., (1959) 'Vicarious Living', Kumarappa Publications, Madras.
- Raja, L. Jeyaraju M.A. and LuiginoBruni (2007), 'Economy of Permanence and Dynamics of a Sharing Community', Gandhigram Rural Institute, Gandhigram
- Schumacher.E.F, (1993) 'Small Is Beautiful', Vintage Book, London.
- Tahtinen Unto (1979) 'The Core of Gandhiji's Philosophy', Abhinav Publications, Delhi.

Outcomes	PSO1	PSO2	PSO3	PSO4
CO1	3	2	3	1
CO2	3	3	2	2
CO3	3	3	3	3
CO4	3	2	3	2
CO5	3	2	2	2

## INDIAN ECONOMIC POLICY

Semester : IV  
Course Code : 21ECOP0418

No. of Credits: 4  
No. of Hours: 64

### Objective

- To inculcate the students with the knowledge on Indian Economy and facilitate them to identify and address issues of Indian Economy.

### Specific Course Objectives of learning

- To understand the nature and structure of Indian Economy.
- To study the Indian Economic Planning.
- To explore the significance of sectors of Indian economy.
- To examine the budget and Parallel economy in India.

### Specific Course Outcomes

- Recognizing the Indian Economic Problems
- Comparing and contrasting the Five Year Plans in India.
- Assessing the Agricultural Economy in India.
- Analyzing Indian industrial development.
- Discussing Budget and explaining Parallel economy.

### UNIT - I: INDIA - A FAST GROWING ECONOMY (10 hrs)

Meaning of an Underdeveloped Economy - Basic Characteristics of Indian Economy - Major Issues of Developing Economy and Fast growing economy- India as a Mixed Economy -Structure of Indian Economy - Growth and Development - Balanced and Unbalanced Growth Strategy - Big Push Theory.

### UNIT - II: INDIAN ECONOMIC PLANNING (10 hrs)

Planning exercise in India - People's Plan - Gandhian plan - Planning Commission - Economic Planning - Rationale, Objectives and Strategy - Assessment of Indian Planning - Achievements and Failures of Economic Planning - Indian Economy: Post Liberalization - Performance and Prospects - Structure and Role of NITI Aayog.

### UNIT - III: INDIAN AGRICULTURE (15 hrs)

Role of Agriculture in the Indian Economy - Programmes and Progress under Five Year Plans - Status of Indian Agriculture - Agriculture production and Productivity - National Commission on Farmers - Green Revolution and Organic Farming in India - Policy and Technologies Fatigue Debate - Agrarian distress - Doubling farmer's Income- Agricultural subsidies - Agricultural Labour.

### UNIT - IV: INDUSTRIAL AND SERVICE SECTOR (14 hrs)

Role and Patterns of Industrialization - Trends in the Growth of Industries in India - Programmes and Schemes for Industrial Development under Five Year Plans - New Industrial Policy - Some Major Industries - MSMEs - Industrial Sickness - Industrial Relations - Trade Union - Service sector in India - Problems and Prospects.

### UNIT - V: BUDGET AND PARALLEL ECONOMY IN INDIA (15 hrs)

Revenues and Expenditures of the Central Government - Budgets of the Central and State Governments - Parallel Economy: Black Money and Corruption and their Impact on the Indian Economy - Policy Measures to Control Parallel Economy - Demonetization and Goods and Service Taxes- Revenue sharing between Union and State governments.

### Text Books

- Gaurav Datt and Ashwani Mahajan C (2014), Datt and Sundaram's 'Indian Economy', S.Chand, Delhi.
- Mishra and Puri, (2005) 'Indian Economy', Himalaya Publishing House, Delhi.
- Prasad C.S., (Ed.) (2005) 'India Economic Policies and Performance 1947-48 to 2004-05', New Century Publications, Delhi.
- Sury M.M., (2003) 'India: Central Government Budgets 1947-48 to 2003-04', Indian Tax Foundation, Delhi.

### References

- Bimal Jalan (2002) 'India's Economy in the New Millennium: Selected Essays', UBSPD, Delhi.
- Brahmananda, P.R. and V.R. Panchmukhi (Eds) (2001) 'Development Experience in the Indian Economy: Inter-State Perspectives', Bookwell, Delhi.
- Chelliah, Raja J. and R. Sudarshan (1999) 'Income, Poverty and Beyond: Human Development in India', Social Science Press, Delhi.
- Dandekar, V.M. (1996) 'The Indian Economy, 1947-92', Vol.II, Sage Publications, Delhi.
- Government of India (2007) 'India Vision 2020' Academic Foundation, Delhi.
- Rangarajan, C. (1998) 'Indian Economy: Essays on Money and Finance', UBS, Delhi.

Outcomes	PSO1	PSO2	PSO3	PSO4
CO1	3	3	2	2
CO2	3	3	2	1
CO3	2	2	2	2
CO4	2	3	2	3
CO5	2	2	2	3

**MODULAR COURSES - 21ECOP03MX  
HUMAN DEVELOPMENT INDEX AND ITS APPLICATIONS**

**Semester : III**  
**Course Code : 21ECOP03M1**

**No. of Credits: 2**  
**No. of Hours: 32**

**Objective**

1. To make the students become well-verse with the development indicators with special Human Development Index (HDI).

**Specific Course Objective of learning**

1. To understand the basic indicators of development
2. To apply the different indicators of HDI.

**Specific Course Outcomes**

1. Understanding the methodology for developing indicators of sustainable economic development
2. Applying the indicators in micro and macro level data.

**UNIT - I:** Capital - Meaning - Customer capital - structural capital - Human capital- definition significance and importance - Human capital valuation - methods and significance approaches - Human capital Index - PQLI, ecological Foot Print - Resource and Environmental performance Index.

**UNIT - II:** Basic Indicators of development - Health nutrition, demography and employment - Transport and communication - agriculture - Industry - foreign Trade Housing leisure and culture sustainable development indicators - genuine progress indicators.

**UNIT - III:** Global Hunger Index - Happiness Planet Index

**UNIT - IV:** Human Development Index - Dimension - Methodology - Human Poverty Index - Dimension and Methodology - Gender Related Development Index - Methodology - Wealth Index - Health Index - Education Index.

**UNIT - V:** Development with Human Face - Global Investment Index - Global Diseases Index - Global Corruption Index - Global innovation Index.

**Text Books**

1. Gol (2010) 'Millennium Development Goals - India Country Report 2009', Mid term Statistical Appraisal.
2. Gol, Planning Commission (2012-2017), 12<sup>th</sup> Five Year Plan, Delhi
3. IMF (International Monetary Fund) (2014) 'World Economic Outlook Database, www.imf.org
4. UNESCO Institute for Statistics (2011) 'Global Education Digest 2011', Montreal.
5. WHO (World Health Organization (2013) 'Global Health Observatory', www.who.int/entity/

**References**

1. UNDP (2019) 'Human Development Report', United Nations, Geneva.
2. World Bank (2019) 'Social Development Indicators', World Bank, Washington.
3. UN Report (2018) 'Millennium Development Goals and Sustainable Development Goals'
4. Padmanabhan Nair (Ed) (2006) 'Human Development Index - An introduction, Icfai University, Hyderabad.

Outcomes	PSO1	PSO2	PSO3	PSO4
CO1	3	2	3	2
CO2	3	2	2	3

**MODULAR COURSES - 21ECOP03MX  
BUDGET ANALYSIS**

**Semester : III**  
**Course Code : 21ECOP03M2**

**No. of Credits: 2**  
**No. of Hours: 32**

**Objective**

1. To expose the students on various concepts in budget and help students to critically look at budget components.

**Specific Course Objectives of learning**

1. To gain clarity in budget related concepts and terms.
2. To recognize the role and importance of budget in country.
3. To understand and analyze Union and State budget.
4. To prepare budget for given set of data.

**Specific Course Outcomes**

1. Gaining clarity in concepts and terms of budget and their uses.
2. Examining union and state budgets.
3. Preparing budget for a set of data.

**UNIT - I:** Need and objectives of budget - Economic planning - Programme implementation - Ex ante and Ex post Evaluation

**UNIT - II:** Budget - Sources of revenue and modes of expenditure - How one Re comes - How one Re goes - Concept of deficit - Primary, secondary, fiscal deficit etc - Economic survey.

**UNIT - III:** Balanced - Surplus and Deficit budgets - Consequences - Annual budget - Quinquennial and Decadal budget.

**UNIT - IV:** Procedures - Coverage - Terms of References - Input from Economic Surveys - Approval and Implementation of budget.

**UNIT - V:** Budget and Indian Economy - Goal - Achievements - Issues and Challenges.

**Text Books**

1. Musgrave, R.A. (1959) 'The Theory of Public Finance', McGraw Hill, Kogakhusa, Tokyo.
2. Musgrave, R.A. and P.B. Musgrave (1976) 'Public Finance in Theory and Practice', McGraw Hill Kogakusja, Tokyo.
3. Tyagi, BP and Singh, HP (2019) 'Public Finance' Jai Prakash Nath & Co, Delhi.

**References**

1. Government of India: Budget in India 2017-18, 'Ministry of Finance', Delhi.
2. Atkinson, A.B. and J.E. Stiglitz (1980) 'Lectures on Public Economics', Tata McGraw Hill, New York.
3. Buchanan, J.M. (1970) 'The Public Finances', Richard D. Irwin, Homewood.
4. Sury M.M., (2003) 'India: Central Government Budgets 1947-48 to 2019-2020', Indian Tax Foundation, Delhi.

Outcomes	PSO1	PSO2	PSO3	PSO4
CO1	3	2	2	2
CO2	3	2	3	2
CO3	3	2	3	2

**MODULAR COURSES - 21ECOP03MX  
PARTICIPATORY RURAL APPRAISAL**

**Semester : III**  
**Course Code : 21ECOP03M3**

**No. of Credits: 2**  
**No. of Hours: 32**

**Objective**

1. To enable the students for understanding a novel method for data collection

**Specific Course Objective of learning**

1. To understand principles of participatory
2. To identify the issues and problems the gross root level using PRA tools
3. To develop skills for preparing reports and action plans based on PRA.

**Specific Course Outcomes**

1. Knowing the different components of PRA
2. Understanding the importance of peoples participation in development
3. Using PRA tools for obtaining data.
4. Writing PRA based reports.

**UNIT - I:**PRA Genesis - definition and principles - Participation meaning - why Participation? Ladder of People's Participation - Advantages and disadvantages of Participation.

**UNIT - II:**Sources of PRA - Survey - Rural Development Tourism - Participation Action Research - PRA - Features and limitation

**UNIT - III:**Emergence of PRA - First, Second and Third Phases - Resource model of PRA - Dos and Don'ts of PRA.

**UNIT - IV:**Field Exercise: social mappings - Transect time line - trend analysis - mobility map Resource mapping - seasonal calendar - problem analysis- Venn diagram - Flow diagram- Daily schedule - Wealth Ranking - Pair wise ranking - Matrix ranking - force field analysis - SWOT analysis - Body Mapping.

**UNIT - V:** Participatory modeling - meaning - Participants - Procedure - Application.

**Text Books**

1. Narayanasamy.N (2013) 'Participatory Rural Appraisal: Text and Cases', Sage Publications, Delhi.

**Reference Books**

1. Luigi Cavestro (2010) 'P.R.A.Participatory Rural Appraisal Concepts Methodologies and Techniques'Universita' DelgliStudi di Padova Facolta' Agraria, Dipartimentoterritorio E SistemiAgro-Forestali.
2. World Bank (2003) 'Participatory Rural Appraisal', Washington.
3. Simon Adebo (2000) 'Training Manual on Participatory Rural Appraisal'.
4. Peace Corps (2005) 'PACA - Using Participatory Analysis for Community Action', Idea Book, Information Collection and Exchange Publication no.M0086.

Outcomes	PSO1	PSO2	PSO3	PSO4
CO1	3	3	3	3
CO2	2	2	2	2
CO3	3	3	2	1
CO4	3	2	3	2

**MODULAR COURSES - 21ECOP04MX  
RURAL RESOURCE MAPPING**

**Semester : IV**  
**Course Code : 21ECOP04M1**

**No. of Credits: 2**  
**No. of Hours: 32**

**Objective**

1. To train the students in methods of rural resources assessment, analysis and in documentation of them.

**Specific Objectives of Learning**

1. To apply appropriate tools and techniques for assessing natural resources and identify livelihood opportunities/viable business.
2. To document the local resource based employment and income-Generation opportunities.

**Specific Course Outcomes**

1. Identifying the rural resources.
2. Applying the tools for resources assessment through people's participation.
3. Preparing action plan for village development based on the availability of resources

**UNIT - I :**Rural Resources - Meaning - Types - Importance - Common Property Resources - Meaning, features - Problems - Tragedy of common.

**UNIT - II:** Appraisal and assessment of natural, physical, social, human, financial resources (Social Mapping, Resource Mapping, transect, time line matrix ranking, inventory of skills and opportunities).

**UNIT - III:** Appraisal and assessment of utilization pattern of different resources (Venn diagram, linkages, seasonal diagram-casual and impact diagram, focus group discussion).

**UNIT -IV:** Identification and documentation of livelihood and viable business opportunities (Ranking, Scoring, Matrix, Focus group discussion).

**UNIT -V:** Village Visit - Identification of resources and business opportunities - Application and Assessment Tools - Preparation of report with evidences.

**Note:** This is a field based modular course. The students of MA (Economics) Programme shall undergo this course which carries 2 credits.

**Text Books**

1. Narayanasamy.N (2013) 'Participatory Rural Appraisal: Text and Cases', Sage Publications, Delhi

**References**

1. Luigi Cavestro (2010) 'P.R.A.Participatory Rural Appraisal Concepts Methodologies and Techniques' Universita' DelgliStudi di Padova Facolta' Agraria, Dipartimentoterritorio E SistemiAgro-Forestali.
2. Peace Corps (2005) 'PACA - Using Participatory Analysis for Community Action', Idea Book, Information Collection and Exchange Publication no.M0086.
3. Simon Adebo (2000) 'Training Manual on Participatory Rural Appraisal'.
4. World Bank (2003) 'Participatory Rural Appraisal', Washington.

Outcomes	PSO1	PSO2	PSO3	PSO4
CO1	3	2	2	2
CO2	2	2	2	2
CO3	2	3	2	3

## ENVIRONMENTAL IMPACT ASSESSMENT

Semester : IV  
Course Code :21ECOP04M2

No. of Credits: 2  
No. of Hours: 32

### Objective

To expose the students on various concepts in environmental impact.

#### Specific Course Objectives of learning

1. To understand the concepts in EIA.
2. To identify the causes and impact of Environmental.
3. To make an assessment of environmental impact.

#### Specific Course Outcomes

1. Understanding and hand long the concepts of EIA.
2. Identifying the causes and consequences of Environmental pollution.
3. Conducting EIA studies.

**Unit I:** Basic concept of EIA: Elements of EIA, - factors affecting E-I-A, Preparation of Environmental Base map, Classification of environmental parameters. E I A Methodologies: introduction, Criteria for the selection of EIA Methodology, E I A methods, impact of Development Activities and Land use: soil and ground water, Air and Air pollution sources, Air pollution impact on Vegetation and wildlife, impact of deforestation - causes and effects of deforestation.

**Unit II:** Environmental Audit: objectives, types, stages - preparation of Audit Report.

#### Text Books

1. Dutt, A., Dutta, S and Pandey (2005): **Environmental Economics** APH Publishing Corporation, New Delhi.
2. Karpagam. M (1999): **Environment Economics A Text Book**, Sterling, Chennai.
3. Sankar. U.: () **Environment Economics**, Oxford University Press, New Delhi.
4. Seb Gupta, Ram Prasad (2001): **Ecology and Environment: An Approach to Sustainable Development**, Oxford University Press, New Delhi.
5. Varadarajan S. and Elangovan S. (1992): **Environmental Economics**, SPEED, Madurai.

#### Reference Books

1. Bhattacharya N. Rabindra (Ed.) (2001): **Environmental Economics: An Indian Perspective**, Oxford University Press, New Delhi.
2. Citizen Report on Environment, (2014) First Citizen's Report on Environment, Centre for Science and Environment, New Delhi.
3. Common, M. (1996): **Environmental and Resource Economics: An Introduction** Longman, England.
4. Tom Tietenberg (2003): **Environmental and Natural Resource Economics**, Pearson, Education, New Delhi.

Outcomes	PSO1	PSO2	PSO3	PSO4
CO1	2	3	2	2
CO2	3	2	3	2
CO3	3	3	2	2

**MODULAR COURSES - 21ECOP04MX  
RURAL ENERGY ASSESSMENT**

Semester : IV  
Course Code :21ECOP04M3

No. of Credits: 2  
No. of Hours: 32

**Objective**

To prepare the students to conduct Rural Energy Assessment survey and report.

**Specific Course Objectives of learning**

1. To gain skills in conducting rural energy assessment survey.
2. To prepare report based on Rural Energy Assessment survey.

**Specific Course Outcomes**

1. Conducting and reporting survey on rural energy of a given village.

Group of Students (Maximum of 5 to 6) will be provided to undergo a 100% Energy related survey in a selected village panchayat and analyze the present energy consumption and the future energy requirement. Based on the survey report the student must submit a Detailed Project Report (DPR) incorporating all the policies and schemes of the Government to be implemented in the selected village which will enable to create a 'Model Energy Village'.

**Text Books**

1. Agarwal, S.K. (1985): **Environment and Natural Resources Economics**, Scott Foresman & Co., London.
  2. Common, M. (1985): **Environmental and Resource Economics**, Longman, London.
- Karpagam, M. (1991): **Environmental Economics**, Sterling, New Delhi

**Reference Books**

1. David Pearct et al., (1990): **Sustainable Development - Economics and Environment in the Third World**, Earths Can Publications, London.
2. TERI (2015): **Teri Energy Data Directory and Year Book 2014-15**, The Energy Research Institute, New Delhi.

Outcomes	PSO1	PSO2	PSO3	PSO4
CO1	3	2	3	3



## VALUE ADDED COURSE - 21ECOPOVAX

### USE AND ABUSE OF RESOURCES

Semester : III  
Course Code : 21ECOPOVA2

No. of Credits: 2  
No. of Hours: 32

#### Objective

1. To train the students in rural resources assessment, analysis and documentation of them.

#### Specific Objectives of Learning

1. To apply appropriate tools and techniques for assessing natural resources and identify livelihood opportunities/viable business.
2. To understand the concepts of natural Resources
3. To document the local resource based employment and income-Generation opportunities.
4. To know the environmental and social issues in the global context
5. To analyze the changes in the global environmental relating policy and regulation

#### Specific Course Outcomes

1. Identifying the rural resources.
2. Applying the tools for resources assessment through people's participation.
3. Preparing action plan for village development based on the availability of resources.
4. Narrating the environmental regulation for creating environmental ethics.
5. Assessing the environmental management Paradigms and Environment Policy and Protection Act

#### UNIT - I :INTRODUCTION TO NATURAL RESOURCES (6hrs)

Natural Resources - Meaning - Types - Importance - Common Property Resources - Meaning, features - Problems - Tragedy of common.

#### UNIT - II: NATURAL RESOURCE CONSERVATION (6hrs)

Resource Conservation, Preservation, Exploitation: Perceptions of Natural Resources, Ecology, Biomass

#### UNIT - III: NATURAL RESOURCE MANAGEMENT (7hrs)

Natural Resource Management- Land, Forest, Water, Air, Mineral - Wet Land- control mechanism - Regulating mechanism- Water conservation- Rainwater harvesting - Watershed management.

#### UNIT -IV: SOCIAL ISSUES AND ENVIRONMENT AND FUNCTIONS (7hrs)

Social Issues and the Environment- Rural and Urban Problems Related to energy- Environmental Ethics - Resource Consumption - Equity- Functions of Environment

#### UNIT -V: MANAGEMENT PARADIGMS: (6hrs)

Resource management the evolution - Resource conflicts: Resource extraction, access and control system. Resource Management Process- Planning - Organizing- Implementing, Controlling and Evaluation- Environment Policy and Protection Act

#### Text Books

1. Narayanasamy.N (2013) 'Participatory Rural Appraisal: Text and Cases', Sage Publications, Delhi
2. Francois Ramade (1984) 'Ecology of Natural Resources' John Wiley & Sons Ltd.

#### References

1. Luigi Cavestro (2010) 'P.R.A.Participatory Rural Appraisal Concepts Methodologies and Techniques' Universita' DelgliStudi di Padova Facolta' Agraria, Dipartimentoterritorio E SistemiAgro-Forestali.
2. Peace Corps (2005) 'PACA - Using Participatory Analysis for Community Action', Idea Book, Information Collection and Exchange Publication no.M0086.
3. Simon Adebo (2000) 'Training Manual on Participatory Rural Appraisal'.
4. World Bank (2003) 'Participatory Rural Appraisal', Washington.
5. Rajalakshmi. N and DhulasiBirundha (1994) 'Economic Analysis of Environment', Allied Publishers, Ahmedabad.
6. Singh G.N (Ed.) (1991) 'Environmental Economics', Mittal Publications, Delhi.
7. Tom Tietenberg (2003) 'Environmental and Natural Resource Economics', Pearson, Education', Delhi.

Outcomes	PSO1	PSO2	PSO3	PSO4
CO1	3	3	3	3
CO2	2	2	3	2
CO3	2	3	2	3
CO4	3	3	2	2
CO5	3	3	3	3

## DEVELOPMENT AND SOCIAL DYNAMISM

**Semester:**

**No. of Credits: 2**

**Course Code: 21ECOP0VA3**

**No. of Hours: 32**

### Objectives

To acquire knowledge about the development and social dynamism.

### Specific course objectives of learning

1. Students would have learned social dynamism of development.
2. The students understand various conceptual framework on social dynamism.
3. To examine the social responsibility.
4. To know about the issues in development and social dynamism.
5. To understand the related policy issues on development and social dynamism.

### Specific Course Outcomes

1. Integrating the relationship between developments of social dynamism.
2. Rendering knowledge on theories and concept on social dynamism.
3. Recognizing the social responsibility.
4. Gaining knowledge on challenges in development of social dynamism.
5. Designing the policy framework for social dynamism of development.

### Unit I Introduction

(6 hrs)

Development: meaning – indicators - determinants – Social dynamism: definition– types - importance – relationship between development and social dynamism.

### Unit II Concepts and theories

(6 hrs)

Social dynamism: Culture, leadership, power and social relations within households, community and across societal groups – Community action theory and social network theory.

### Unit – III Social Responsibility

(6hrs)

Objectives - Scope - Need and Significance –Environmental aspects of social responsibility – sustainable development - Corporate Social Responsibility and development.

### Unit – IV Challenges of Development and Social Dynamism

(7 hrs)

Unemployment – Poverty–Social conflicts – political flux–Social evil habits: alcoholism, drug addiction and crimes - social disadvantages and impact on economic development.

### Unit - V Policies for Development and Social Dynamism

(7hrs)

Health care, education, familywelfare service – Youth development - Rural development programmes – objectives – strategies – MGNREGS – NRHM – SGSY and PMRY.

### Text Books

1. Appadurai and Arjun (1997), Modernity At Large: Cultural Dimensions of Globalization. Oxford University Press, New Delhi.
2. DeSouza, P.R (2000), Contemporary India-Transitions, Sage publication, New Delhi.

### Reference Books

1. Alexander K.C. and Kumaran, K.P (1992), Culture and Development, Sage publication, New Delhi.
2. Pais and Richard (2010), Social Problems in India, Mangala Publications, Mangalore.

Outcomes	PSO1	PSO2	PSO3	PSO4
CO1	2	2	2	3
CO2	3	2	3	3
CO3	2	2	2	3
CO4	3	3	3	2
CO5	3	3	3	2

**The Department of Economics offers the following Allied Courses to other  
Departments**

**ELEMENTS OF ECONOMICS**

**Semester** : II  
**Course Code** : 21ECO102A1

**No .of Credits:** 4  
**No. of Hours:** 64

**Objective**

To enable the students understand the basic concepts and theories of economics.

**Specific Course Objectives of Learning**

1. To understand the basic concepts of economics.
2. To gain the knowledge on decision making process of economics actors.
3. To know the knowledge of production and market structure.
4. To learn the macroeconomic indicators of the country.
5. To study the macroeconomic policies for economic development of a nation.

**Specific Course Outcomes**

1. Explaining the basic concepts of economics.
2. Analyzing the consumer behaviour.
3. Understanding the knowledge of production and marketing strategies.
4. Applying the macroeconomic indicators of the country.
5. Understanding the macroeconomic policies for an economy.

**UNIT- I: INTRODUCTION OF ECONOMICS**

**(10 Hrs)**

Definitions of Economics: Wealth, Welfare, Scarcity and Growth - Distinction between Microeconomics and Macroeconomics - Basic Concepts of Economics - Production Possibility curve.

**UNIT- II: CONSUMER BEHAVIOUR**

**(14 Hrs)**

Utility Theory: Law of Diminishing Marginal Utility - Law of Equi-Marginal utility - Consumer's Surplus - Indifference Curve - Demand analysis - Elasticity of Demand - Supply analysis.

**UNIT- III: PRODUCTION FUNCTION AND MARKET STRUCTURE**

**(14 Hrs)**

Production Function: Meaning - Law of Variable Proportion - Laws of Returns to Scale - Cost Function - Revenue Function - Market Structure: Perfect Market - Monopoly - Monopolistic.

**UNIT- IV: NATIONAL INCOME**

**(14Hrs)**

Circular Flow of Income - Concepts and Measurements of National Income - Aggregate Demand and Aggregate Supply - Effective Demand - Consumption Function - Investment Function - Multiplier - Acceleration - Super Multiplier.

**UNIT - V: MACROECONOMIC POLICY**

**(12 Hrs)**

Business Cycle - Meaning of Inflation - Inflationary Gap - Types of Inflation - Causes of Inflation - Measures to Control Inflation - Deflation - Monetary Policy - Fiscal Policy - Balance of Payments - Exchange Rate.

**Text Book**

1. Gregory Mankiw (2016) 'Principles of Microeconomics, CBS Publishers, Delhi.
2. Gregory Mankiw (2016) 'Macroeconomics', CBS Publishers, Delhi.
3. Koutsoyiannis A (1979) 'Modern Microeconomics', Macmillan Press, London.
4. Salvatore Dominic (2012) 'Micro Economic Theory', Tata McGraw Hill, Delhi.

**References**

1. Dwivedi D.N., (2010), 'Macro Economics: Theory and Policy', Tata McGraw Hill, Delhi.
2. Gravelle H and R. Rees (2004), Microeconomics, Pearson Education, 3rd Edition.
3. Richard T. Froyen (2013) 'Macroeconomics: Theories and Policies, Pearson Education, New Delhi.
4. Sen A. (1999), Microeconomics: Theory and Application, Oxford University Press, Delhi.
5. Varian H.R. (2000), Microeconomic Analysis, W.W. Norton, New York.

## INDIAN ECONOMY

Semester : III  
Course Code : 21ECO103A2

No. of Credits: 4  
No. of Hours: 64

### Objective

To make the students understand the structure and development of Indian economy,

### Specific Course Objectives of Learning

1. To understand the nature and structure of Indian economy.
2. To study the economic planning in Indian economy.
3. To realize the significance of agriculture sector of economy.
4. To learn the industrial development in India.
5. To examine the budget and economic policy in India.

### Specific Course Outcomes

1. Examining the status of Indian economy.
2. Evaluating the performance of five year plans in India.
3. Assessing the agricultural sector in India.
4. Analyzing industrial sector in Indian economy.
5. Discussing economic policy and development of India.

### UNIT - I: INDIA AS A DEVELOPING ECONOMY (12 Hrs)

Economic Growth and Economics Development - Meaning of an Under Developed Economy - Basic Characteristics of Indian Economy - Major Issues of Developing Economy - India as a Mixed Economy - HDI - Sustainable Development.

### UNIT - II: INDIAN ECONOMIC PLANNING (12 Hrs)

Rationale, Futures and Objectives of Planning - Historical Review of Planning in India Planning Commission - National Development Council - Finance Commissions - Five Year Plans in India - Achievements and Failures of Economic Planning in Indian Economy - NITI Aayog.

### UNIT - III: INDIAN AGRICULTURE (14 Hrs)

Role of Agriculture in Indian Economy - Present Status of Indian Agriculture - Progress of Agriculture under Five Year Plans - Green Revolution - Agricultural Finance - National Commission on Farmers - Doubling farmer's income - Impact of WTO on Indian Agriculture.

### UNIT - IV: INDUSTRIAL DEVELOPMENT IN INDIA (14 Hrs)

Role of Industrialization in Indian Economy - Industrial Pattern during the Five Year Plans in India - Industrial Policy - Problems of Industrial Development - Some Major Industries - MSMEs - Industrial Finance - Industrial Sickness.

### UNIT - V: BUDGET AND ECONOMIC POLICY (12 Hrs)

Budget - Revenues and Expenditures of the Central Government - Black Money - Corruption - New Economic Policy (LPG) - Demonetization - Goods and Service Tax.

### Text Books

1. Gaurav Datt and Ashwani Mahajan C (2016), Datt and Sundaram's 'Indian Economy', S. Chand and Company Pvt. Ltd., Delhi.
2. Mishra and Puri, (2005) 'Indian Economy', Himalaya Publishing House, Delhi.
3. Brahmananda, P.R. and V.R. Panchmukhi (2001) 'Development Experience in the Indian Economy: Inter-State Perspectives', Delhi.

### References

1. Basu Kaushik (2004) 'India's Emerging Economy: Performance and Prospects in the 1990s and Beyond', The MIT Press.
2. Chelliah Raja J. and R. Sudarshan (1999) 'Income, Poverty and Beyond: Human Development in India', Social Science Press, Delhi.
3. Dandekar V.M. (1996) 'The Indian Economy, 1947-92', Vol.II, Sage Publications, Delhi.
4. Dreze, Jean and Sen, Amartya (2002), India: Development and Participation, Oxford University Press, New Delhi.
5. Rangarajan C. (1998) 'Indian Economy: Essays on Money and Finance', UBS, Delhi.

## AGRICULTURAL ECONOMICS

Semester : I  
Course Code : 21ECOP01A1

No. of Credits: 4  
No. of Hours: 64

### Objective

To facilitate the students to obtain a thorough knowledge of and analytical skills issues in agricultural economics, particularly in the Indian context.

### Specific Course Objectives of Learning

1. To understand the role of agriculture in economic development.
2. To gain skills in analyzing issues of diversification, input use and production of agriculture
3. To understand the sources of agricultural finance and their role
4. To examine issues in agricultural economics.

### Specific Course Outcomes

1. Students would have a clear knowledge and gained apparatus in
2. Recognizing problems in Indian agriculture
3. Examining the economic issues in Indian agriculture.
4. Planning and developing strategies for agricultural development.

### UNIT - I: INTRODUCTION TO AGRICULTURAL ECONOMICS (12 hrs)

Agricultural Economics: Definition, Nature and Scope - Traditional Agriculture and Modernization: Sustainable Agriculture and Organic Farming - Interdependence between Agriculture and Industry - Agriculture and Economic Development - Land, Labour and Capital in Agriculture.

### UNIT - II: CROPPING AND DIVERSIFICATION OF AGRICULTURE (12hrs)

Crop Planning - Cropping Intensity, Cropping Pattern and Influencing Factors - problems of Indian Agriculture Diversification -Avenues of Diversification in India: - Dairy, Poultry, Fishery, Sericulture and Horticulture - Farm Budgeting.

### UNIT - III: AGRICULTURAL INPUTS AND PRODUCTION (14hrs)

Land Utilization Pattern - Land Holdings - Sub-division and Fragmentation - Tenancy - Land Reform Measures. Irrigation: Types - Water Management Technologies - Mechanization of Agriculture and its impact- Production Function Analysis in Agriculture.

### UNIT - IV: AGRICULTURAL FINANCE (14hrs)

Need for Agricultural Finance - Non-institutional Sources of Agricultural Finance - Institutional Sources of Agricultural Finance: Cooperative Institutions, Commercial Banks, NABARD, RRBs - Problems in institutional credit for agriculture.

### UNIT - V: AGRICULTURAL MARKETING (12hrs)

Agricultural Marketing: Meaning- Classifications of Agricultural Markets -Marketable Surplus and Marketed Surplus -Defects of Agricultural Marketing - Fluctuations in Agricultural Price -MSP - Agricultural Subsidies- Crop insurance.

### Text Books

1. Bilgrami, S.A.R. (1996) **Agricultural Economics**, Himalayas Publishing House, Delhi.
2. Sadhu and Singh (2013) **Fundamentals of Agricultural Economics**, Himalaya, Delhi.
3. Foster G.W and M.C Leager (2013) **Elements of Agricultural Economics**, AXIS Books (India), Jodhpur
4. Memoria C.B (2006) **Agricultural Problems of India**, Kitab Mahal, Mumbai.
5. Dhingra IC (1982) **Agricultural Economy of India**, Sutan& Chand, New Delhi.

### References

1. Dantwala, M.L. et al., (1991) **Indian Agricultural Development since Independence**, Oxford & IBH, Delhi.
2. GauravDatt and AshwaniMaharaj C (2014), **Datt and Sundaram's IndianEconomy**, S.Chand& Co., Delhi.
3. Government of India, **Economic Survey**, various Years, Mistry of Fnanace, New Delhi.
4. Gulati, A. and T.Kelly (1999) **Trade Liberalization and Indian Agriculture**, Oxford University Press, Delhi.
5. Kahion, A.S. and Tyagi D.D. (1983) **Agriculture Price Policy in India**, Allied Publishers, Delhi.
6. Rao, C.H. Hanumanth (1975) **Agricultural Growth, Rural Poverty and Environmental Degradation in India**, Oxford University Press, Delhi.

## INDIAN ECONOMY

Semester : II  
Course Code : 21ECOP02A2

No. of Credits: 4  
No. of Hours: 64

### Objective

To make the students understand the structure and development of Indian economy,

### Specific Course Objectives of Learning

1. To understand the nature and structure of Indian economy.
2. To study the economic planning in Indian economy.
3. To realize the significance of agriculture sector of economy.
4. To learn the industrial development in India.
5. To examine the budget and economic policy in India.

### Specific Course Outcomes

1. Examining the status of Indian economy.
2. Evaluating the performance of five year plans in India.
3. Assessing the agricultural sector in India.
4. Analyzing industrial sector in Indian economy.
5. Discussing economic policy and development of India.

### UNIT - I: INDIA AS A DEVELOPING ECONOMY (12 Hrs)

Economic Growth and Economics Development - Meaning of an Under Developed Economy - Basic Characteristics of Indian Economy - Major Issues of Developing Economy - India as a Mixed Economy - HDI - Sustainable Development.

### UNIT - II: INDIAN ECONOMIC PLANNING (12 Hrs)

Rationale, Futures and Objectives of Planning - Historical Review of Planning in India Planning Commission - National Development Council - Finance Commissions - Five Year Plans in India - Achievements and Failures of Economic Planning in Indian Economy - NITI Aayog.

### UNIT - III: INDIAN AGRICULTURE (14 Hrs)

Role of Agriculture in Indian Economy - Present Status of Indian Agriculture - Progress of Agriculture under Five Year Plans - Green Revolution - Agricultural Finance - National Commission on Farmers - Doubling farmer's income - Impact of WTO on Indian Agriculture.

### UNIT - IV: INDUSTRIAL DEVELOPMENT IN INDIA (14 Hrs)

Role of Industrialization in Indian Economy - Industrial Pattern during the Five Year Plans in India - Industrial Policy - Problems of Industrial Development - Some Major Industries - MSMEs - Industrial Finance - Industrial Sickness.

### UNIT - V: BUDGET AND ECONOMIC POLICY (12 Hrs)

Budget - Revenues and Expenditures of the Central Government - Black Money - Corruption - New Economic Policy (LPG) - Demonetization - Goods and Service Tax.

### Text Books

1. Gaurav Datt and Ashwani Mahajan C (2016), Datt and Sundaram's 'Indian Economy', S. Chand and Company Pvt. Ltd., Delhi.
2. Mishra and Puri, (2005) 'Indian Economy', Himalaya Publishing House, Delhi.
3. Brahmananda, P.R. and V.R. Panchmukhi (2001) 'Development Experience in the Indian Economy: Inter-State Perspectives', Delhi.

### References

1. Basu Kaushik (2004) 'India's Emerging Economy: Performance and Prospects in the 1990s and Beyond', The MIT Press.
2. Chelliah Raja J. and R. Sudarshan (1999) 'Income, Poverty and Beyond: Human Development in India', Social Science Press, Delhi.
3. Dandekar V.M. (1996) 'The Indian Economy, 1947-92', Vol.II, Sage Publications, Delhi.
4. Dreze, Jean and Sen, Amartya (2002), India: Development and Participation, Oxford University Press, New Delhi.
5. Rangarajan C. (1998) 'Indian Economy: Essays on Money and Finance', UBS, Delhi.

## INDIAN ECONOMY

Semester : II  
Course Code : 21ECO102A1

No. of Credits: 4  
No. of Hours: 64

### Objective

To make the students understand the structure and development of Indian economy,

### Specific Course Objectives of Learning

1. To understand the nature and structure of Indian economy.
2. To study the economic planning in Indian economy.
3. To realize the significance of agriculture sector of economy.
4. To learn the industrial development in India.
5. To examine the budget and economic policy in India.

### Specific Course Outcomes

1. Examining the status of Indian economy.
2. Evaluating the performance of five year plans in India.
3. Assessing the agricultural sector in India.
4. Analyzing industrial sector in Indian economy.
5. Discussing economic policy and development of India.

### UNIT - I: INDIA AS A DEVELOPING ECONOMY (12 Hrs)

Economic Growth and Economics Development - Meaning of an Under Developed Economy - Basic Characteristics of Indian Economy - Major Issues of Developing Economy - India as a Mixed Economy - HDI - Sustainable Development.

### UNIT - II: INDIAN ECONOMIC PLANNING (12 Hrs)

Rationale, Futures and Objectives of Planning - Historical Review of Planning in India Planning Commission - National Development Council - Finance Commissions - Five Year Plans in India - Achievements and Failures of Economic Planning in Indian Economy - NITI Aayog.

### UNIT - III: INDIAN AGRICULTURE (14 Hrs)

Role of Agriculture in Indian Economy - Present Status of Indian Agriculture - Progress of Agriculture under Five Year Plans - Green Revolution - Agricultural Finance - National Commission on Farmers - Doubling farmer's income - Impact of WTO on Indian Agriculture.

### UNIT - IV: INDUSTRIAL DEVELOPMENT IN INDIA (14 Hrs)

Role of Industrialization in Indian Economy - Industrial Pattern during the Five Year Plans in India - Industrial Policy - Problems of Industrial Development - Some Major Industries - MSMEs - Industrial Finance - Industrial Sickness.

### UNIT - V: BUDGET AND ECONOMIC POLICY (12 Hrs)

Budget - Revenues and Expenditures of the Central Government - Black Money - Corruption - New Economic Policy (LPG) - Demonetization - Goods and Service Tax.

### Text Books

1. Gaurav Datt and Ashwani Mahajan C (2016), Datt and Sundaram's 'Indian Economy', S. Chand and Company Pvt. Ltd., Delhi.
2. Mishra and Puri, (2005) 'Indian Economy', Himalaya Publishing House, Delhi.
3. Brahmananda, P.R. and V.R. Panchmukhi (2001) 'Development Experience in the Indian Economy: Inter-State Perspectives', Delhi.

### References

1. Basu Kaushik (2004) 'India's Emerging Economy: Performance and Prospects in the 1990s and Beyond', The MIT Press.
2. Chelliah Raja J. and R. Sudarshan (1999) 'Income, Poverty and Beyond: Human Development in India', Social Science Press, Delhi.
3. Dandekar V.M. (1996) 'The Indian Economy, 1947-92', Vol.II, Sage Publications, Delhi.
4. Dreze, Jean and Sen, Amartya (2002), India: Development and Participation, Oxford University Press, New Delhi.
5. Rangarajan C. (1998) 'Indian Economy: Essays on Money and Finance', UBS, Delhi.

## ENERGY ECONOMICS AND RENEWABLE ENERGY POLICIES

Semester : II  
Course Code : 21ECOP02A1/21REEP02E1

No. of Credits: 4  
No. of Hours: 64

### Objective

1. To make the students to understand the basics of energy economics so as to address to energy problems and issues.

### Specific Course Objectives of Learning

1. To understand the importance of natural resources and energy.
2. To study relationship between energy and development.
3. To gain skills in energy planning and management
4. To document the energy profile.

### Specific Course Outcomes

1. Demonstrating linkage between energy and environment.
2. Analyzing the energy use and institutional framework.
3. Comparing and contrasting between energy and environment
4. Formulating energy planning and demonstrating management
5. Compiling the profile of various energy sources in India

### UNIT - I: BASICS OF ENERGY ECONOMICS (10 hrs)

Natural Resources - Classification - Importance - Role of Natural Resources in Economic Development - Energy Resources - Classification - Properties and Forms of Energy -Energy Economics - Origin, Scope and Nature.

### UNIT - II: ENERGY AND DEVELOPMENT INSTITUTIONS (12 hrs)

Role of Energy in Economic Development - Energy Indicators - Energy Intensity and Energy Elasticity - National and International Comparison - Role of International Institutions - OPEC, IEA, World Energy Council and World Bank.

### UNIT - III: ENERGY NEXUS ENVIRONMENT (12 hrs)

Energy Environment Nexus Crisis - Causes and Consequences - Remedial Measures -Impact of Energy Consumption and Production on Environment with illustrations - Role of Energy Economists in Solving Energy Crises.

### UNIT - IV: ENERGY PLANNING AND MANAGEMENT (15 hrs)

Energy Planning and Energy Conservation - Meaning, Objectives and Importance - Energy Management - Meaning, Objectives and Importance - Recent Developments: Energy Auditing - Energy Accounting - Energy conservation - Energy Pricing and Taxes - Role of Economists in Sustainable Energy Management.

### UNIT - V: INDIA'S ENERGY PROFILE (15 hrs)

Indian Energy Sector - Organizational Structure - Energy Supply sources and trends in production - Energy Demand on sectoral consumption trend - Renewable Energy Sources and Technologies - Renewable Energy Programmes and Policies in India- Green Energy; Scope and Opportunities- Barriers

### Text Books

1. Agarwal, M.C. and Monga, J.R. (1992) 'Economic and Commercial Geography', National Publishing House, Delhi.
2. Agarwal, S.K. (1985) 'Environment and Natural Resources Economics', Scott Foresman & Co., London.
3. Common, M. (1985) 'Environmental and Resource Economics', Longman, London.
4. Karpagam, M. (1991) 'Environmental Economics', Sterling, Delhi.
5. Kneese. A.V and Sweeny, J.L, 1993) 'Handbook of Natural Resource and Energy Economics', North Holland.
6. Richard Eden (1981) 'Energy Economics - Growth, Resources and Policies', Cambridge University Press, London.

### References

1. Anandan M and Ramaswamy S (2016) 'Oil Economics' MJP Publishers, Chennai.
2. David Pearct et al., (1990) 'Sustainable Development - Economics and Environment in the Third World', Earthscan Publications, London.
3. Munasinghe, M and Meier, P (1993) 'Energy Policy and Modeling', Cambridge University Press, Cambridge.
4. Ramaswamy. S. and Anandan, M., (2019) "Energy Development Issues and Policies" MJP Publishers, New Delhi.
5. TERI (2019) 'Teri Energy Data Directory and Year Book, The Energy Research Institute, Delhi.



## MANAGERIAL ECONOMICS

Semester : I  
Course Code : 21ECOP01A1

No. of Credits: 4  
No. of Hours: 64

### Objective:

- To orient the students on the principles and analytical tools of managerial economics.

### Specific Learning Outcome:

At the end of the course, the students would have gained

- The ability to select and apply tools of managerial economics for business decision making.
- Knowledge on real economic problems and their impact on business efficiency.

### Specific Course Outcomes

- Applying tools of Management economics for business decisions.
- Understanding the relationship between economic problems and business efficiency.

<b>Unit I</b>	<b>Introduction to Managerial Economics</b>	<b>(10 hrs)</b>
	Nature - Scope - Basic concepts in Managerial Economics - Role of Managerial Economists - Objectives of firm.	
<b>Unit II</b>	<b>Theory of Demand and Supply</b>	<b>(14 hrs)</b>
	Law of demand - Elasticity of demand - Use of elasticity of demand in managerial decisions - Demand Forecasting, Methods of demand forecasting for new products and established products - Law of Supply and Elasticity of Supply - Demand Supply Interaction.	
<b>Unit III</b>	<b>Theory of Production</b>	<b>(14 hrs)</b>
	Production function-Types of production function, Isoquant and its properties - Law of Variable proportions-Law of Returns to Scale-Cost and Revenue functions - Cost and Revenue Curves - Break Even Analysis and its uses in Managerial Economics.	
<b>Unit IV</b>	<b>Market Structure and Price Determination</b>	<b>(12 hrs)</b>
	Market - Definition - Conditions - characteristics - Price determination under Perfect competition - Monopoly - Monopolistic Competition - Basics of Oligopoly.	
<b>Unit V</b>	<b>Macro Economic Problems</b>	<b>(14 hrs)</b>
	Business cycle - features - phases of business cycle - Inflation - Factors causing Inflation - Measures to control business cycle and inflation.	

### References:

- Ahuja, H.L. (2014). **Managerial Economics: Analysis of Managerial Decision Making**, 8/e; S. Chand & Company Limited. New Delhi.
- Dwivedi, D.N (2015), **Managerial Economics**: S.Chand and Company Ltd., New Delhi.
- Geetika; Ghosh. Piyali, Choudhury, Purba Roy (2013). **Managerial Economics**, 2/e; New Delhi: Tata McGraw-Hill.
- Gupta SS (2011), **Managerial Economics**: Tata Mc Graw Hill Education, New Delhi.
- Jhingan, M.L., and Stephen, J.K (2009), **Managerial Economics**, Vrinda Publications (P) Ltd., New Delhi.
- Maheswari, Y. (2012). **Managerial Economics**, Prentice Hall India, New Delhi.
- Varshney R.L and Maheshwari K.L (2006), **Managerial Economics**, Sultan Chand and Sons, New Delhi.

**ELECTIVES- GENERIC - 21ECOP02GX  
INDIAN ECONOMY**

Semester : II  
Course Code : 21ECOP02G1

No. of Credits: 3  
No. of Hours: 48

**Objective**

To make the students understand the structure and development of Indian economy,

**Specific Course Objectives of Learning**

1. To understand the nature and structure of Indian economy.
2. To study the economic planning in Indian economy.
3. To realize the significance of agriculture sector of economy.
4. To learn the industrial development in India.
5. To examine the budget and economic policy in India.

**Specific Course Outcomes**

1. Examining the status of Indian economy.
2. Evaluating the performance of five year plans in India.
3. Assessing the agricultural sector in India.
4. Analyzing industrial sector in Indian economy.
5. Discussing economic policy and development of India.

**UNIT - I: INDIA AS A DEVELOPING ECONOMY**

**(10Hrs)**

Economic Growth and Economics Development - Meaning of an Under Developed Economy - Basic Characteristics of Indian Economy - Major Issues of Developing Economy - India as a Mixed Economy - HDI - Sustainable Development.

**UNIT - II: INDIAN ECONOMIC PLANNING**

**(10Hrs)**

Rationale, Futures and Objectives of Planning - Historical Review of Planning in India Planning Commission - National Development Council - Finance Commissions - Five Year Plans in India - Achievements and Failures of Economic Planning in Indian Economy - NITI Aayog.

**UNIT - III: INDIAN AGRICULTURE**

**(10Hrs)**

Role of Agriculture in Indian Economy - Present Status of Indian Agriculture - Progress of Agriculture under Five Year Plans - Green Revolution - Agricultural Finance - National Commission on Farmers - Doubling farmer's income - Impact of WTO on Indian Agriculture.

**UNIT - IV: INDUSTRIAL DEVELOPMENT IN INDIA**

**(10Hrs)**

Role of Industrialization in Indian Economy - Industrial Pattern during the Five Year Plans in India - Industrial Policy - Problems of Industrial Development - Some Major Industries - MSMEs - Industrial Finance - Industrial Sickness.

**UNIT - V: BUDGET AND ECONOMIC POLICY**

**(8Hrs)**

Budget - Revenues and Expenditures of the Central Government - Black Money - Corruption - New Economic Policy (LPG) - Demonetization - Goods and Service Tax.

**Text Books**

1. Gaurav Datt and Ashwani Mahajan C (2016), Datt and Sundaram's 'Indian Economy', S. Chand and Company Pvt. Ltd., Delhi.
2. Mishra and Puri, (2005) 'Indian Economy', Himalaya Publishing House, Delhi.
3. Brahmananda, P.R. and V.R. Panchmukhi (2001) 'Development Experience in the Indian Economy: Inter-State Perspectives', Delhi.

**References**

1. Basu Kaushik (2004) 'India's Emerging Economy: Performance and Prospects in the 1990s and Beyond', The MIT Press.
2. Chelliah Raja J. and R. Sudarshan (1999) 'Income, Poverty and Beyond: Human Development in India', Social Science Press, Delhi.
3. Dandekar V.M. (1996) 'The Indian Economy, 1947-92', Vol.II, Sage Publications, Delhi.
4. Dreze, Jean and Sen, Amartya (2002), India: Development and Participation, Oxford University Press, New Delhi.
5. Rangarajan C. (1998) 'Indian Economy: Essays on Money and Finance', UBS, Delhi.

## GLOBALIZATION AND WTO: ISSUES AND STRATEGIES

Semester : II  
Course Code :21ECOP02G2

No. of Credits: 3  
No. of Hours: 48

### Objective

1. To enable the students to understand the fundamentals of Globalization and WTO.

### Specific Objectives of Learning

1. To become familiar with process and impact of globalization and functioning of international institutions.
2. To understand the aftermath of WTO

### Specific Course Outcomes

1. Understanding the concept of globalization
2. Gaining knowledge on WTO and its implications
3. Preparing for future challenges of WTO meant for future generations.

### UNIT - I: GLOBALIZATION

(10 hrs)

Globalization - Concept - Advocacy of globalization - Stages and Phases of globalization - Organization and globalization - Role of global managers - Criteria for success.

### UNIT - II: EVOLUTION OF GLOBAL LIBERALIZATION: GATT / WTO

(12 hrs)

GATT: Objectives and Principles - Evolution of GATT - Uruguay Round - WTO: Evolution - Organizational Structure - Objectives - Functions and Principles - WTO Rounds (conferences) of Global trade Negotiations

### UNIT - III: WTO AGREEMENTS

(8hrs)

Features - Trade Related Intellectual Property Rights (TRIPs) Intellectual property Rights, copyrights, Trade marks, Designs and AOA.

### UNIT - IV: IMPACT OF GLOBALIZATION

(8 hrs)

Impact of Globalization on Third World - Countries in terms of Agriculture - Trade and Services - Inequality and Poverty. Globalization and State responses to Globalization - Socio-economic and Political resistance to Globalization - Globalization and its Impact on India.

### UNIT - V: CHALLENGES OF GLOBALIZATION AND WTO

(10 hrs)

Issues in Tariff and non-Tariff Barriers - Trade and Environment - UN conference on Environment and Development - Agenda 21 -Trade in Services - Third world Unity in WTO.

### Text Books

1. Chandran R (2005): **International Business**, Jaico Publishing House, Mumbai.
2. Gaurav Datt and Ashwani Mahajan: (2014) **Datt and Sundaram's Indian Economy**, S.Chand, Delhi.
3. Falendra K. Sudan (2005):**Globalisation and Liberalisation**,Series Publications, Delhi.
4. Francis Cherunilam (2006): **International Economics**, Himalaya Publishing House, Mumbai.
5. Francis Cherunilam (2010): **Business Environment**, Himalaya Publishing House, Mumbai.
6. Gopalsamy. N (1998): **GATT/WTO, TRIPs, TRIMS and Trade in Services**, Wheeler John Publications, Mumbai.
7. Ramakant-sugam (1996): **Globalisation of Indian Economy**,G.Jain Pointer Publishers, Jaipur.
8. Rao, M.B (2001): **WTO and International Trade**, Vikas Publishing, House, Delhi.

## ENTREPRENEURSHIP

Semester : II  
Course Code : 21ECOP02G3

No. of Credits: 3  
No. of Hours: 48

### Objective

1. To enable students acquire theoretical and practical knowledge on Entrepreneurship.

### Specific Course Objectives of Learning

1. To developed aptitude towards entrepreneurship
2. To recognize motivational theories.
3. To assess the business opportunities.
4. To develop the understanding over Business plan.
5. To understand over the entrepreneurial assistance provided by different institutions.

### Specific Course Outcome

1. Developing aptitude towards entrepreneurship
2. Sensitizing the motivational competencies and theories.
3. Attaining on Identification and evaluation of business opportunities.
4. Developing skill for preparation of Business plan.
5. Acquiring skills in selecting business project and preparing a project proposal.

### UNIT - I: INTRODUCTION TO ENTREPRENEURSHIP (10hrs)

Concept - Types - Entrepreneurship as a career - Theories of Entrepreneurship - Growth of Entrepreneurship in India - Role of Entrepreneurship in Economic development - Factors effecting Entrepreneurial growth - Women Entrepreneurship - Rural Entrepreneurship - Social Entrepreneurship - Creativity and Business Ideas.

### UNIT - II: ENTREPRENEURIAL MOTIVATION (10hrs)

Motivation process - Theories of motivation: Maslow, McClelland - Factors motivating entrepreneurs - Major Entrepreneurial Competencies - Entrepreneurial Development programme: Objectives, Contents, Phases - Kakinada Experiment.

### UNIT - III: IDENTIFICATION AND EVALUATION OF BUSINESS OPPORTUNITIES (10hrs)

Sources of project idea - Project selection - Project Appraisal: Economic analysis - Financial analysis - Market analysis, Technical feasibility - Human resource Mobilisation - Management competence.

### UNIT - IV: THE BUSINESS PROJECT FORMULATION AND IMPLEMENTATION (10hrs)

Need for a good business plan - Guidelines for formulation of a project report - Network Analysis - CPM - PERT - Project Implementation - Meaning approaches, steps, Factors and Progress - Evolutions of Project - Common errors in project formulation - Preparation of a Business Plan (individual work).

### UNIT - V: PRACTICAL ASPECTS OF ENTREPRENEURSHIP (8hrs)

Sources of Finance - Ownership structures - Institutional support to Entrepreneurs - Steps for starting an SSI unit - Industrial Sickness: Signals, Symptoms and Corrective Measures.

### Text Books

1. Arya Kumar, (2014) 'Entrepreneurship: Creating and Leading an Entrepreneurial organization', Pearson, Delhi.
2. Batra G.S. (2002) 'Development of Entrepreneurship', Deep & Deep, Delhi.
3. Gupta, C. B. and Khanka, S.S, (1996) 'Entrepreneurship and Small Business Management', S. Chand, Delhi.
4. Gupta, C.B. and Srinivasan, N.P, (1992) 'Entrepreneurial Development', S. Chand, Delhi.
5. Khanka. S.S. (2010) 'Entrepreneurial Development', S.Chand, Delhi.
6. Vasant, Desai, (1992) 'Dynamics of Entrepreneurial Development', Prentice Hall, Delhi.
7. Vinod, Gupta, (1999) 'Formulation of a Project, National Institute for Entrepreneurship Small Business Development', NIESBUD, Delhi.

### References

1. Monica Loss and Bascunan, F.L. (2011) Entrepreneurship Development, Global Vision, Delhi, 2011
2. Robert, D. Hisrich et al. (2013) 'Entrepreneurship', Tata McGrw Hill, Delhi.
3. Wilfret, P. (2013) 'Entrepreneurship in Management', Pearl Books, Delhi.

## ECONOMICS OF GROWTH AND DEVELOPMENT

Semester : II  
Course Code : 21ECOP02G4

No. of Credits: 3  
No. of Hours: 48

### Objective

To survey of mainstream theories of development and growth.

### Specific Course Objectives of Learning

1. To inculcate the desire of learning the development models in economics.
2. To formulate theoretical framework for economic growth.
3. To apply and analyze the growth theories.
4. To demonstrate as development thinking for Economic Policy.
5. To revise various economic development indices.

### Specific Course Outcomes

6. Applying various growth models for solving economics problems
1. Identifying economic theories for promoting sustainable development
2. Utilizing suitable growth models for Indian economic planning
3. Forecasting the suitable technology adaption
4. Compiling various development parameters.

### UNIT - I: ECONOMIC DEVELOPMENT AND GROWTH (10 hrs)

Economic Development - Concepts and approaches - characteristics of under developed economy - Obstacles to economic development - Factors influencing Economic development and growth - Characteristics of modern economic growth - Indian Economic Growth - A Critic.

### UNIT - II: THEORIES OF ECONOMIC DEVELOPMENT - I (10hrs)

Adam smith - J.S.Mill - Karl Marx - Schumpeter - Keynes - Rostow - Nurkse.

### UNIT - III: THEORIES OF ECONOMIC DEVELOPMENT - II (10hrs)

Lewis - Fei-Ranis - Leibenstein - Rosenstein - Rodan's Doctrine of Balanced Growth - Concept of Unbalanced Growth - Dualistic Theory - Myrdal's Theory.

### UNIT - IV: GROWTH MODELS (10hrs)

Harrod-Domar - Kaldor - Joan Robinson - Meades - Solow - Models of Technical Change - Steady-State growth - Mahalanobis Model.

### UNIT - V: MEASURES FOR ECONOMIC DEVELOPMENT - DOMESTIC (8hrs)

Domestic Measures: Capital formation - Human capital formation - Role of State - International Measures: Foreign Trade, Foreign Capital, Indicating FDI - Direction and Sectors and MNCs.

### Text Books

1. Chakraverti, S. (1982) 'Alternative Approaches to the Theory of Economic Growth', Oxford University Press, Delhi.
2. Jhingan M.L (2014) 'Economics of Growth and Development', Himalaya Publishing House, Delhi.
3. Kindleberger, C.P. (1977) 'Economic Development', McGraw Hill, New York.
4. Meier, G.M. (1995) 'Leading Issues in Economic Development', Oxford University Press, New York.
5. Todaro, M.P. (1996) 'Economic Development', Longman, London.

### References

1. Adelman, I. (1961) 'Theories of Economic Growth and Development', Stanford University Press, Stanford.
2. Behrman, S and T.N.Srinivasan (1995) 'Handbook of Development Economics' Vol.3, Elsevier, Amsterdam.
3. Dasgupta, P. (1993) 'An Enquiry into Well being and Destitution', Clarendon Press, Oxford.
4. Sen, A.K. (Ed.) (1990) 'Growth Economics', Penguin, Harmondsworth.
5. Solow, R.M. (2000) 'Growth Theory : An Exposition', Oxford University Press, New Delhi.

## AGRICULTURAL ECONOMICS

Semester : I  
Course Code : 21ECOP02G5

No. of Credits: 3  
No. of Hours: 48

### Objective

To facilitate the students to obtain a thorough knowledge of and analytical skills issues in agricultural economics, particularly in the Indian context.

### Specific Course Objectives of Learning

2. To understand the role of agriculture in economic development.
2. To gain skills in analyzing issues of diversification, input use and production of agriculture
3. To understand the sources of agricultural finance and their role
4. To examine issues in agricultural economics.

### Specific Course Outcomes

5. Students would have a clear knowledge and gained apparatus in
6. Recognizing problems in Indian agriculture
7. Examining the economic issues in Indian agriculture.
8. Planning and developing strategies for agricultural development.

### UNIT - I: INTRODUCTION TO AGRICULTURAL ECONOMICS (12 hrs)

Agricultural Economics: Definition, Nature and Scope - Traditional Agriculture and Modernization: Sustainable Agriculture and Organic Farming - Interdependence between Agriculture and Industry - Agriculture and Economic Development - Land, Labour and Capital in Agriculture.

### UNIT - II: CROPPING AND DIVERSIFICATION OF AGRICULTURE (8 hrs)

Crop Planning - Cropping Intensity, Cropping Pattern and Influencing Factors - problems of Indian Agriculture Diversification -Avenues of Diversification in India: - Dairy, Poultry, Fishery- Farm Budgeting.

### UNIT - III: AGRICULTURAL INPUTS AND PRODUCTION (8 hrs)

Land Utilization Pattern - Land Holdings - Sub-division and Fragmentation - Tenancy - Land Reform Measures. Irrigation: Types - Water Management Technologies - Mechanization of Agriculture - Production Function Analysis in Agriculture.

### UNIT - IV: AGRICULTURAL FINANCE (10 hrs)

Need for Agricultural Finance - Non-institutional Sources of Agricultural Finance - Institutional Sources of Agricultural Finance: Cooperative Institutions, Commercial Banks, NABARD, RRBs - Problems in institutional credit for agriculture - Micro Finance.

### UNIT - V: AGRICULTURAL MARKETING (10 hrs)

Agricultural Marketing: Meaning- Classifications of Agricultural Markets -Marketable Surplus and Marketed Surplus - Defects of Agricultural Marketing -Fluctuations in Agricultural Price - MSP - Agricultural Price Policy - Agricultural Subsidies- Crop insurance.

### Text Books

1. Bilgrami, S.A.R. (1996) **Agricultural Economics**, Himalayas Publishing House, Delhi.
2. Sadhu and Singh (2013) **Fundamentals of Agricultural Economics**, Himalaya, Delhi.
3. Foster G.W and M.C Leager (2013) **Elements of Agricultural Economics**, AXIS Books (India), Jodhpur
4. Memoria C.B (2006) **Agricultural Problems of India**, Kitab Mahal, Mumbai.
5. Dhingra IC (1982) **Agricultural Economy of India**, Sutan& Chand, New Delhi.

### References

1. Dantwala, M.L. et al., (1991) **Indian Agricultural Development since Independence**, Oxford & IBH, Delhi.
2. GauravDatt and AshwaniMaharaj C (2014), **Datt and Sundaram's IndianEconomy**, S.Chand& Co., Delhi.
3. Government of India, **Economic Survey**, various Years, Mistry of Fnanace, New Delhi.
4. Gulati, A. and T.Kelly (1999) **Trade Liberalization and Indian Agriculture**, Oxford University Press, Delhi.
5. Kahion, A.S. and Tyagi D.D. (1983) **Agriculture Price Policy in India**, Allied Publishers, Delhi.
6. Rao, C.H. Hanumanth (1975) **Agricultural Growth, Rural Poverty and Environmental Degradation in India**, Oxford University Press, Delhi.

## ENERGY ECONOMICS

Semester : II  
Course Code : 21ECOP02G6

No. of Credits: 3  
No. of Hours: 48

### Objective

1. To make the students to understand the basics of energy economics so as to address to energy problems and issues.

### Specific Course Objectives of Learning

1. To understand the importance of natural resources and energy.
2. To study relationship between energy and development.
3. To gain skills in energy planning and management
4. To document the energy profile.

### Specific Course Outcomes

1. Demonstrating linkage between energy and environment.
2. Analyzing the energy use and institutional framework.
3. Comparing and contrasting between energy and environment
4. Formulating energy planning and demonstrating management
5. Compiling the profile of various energy sources in India

### UNIT - I: BASICS OF ENERGY ECONOMICS

(10 hrs)

Natural Resources - Classification - Importance - Role of Natural Resources in Economic Development - Energy Resources - Classification - Properties and Forms of Energy -Energy Economics - Origin, Scope and Nature.

### UNIT - II: ENERGY AND DEVELOPMENT INSTITUTIONS

(10hrs)

Role of Energy in Economic Development - Energy Indicators - Energy Intensity and Energy Elasticity - National and International Comparison - Role of International Institutions - OPEC, IEA, World Energy Council and World Bank.

### UNIT - III: ENERGY NEXUS ENVIRONMENT

(10hrs)

Energy Environment Nexus Crisis - Causes and Consequences - Remedial Measures -Impact of Energy Consumption and Production on Environment with illustrations - Role of Energy Economists in Solving Energy Crises.

### UNIT - IV: ENERGY PLANNING AND MANAGEMENT

(10hrs)

Energy Planning and Energy Conservation - Meaning, Objectives and Importance - Energy Management - Meaning, Objectives and Importance - Recent Developments: Energy Auditing - Energy Accounting - Energy conservation - Energy Pricing and Taxes - Role of Economists in Sustainable Energy Management.

### UNIT - V: INDIA'S ENERGY PROFILE

(8 hrs)

Indian Energy Sector - Organizational Structure - Energy Supply sources and trends in production - Energy Demand on sectoral consumption trend - Renewable Energy Sources and Technologies - Renewable Energy Programmes and Policies in India- Green Energy; Scope and Opportunities- Barriers

### Text Books

1. Agarwal, M.C. and Monga, J.R. (1992) 'Economic and Commercial Geography', National Publishing House, Delhi.
2. Agarwal, S.K. (1985) 'Environment and Natural Resources Economics', Scott Foresman & Co., London.
3. Common, M. (1985) 'Environmental and Resource Economics', Longman, London.
4. Karpagam, M. (1991) 'Environmental Economics', Sterling, Delhi.
5. Kneese. A.V and Sweeny, J.L, 1993) 'Handbook of Natural Resource and Energy Economics', North Holland.
6. Richard Eden (1981) 'Energy Economics - Growth, Resources and Policies', Cambridge University Press, London.

### References

1. Anandan M and Ramaswamy S (2016) 'Oil Economics' MJP Publishers, Chennai.
2. David Pearct et al., (1990) 'Sustainable Development - Economics and Environment in the Third World', Earthscan Publications, London.
3. Munasinghe, M and Meier, P (1993) 'Energy Policy and Modeling', Cambridge University Press, Cambridge.
4. Ramaswamy. S. and Anandan, M., (2019) "Energy Development Issues and Policies" MJP Publishers, New Delhi.
5. TERI (2019) 'Teri Energy Data Directory and Year Book, The Energy Research Institute, Delhi.