

# **M.A. ECONOMICS**

**SYLLABUS**  
(with effect from June 2015)



**DEPARTMENT OF ECONOMICS**  
The Gandhigram Rural Institute – Deemed University  
Gandhigram – 624 302 Tamil Nadu

**Department of Economics**  
**The Gandhigram Rural Institute - Deemed University, Gandhigram-624 302**  
**CURRICULUM DESIGN - M.A. ECONOMICS PROGRAMME**  
**(To be offered from the academic year 2015-16 under the CBCS)**

Semester	Category	Course Code	Course Title	No. of Credits	Hours / Week	Duration of ESE (Hours)	Evaluation		Total Marks
							CFA	ESE	
I	Core Courses	15ECOP0101	Micro Economic Analysis	4	4	3	40	60	100
		15ECOP0102	Agricultural Economics	4	4	3	40	60	100
		15ECOP0103	Indian Economy	4	4	3	40	60	100
		15ECOP0104	Quantitative Techniques in Economics	4	4	3	40	60	100
		15APRP0001	Research Methods	4	4	3	40	60	100
	Compulsory Non-Credit Courses	15ENGP00C1	Communication / Soft Skills	-	2	-	50	-	50
		15ECOP01F1	Extension / Field Visit	-	2	-	50	-	50
<b>Total (I)</b>				<b>20</b>	<b>24</b>	<b>-</b>			
II	Core Courses	15ECOP0205	Macro Economic Analysis	4	4	3	40	60	100
		15ECOP0206	Monetary Economics	4	4	3	40	60	100
		15ECOP0207	International Economics	4	4	3	40	60	100
		15APRP0002	Applied Statistics	4	4	3	40	60	100
	Non major electives			4	4	3	40	60	100
	Compulsory Non-Credit Courses	15GTPP0001	Gandhi in Everyday Life	-	2	-	50	-	50
		15ECOP02F2	Extension / Field Visit	-	2	-	50	-	50
<b>Total (II)</b>				<b>20</b>	<b>24</b>	<b>-</b>			
III	Core Courses	15ECOP0308	Development Economics	4	4	3	40	60	100
		15ECOP0309	Public Finance	4	4	3	40	60	100
		15ECOP0310	Econometrics	4	4	3	40	60	100
		15ECOP0311	Environmental Economics	4	4	3	40	60	100
	Major Elective (Choose any one)	15ECOP03EX		4	4	3	40	60	100
	Modular Course	15ECOP03MX		2	2	-	50	-	50
	VPP	15EXNP03V1	Village Placement Programme	2	-	-	50	-	50
<b>Total (III)</b>				<b>24</b>	<b>22</b>	<b>-</b>			
IV	Core Courses	15ECOP0412	Energy Economics	4	4	3	40	60	100
		15ECOP0413	Gandhian Economics	4	4	3	40	60	100
		15ECOP0414	Dissertation*	6	-	12	75	75+50	200
	Modular Course	15ECOP04MX		2	2	-	50	-	50
<b>Total (IV)</b>				<b>16</b>	<b>10</b>	<b>-</b>			
<b>Grand Total (I+II+III+IV)</b>				<b>80</b>	<b>80</b>	<b>-</b>			

\* 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.

### **Major Electives**

1. 15ECOP03E1 - Health Economics
2. 15ECOP03E2 - Project Planning and Evaluation
3. 15ECOP03E3 - Globalization and WTO: Issues and Strategies

### **Non - Major Electives**

1. 15ECOP02N1 - Indian Economy
2. 15ECOP02N2 - Globalization and WTO: Issues and Strategies
3. 15ECOP02N3 - Entrepreneurship
4. 15ECOP02N4 - Development Economics
5. 15ECOP02N5 - Agricultural Economics

### **List of courses for Modular Course 15ECOP03MX (Choose any one)**

1. 15ECOP03M1 - Rural Resource Mapping & Analysis
2. 15ECOP03M2 - Human Development Index and its Applications
3. 15ECOP03M3 - Participatory Rural Appraisal

### **1. List of courses for Modular Course 15ECOP04MX (Choose any one)**

2. 15ECOP04M1 - Budget Analysis
3. 15ECOP04M2 - Environmental Impact Assessment
4. 15ECOP04M3 - Rural Energy Assessment

**The Department of Economics Offers the following Core / Non-Major Elective / Allied Courses to other Departments**

### **Department of Rural Development (PG Programme - M.A (RD)**

1. 15ECOP0102 / 15ECOP00N1 - Agricultural Economics
2. 15ECOP0308 / 15ECOP00N2 - Development Economics

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

1. 15ECOI04B1 - Elements of Economics
2. 15ECOP0308 / 15ECOP00N2 - Development Economics

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

1. 15ECOP02N1 - Energy Economics and Policy

### **Department of Co-operation (UG Programme - B.Com (Co-op)**

1. 15ECOU0101 - Principles of Economics
2. 15ECOU0202 - Indian Economy

## MICRO ECONOMIC ANALYSIS

Semester : I  
Course Code : 15ECOP0101

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

### Objective

To provide the students with the advanced theoretical foundations in micro economic analysis.

### Specific Objectives of Learning

The students would be able

1. To apply the concepts and tools of micro economics in real life situations.
2. To identify micro economic problems and solve them in practical world.

### UNIT I: DEMAND ANALYSIS (11 hrs)

Theories of Demand - Marshallian Utility Analysis - Indifference Curve Analysis - Revealed Preference Theory - Revision of Demand Theory - Consumer's Choice Involving Risk - Indirect Utility Functions (Duality Theory) - Cobweb Theorem.

### UNIT II: THEORY OF PRODUCTION, COSTS AND REVENUE (13 hrs)

Theory of Production - Production Function - Types - Law of Variable Proportions and Returns to Scale - Economies of Scale - Equilibrium of Firm - Isoquants - Expansion Path - Production Possibility Curve - Cost and Revenue analyses.

### UNIT III: MARKET STRUCTURE AND PRICING (16 hrs)

Market - Features - Classification - Equilibrium of Firm and Industry - Pricing under Different Market Conditions: Perfect Competition - Monopoly - Monopolistic Competition - Oligopoly - Monopsony - Bilateral Monopoly.

### UNIT IV: THEORY OF DISTRIBUTION AND WELFARE ECONOMICS (14 hrs)

Marginal Productivity Theory of Distribution: Theories of Rent, Wages, Interest, and Profit - Parato Optimal Conditions - Social Welfare Functions.

### UNIT V: ECONOMICS OF UNCERTAINTY AND COMPETITIVE FIRM UNDER UNCERTAINTY (10 hrs)

Individual Behaviour towards Risk - Risk Aversion - Gambling - Insurance - Risk Pooling and Spreading - Portfolio Selection.

### References

1. Ahuja, H.L (2014): **Advanced Micro Economic Theory**, Sultan Chand & Co., New Delhi.
2. Baumol, W.J. (1982): **Economic Theory and Operations Analysis**, Prentice Hall of India, New Delhi.
3. Ferguson C.E., (1972): **Principles of Economics**, Oxford & IBH Calcutta.
4. Gravelle H and Rees R (2004): **Micro Economics**, Pearson Education, Delhi.
5. Henderson, J.M. and Quandt (1980): **Micro Economic Theory: A Mathematical Approach**, McGraw Hill, New Delhi.
6. Jhingan M.L., (2014): **Advanced Economic Theory**, Allied, Madras.
7. Koutsoyiannis, A (1979): **Modern Microeconomics**, Macmillan Press, London.
8. Mishan E.J., (1969): **Welfare Economics: An Assessment**, North Holland, Amsterdam.
9. Salvatore, Dominic (2012): **Micro Economic Theory**, Tata McGraw Hill, New Delhi.
10. Stigler, G (1996): **Theory of Price**, Prentice Hall of India, New Delhi.

## AGRICULTURAL ECONOMICS

Semester : I  
Course Code : 15ECOP0102

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

### Objective

To provide the students with a detailed treatment of issues in agricultural economics, particularly in the Indian context.

### Specific Objectives of Learning

Students would be able

1. To examine the issues in Indian agriculture.
2. To recognize problems in Indian agriculture
3. To plan for agricultural development.

### UNIT I: AGRICULTURE AND ECONOMIC DEVELOPMENT (10 hrs)

Nature and Scope of Agricultural Economics - Traditional Agriculture and its Modernization: Sustainable Agriculture and Organic Farming - Interdependence between Agriculture and Industry.

### UNIT II: DIVERSIFICATION OF AGRICULTURE AND ALLIED ACTIVITIES (13 hrs)

Crop Planning - Cropping Intensity, Cropping Pattern and Influencing Factors - Diversification - Economics of Allied Agricultural Activities: Dairy, Poultry, Fishery and Sericulture - Problems and Prospects.

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

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

### UNIT IV: AGRICULTURAL FINANCE (12 hrs)

Need for Agricultural Finance - Non-institutional Sources of Agricultural Finance: Money Lenders - Traders Commission Agency - Land lords - Institutional Sources of Agricultural Finance: Cooperative Banks, Commercial Banks, NABARD, RRBs.

### UNIT V: AGRICULTURAL MARKETING (15 hrs)

Agricultural Marketing - Meaning - Classifications of Agricultural Markets - Marketable Surplus and Marketed Surplus - Marketing Channels - Defects of Agricultural Marketing - Lines of Improvement - Fluctuations in Agricultural Price : Causes and Impacts - Price Stabilization: Agricultural Price Policy Agricultural Subsidies.

### References

1. Bilgrami, S.A.R. (1996): **Agricultural Economics**, Himalayas Publishing House, Delhi.
2. Dantwala, M.L. et al., (1991): **Indian Agricultural Development since Independence**, Oxford & IBH, New Delhi.
3. Gaurav Datt and Ashwani Maharaj C (2014), Datt and Sundaram's Indian Economy, S.Chand & Co., New Delhi.
4. Government of India, Economic Survey, Annual (2014), New Delhi.
5. Gualti, A. and T.Kelly (1999): **Trade Liberalisation and Indian Agriculture**, Oxford University Press, New Delhi.
6. Kahion, A.S. and Tyagi D.D. (1983): **Agriculture Price Policy in India**, Allied Publishers, New Delhi.
7. Memoria C.B (2013) Agricultural Problem in India.
8. Rao, C.H. Hanumanth (1975): **Agricultural Growth, Rural Poverty and Environmental Degradation in India**, Oxford University Press, New Delhi.
9. Sadhu and Singh (2013) Fundamentals of Agricultural Economics, Himalaya, New Delhi.

## INDIAN ECONOMY

Semester : I  
Course Code : 15ECOP0103

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

### Objective

To expose the students to different sectors and issues of the Indian Economy.

### Specific Objectives of Learning

The students would have

1. Understood the nature and structure of Indian Economy
2. Gained skills in identifying different issues and examining them in the globalized era.

### UNIT I: INDIA AS A DEVELOPING ECONOMY (10 hrs)

Meaning of an Under Developed Economy - Basic Characteristics of Indian Economy - Major Issues of Developing Economy - India as a Mixed Economy - Sustainable Development - Indicators - Objectives and Approaches.

### UNIT II: ECONOMIC PLANNING IN INDIA (10 hrs)

Objectives of Economic Planning - Financing of the Plans - Achievements and Failures of Economic Planning - Indian Economy: Post Liberalization - Performance and Prospects.

### UNIT III: AGRICULTURAL ECONOMY OF INDIA (15 hrs)

Role of agriculture in the Indian Economy - Programmes and Progress under Five Year Plans - Present Position of Indian Agriculture - National Commission on Farmers - A Review.

### UNIT IV: INDUSTRIAL ECONOMY OF INDIA (14 hrs)

The Role and pattern of Industrialization - Trends in the Growth of Industries in India - Programmes and Schemes for Industrial Development under Five Year Plans - Problems and Prospects.

### UNIT V: INDIAN BUDGET AND PARALLEL ECONOMY (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.

### References

1. Bimal Jalan (2002): *India's Economy in the New Millennium: Selected Essays*, UBSPD, New Delhi.
2. Brahmananda, P.R. and V.R. Panchmukhi (Eds) (2001): *Development Experience in the Indian Economy: Inter-State Perspectives*, Bookwell, Delhi.
3. Chelliah, Raja J. and R. Sudarshan (1999) : *Income, Poverty and Beyond : Human Development in India*, Social Science Press, New Delhi.
4. Dandekar, V.M. (1996) : *The Indian Economy, 1947-92, Vol.II*, Sage Publications, New Delhi.
5. Gaurav Datt and Ashwani Mahajan C: (2014) *Datt and Sundaram's Indian Economy*, S.Chand, New Delhi.
6. Government of India (2007): *India Vision 2020*, Academic Foundation, New Delhi.
7. Mishra and Puri, (2005) *Indian Economy*, Himalaya Publishing House, New Delhi.
8. Prasad C.S., (Ed.) (2005): *India Economic Policies and Performance 1947-48 to 2004-05*, New Century Publications, New Delhi.
9. Rangarajan, C. (1998): *Indian Economy: Essays on Money and Finance*, UBS, New Delhi.
10. Sury M.M., (2003): *India: Central Government Budgets 1947-48 to 2003-04*, Indian Tax Foundation, New Delhi.

## QUANTITATIVE TECHNIQUES IN ECONOMICS

Semester : I  
Course Code : 15ECOP0104

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

### Objective

To train the students in the core areas of quantitative techniques and its application in economic analysis.

### Specific Objectives of Learning

1. The students will become capable of applying quantitative techniques in economic research.
2. They would be able to build quantitative models.

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

Need and scope of quantitative techniques in Economics - Operations of SET and Laws of SET Operations - Number System and Properties.

### UNIT II: ELEMENTS OF ALGEBRA AND ANALYTICAL 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 (15 hrs)

Rules of Differentiation - Partial Derivatives - Total Derivatives - Maxima and Minima - Applications in Economics - Revenue, Costs, Elasticity, Productivity and Equilibrium.

### UNIT IV: OPTIMIZATION PROBLEMS IN ECONOMICS (15 hrs)

Homogeneous Function and their Properties - Euler's Theorem - Application of Cobb-Douglas, C.E.S. and Frontier Production Function and their Properties.

### 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.

### References

1. Allen, R.G.D. (1974): **Mathematical Analysis for Economists**, Macmillan Press and ELBS, London.
2. Baumol, W.J. (1984): **Economic Theory and Operations Analysis**, Prentice Hall, Englewood Cliffs, New Jersey.
3. Chiang, A.C. (1986): **Fundamental Methods of Mathematical Economics**, McGraw Hill, New York.
4. Hadley, G. (1962): **Linear Programming**, Addison Wesley Publishing Co., Massachusetts.
5. Hoog, R.V. and A.T.Craig (1970): **Introduction in Mathematical Statistics**, Macmillan Publishing Co., New York.
6. Mathur, P.N. and R.Bharadwaj (Eds) (1967): **Economic Analysis in Input-Output Research**, Input-Output Research Association of India, Pune.
7. Monga, G.S. (1972): **Mathematics and Statistics for Economists**, Vikas Publishing House, New Delhi.
8. Yamane, Taro (1975): **Mathematics for Economists**, Prentice Hall of India, New Delhi.

## RESEARCH METHODS

Semester : I  
Course Code : 15APRP0001

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

### Objective

To familiarize the students with different methods and techniques of social science research.

### Specific Objectives of Learning

1. The students would have developed scientific outlook towards a social problem.
2. The students would have gained skills in employing methods and techniques of scientific research in their 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.

### UNIT IV: TOOLS OF DATA COLLECTION (15 hrs)

Research Data - Primary and Secondary Sources - Data Collection Methods - Interview, Observation, Focus Group Discussion, Participatory Rural Appraisal and Sociometry - 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.

### References

1. Bandarkar, Wilkinson (1991): **Methods and Techniques of Social Research**, Himalaya Publishing, Bombay.
2. Bhatnagar. O.P., (1990): **Research Methods and Measurements in Behavioural and Social Sciences**, Agri cole Publishing Academy, New Delhi.
3. Goode and Hatt (1992): **Methods in Social Research**, McGraw Hill, New Delhi.
4. Hans Raj (1996): **Theory and Practice in Social Research**, Surjeet Publications, Delhi.
5. Kothari, C.R., (2012): **Research Methodology: Methods and Techniques**, Willey Eastern Ltd., New Delhi.
6. Krishnaswamy O.R., (2010): **Methodology of Research in Social Sciences**, Himalaya Publishing House, Bombay.
7. Shajahan S., (2005) : **Research Methods for Management (Third Edition)**, Jaico Publishing House, Mumbai.  
Young, P.V., (1994): **Scientific Social Survey and Research**, Prentice Hall, New Delhi.
8. Nakeeran and Ravichandran (2012) **Research Methodology**



## COMMUNICATION / SOFT SKILLS

Semester : I  
Course Code : 15ENGP00C1

No. of Credits: 2  
No. of Hours: 30

### Objective

To enhance holistic development of students and improve their employability skills.

### Specific Objectives of Learning

1. To develop inter personal skills and be an effective global oriented team player.
2. To develop professionals with idealistic, practical and moral values.
3. To develop communication and problem solving skills.
4. To re-engineer attitude and understand its influence on behavior.

### UNIT I: SELF ANALYSIS (4 hrs)

SWOT Analysis, Who am I, Attributes, Importance of Self Confidence, Self Esteem.

### UNIT II: ATTITUDE (4 hrs)

Factors influencing Attitude, Challenges and lessons from Attitude. Change Management Exploring Challenges, Risking Comfort Zone, Managing Changing.

### UNIT III: MOTIVATION (6 hrs)

Factors of motivation, Self talk, Intrinsic & Extrinsic Motivators.

### UNIT IV: GOAL SETTING (6 hrs)

Wish List, SMART Goals, Blue print for success, Short Term, Long Term, Life Time Goals. Time Management Value of time, Diagnosing Time Management, Weekly Planner To do list, Prioritizing work.

### UNIT V: CREATIVITY (10 hrs)

Out of box thinking, Lateral Thinking Presentation.

- Common Syllabus for all UG Disciplines offering the Paper on “Communication and Soft Skills”.
- This paper is Compulsory Non-Credit Course.
- 2 Hours per week / 30 Hours per semester.
- 2 Trained Teachers, coming under FEFL, engage the sessions for both UG/PG Courses.
- Course Content will be supplied for a minimum cost.

Semester -I

**15ECOP01F1: Extension / Industrial Visit**

(Course Code: 15ECOP01F1 Credit: 2 Marks: 50)

## MACRO ECONOMIC ANALYSIS

Semester : II  
Course Code : 15ECOP0205

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

### Objective

To equip the students with the theories and issues in macro economics.

### Specific Objectives of Learning

Students would have

1. acquired knowledge in macro economic issues and understood the functioning of macro economic systems and policies.
2. Gained skills in the application and analysis in macro economics.

### UNIT I: NATIONAL INCOME ACCOUNTING (10 hrs)

Circular Flow of Income in Two, Three, and Four Sector Economy - National Income - Different Forms of National Income Accounting - Social Accounting - Balance of Payment Accounting.

### UNIT II: THEORY OF EMPLOYMENT (12 hrs)

Concepts of Employment - Theories of Employment: Classical - Assumptions - Says Law of Market - Criticisms of Classical Theory - Keynesian General Theory of Employment - comparison and contrast between classical and Keynesian contributions.

### UNIT III: CONSUMPTION AND INVESTMENT FUNCTION (15 hrs)

Consumption Function - Keynes Psychological Law of Consumption - Short-run and Long-run - Absolute Income, Relative Income, Lifecycle and Permanent Income Hypotheses - Investment Function - Marginal Efficiency of Capital and Investment - Multiplier and Accelerator.

### UNIT IV: NEO CLASSICAL AND KEYNESIAN SYNTHESSES (15 hrs)

Commodity market equilibrium - Money Market equilibrium - ISLM frame work and analysis - Post-Keynesian Demand for Money: Patinkin, Baumol and Tobins - Friedman and Modern Quantity Theory.

### UNIT V: INFLATION AND TRADE CYCLE (12 hrs)

Inflation - types - Approaches to Inflation: - Classical, Keynesian, Monetarist - Philip's curve analysis - Tobin's Modified Philips Curve - Policies to Control Inflation - Theories of Trade Cycle - Control of Trade Cycle - Supply Side Economics.

### References

1. Abel, A.B and Bernanke B.S., (2001): **Macro Economics**, Pearson Education, New 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. Dwivedi D.N., (2010): **Macro Economics: Theory and Policy**, Tata McGraw Hill, New Delhi.
5. Jhingan M.L (2010 ) **Macro Economics**, Himalaya Publishing House, New Delhi.
6. Reddy, Y.V. (2000): **A Review of Monetary and Financial Sector Reforms in India - A Central Banker's Perspective**, UBSPD, New Delhi.
7. Shapiro, E. (1996): **Macroeconomic Analysis**, Galgotia Publications, New Delhi.

## MONETARY ECONOMICS

Semester : II  
Course Code : 15ECOP0206

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

### Objective

To make the students understand theories and concepts of monetary economics.

### Specific Objectives of Learning

1. The students will become conversant with the theory and practice of monetary economics
2. They will be able to analyze the relation between monetary forces and real forces.
3. They will have complete knowledge on working of different monetary institutions.

### UNIT I: MONEY AND ITS NATURE (12 hrs)

Definition of Money: Functional definition of money - liquidity definition - Evolution, kinds of money and significance of money - Circular flow of money - RBI Approach towards Money.

### UNIT II: VALUE OF MONEY (10 hrs)

Quantity theory of money - Fisher, Cambridge, Keynes -modern quantity theory - Neutrality of Money.

### UNIT III: BANKING AND NON BANKING FINANCIAL INTERMEDIARIES (15 hrs)

Banking: The Central Bank and Monetary Policy in India - Commercial Banks and their functions -Development Banks - investment banking, Merchant Banking - Financial sector reforms in India - Narasimham Committee Report - Non-Banking Financial Intermediaries and their impact on India's economic development.

### UNIT IV: FINANCIAL MARKETS (15 hrs)

Money market and capital market: Money Market - Role, Instruments and agencies - call money market, treasury bill market, commercial bill market including commercial paper, certificate of deposits, discount market - capital market: role - Government securities market - Derivatives: types, uses and pricing of derivatives - primary and secondary market for securities - role of SEBI, role of IRDA.

### UNIT V: INTERNATIONAL MONETARY SYSTEM AND CAPITAL FLOWS (12 hrs)

International Investment: Types, Significance and Growth - Factors affecting International Investment - IMF - World Bank and International Economic Development -- FDI and Portfolio Investment: Types, Significance and Trends.

### References

1. Gibson, Williamson E and Kaufman, George G (1971): **Monetary Economics: Readings on Current Issues**, TATA McGraw Hill Publishing Company Ltd., New Delhi.
2. Johnson, H.G. (1972): **Further Essays in Monetary Economics**, George Allen and Unwin, London.
3. Laidler, D.E.W. (1977): **Demand for Money: Theory and Evidence**, Dum Don Valley, New York.
4. Narendra Jadhav (1993): **Monetary Economics for India**, Macmillan India Ltd., Madras.
5. Pierce, David, G., and Shaw, David .M (1974): **Monetary Economics: Theories, Evidence and Policy**, Butterworths, London.
6. Sudharam K.P.M (2005) **Money Banking and International Trade**, Sulthat & Chand, New Delhi.
7. Sundaram, K.P.M., (2002): **Money, Banking and International Trade**, Sulthan Chand, New Delhi.
8. Venugopal Reddy, Y., (2000): **Monetary and Financial Sector Reforms in India**, UBS Publishers' Distributors Ltd., Chennai.
9. Wrightsman, Dwayne (1971): **An Introduction to Monetary Theory and Policy**, The Free Press, New York.

## INTERNATIONAL ECONOMICS

Semester : II  
Course Code : 15ECOP0207

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

### Objective

To impart the principles and theories of International trade to the students.

### Specific Objectives of Learning

1. The students would be able to examine and apply the theories and principles of international economics in the context of LPG.
2. They would be exposed to different functionalities systems and institutions working in international market.

### UNIT I: THEORY OF INTERNATIONAL TRADE (10 hrs)

Internal and External trade - International Trade: Features, Advantages and Disadvantages. Theories of International Trade: Classical, Absolute advantage, Comparative cost, Modern Theory - General Equilibrium Theory, Theory of Opportunity Cost - Factor Price Equalization Theorem.

### UNIT II: GAINS FROM TRADE AND TERMS OF TRADE (12 hrs)

Gains from trade - Distribution of gains - Terms of trade - meaning, types, equilibrium - Factors - Effects - Reasons for the Unfavourable Terms of Trade - Free Trade Vs Protection - Tariffs - Different Types - Effects - Quotas and their Effects.

### UNIT III: BALANCE OF PAYMENTS (12 hrs)

Definition - Current and Capital Accounts - Equilibrium in Balance of Payments - Disequilibrium Balance of Payments: Types, Causes- Methods of correcting disequilibrium.

### UNIT IV: FOREIGN EXCHANGE (15 hrs)

Foreign exchange market - functions, transactions exchange rate - Determination of exchange rates: Purchasing power parity theory, Modern theory of exchange rate, equilibrium rate of exchange - Flexible Vs fixed exchange rate - Currency Convertibility - exchange control: Objectives, methods and forms - Foreign Exchange Management Act (FEMA)

### UNIT V: INTERNATIONAL FINANCIAL INSTITUTIONS, REGIONAL BLOCKS AND INSTITUTIONS IN EXIM MANAGEMENT (15 hrs)

IMF and IBRD - UNCTAD, ADB, ITC , IFC, EU, SAARC, ASEAN, -- Institutions of International Trade in India: RBI, EXIM Bank, Export Promotion Council, Commodity Boards, Export Houses.

### References

1. Agarwal, M.R. (1979): **Regional Economic Cooperation in South Asia**, S. Chand and Co., New Delhi.
2. Bhagwati, J. (Ed.) (1981): **International Trade**, Selected Readings, Cambridge, University Press, Massachusetts.
3. Cherunilam, Francis (2001): **International Economics**, Tata McGraw Hill Publishing Company Limited, New Delhi.
4. Krugman, P.R. and M. Obstfeld (1994): **International Economics: Theory and Policy**, Glenview, Foresman.
5. Lakshmana Rao, V. (1992): **Essays on Indian Monetary and BoP Experience**, Mittal Publications, New Delhi.
6. Mundell, R., (1968): **International Economics**, Macmillan, New York.
7. Salvatore, D. (1997): **International Economics**, Prentice Hall, Upper Saddle River, N.J., New York.
8. Soderston, B.O., (1991): **International Economics**, The Macmillan Press Ltd., London.
9. Sundaram, K.P.M., (2002): **Money, Banking and International Trade**, Sulthan Chand, New Delhi.

## APPLIED STATISTICS

Semester : II  
Course Code : 15APRP0002

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

### Objective

To train the students in the theory and application of statistical methods.

### Specific Objectives of Learning

1. The students would have gained knowledge in the scientific methods of data collection
2. They would have developed skills in selection and use of statistical methods in the analysis of socio-economic data.

### UNIT I: INTRODUCTION (12 hrs)

Definitions, scope, functions and limitations; sources and types of data; Classification and Tabulation of data; Frequency distributions; Diagrammatic and graphical presentation of data; Institutional arrangements for Statistical Data Collection and Reporting - NSSO - SRS.

### UNIT II: SAMPLING TECHNIQUES (12 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 III: UNIVARIATE MEASURES (10 hrs)

Central Measures, Measures of Dispersion - Measures of Skewness and Kurtosis; one way ANOVA; Index Number and Time Series.

### UNIT IV: BIVARIATE MEASURES (15 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 of Regression Analysis; Association of Attributes-Concept and Measures; Introduction to Higher Level Statistical Analysis- Multiple Correlation and Regression; Discriminant Analysis and Factor Analysis

### UNIT V: PROBABILITY DISTRIBUTIONS AND TESTING OF HYPOTHESIS (15 hrs)

Probability - Concepts - Definitions and Applications - Binomial, Boison and Normal Distributions - Definition, Uses and Applications; Testing of Hypothesis - Type I and Type II Errors; Level of Significance; Parametric and Non-Parametric Tests with applications

### References

1. Agarwal Y.P (1988): **Statistical Methods: Concepts, Applications and Computations**, Sterling Publishers, New Delhi.
2. Bharat Jnhunhunwala (2008): **Business Statistics: A Self Study Text Book**, S.Chan, New Delhi.
3. Gupta C.B (2005): **An Introduction to Statistical Methods**, Vikas Publishers, New Delhi.
4. Gupta S.C. (2000): **Fundamentals of Statistics**, Himalaya Publishing House, Bombay.
5. Gupta S.P (2005): **Statistical Methods**, Chand & Co., New Delhi.
6. Mansfield, Edwin (1980): **Statistical for Business and Economics**, Norton and Co., New York.

## Non-Major Electives

### INDIAN ECONOMY

Semester : II  
Course Code : 15ECOP02N1

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

#### Objective

To expose the students to different sectors and issues of Indian Economy.

#### Specific Objectives of Learning

1. The students would have gained exposure to the functioning of and trends in different sectors in Indian economy.
2. They will become capable of choosing research topics and conducting research in Indian economic issues.

#### UNIT I: INDIA AS A DEVELOPING ECONOMY (10 hrs)

Meaning of an Under Developed Economy - Basic Characteristics of Indian Economy - Major Issues of Developing Economy - India as a Mixed Economy - Sustainable Development - Indicators - Objectives and Approaches.

#### UNIT II: ECONOMIC PLANNING IN INDIA (10 hrs)

Objectives of Economic Planning - Financing of the Plans - Achievements and Failures of Economic Planning - Indian Economy: Post Liberalization - Performance and Prospects.

#### UNIT III: AGRICULTURAL AND INDUSTRIAL ECONOMY OF INDIA (15 hrs)

Role of agriculture in the Indian Economy - Programmes and Progress under Five Year Plans - Present Position of Indian Agriculture - National Commission on Farmers-A Review.

#### UNIT IV: INDUSTRIAL POLICIES (14 hrs)

The Role and pattern of Industrialization - Trends in the Growth of Industries in India - Programmes and Schemes for Industrial Development under Five Year Plans - Problems and Prospects.

#### UNIT V: INDIAN BUDGET AND PARALLEL ECONOMY (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.

#### References

1. Bimal Jalan (2002): *India's Economy in the New Millennium: Selected Essays*, UBSPD, New Delhi.
2. Brahmananda, P.R. and V.R. Panchmukhi (Eds) (2001): *Development Experience in the Indian Economy: Inter-State Perspectives*, Bookwell, Delhi.
3. Chelliah, Raja J. and R. Sudarshan (1999) : *Income, Poverty and Beyond : Human Development in India*, Social Science Press, New Delhi.
4. Dandekar, V.M. (1996) : *The Indian Economy, 1947-92, Vol.II*, Sage Publications, New Delhi.
5. Gaurav Datt and Ashwani Mahajan C: (2014) *Datt and Sundaram's Indian Economy*, S.Chand, New Delhi.
6. Government of India (2007): *India Vision 2020*, Academic Foundation, New Delhi.
7. Mishra and Puri, (2005) *Indian Economy*, Himalaya Publishing House, New Delhi.
8. Prasad C.S., (Ed.) (2005): *India Economic Policies and Performance 1947-48 to 2004-05*, New Century Publications, New Delhi.
9. Rangarajan, C. (1998): *Indian Economy: Essays on Money and Finance*, UBS, New Delhi.
10. Sury M.M., (2003): *India: Central Government Budgets 1947-48 to 2003-04*, Indian Tax Foundation, New Delhi.

## GLOBALIZATION AND WTO: ISSUES AND STRATEGIES

Semester : II  
Course Code : 15ECOP02N2

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

### Objective

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

### Specific Objectives of Learning

1. The students would become familiar with the process and impact of globalization
2. They would have clear understanding over the functioning of international institutions.
3. They would have gained skills in analyzing and reporting the complexities of global issues.

### UNIT I: GLOBALISATION (10 hrs)

Globalizations - Concept - Advocacy of globalization - Stages and Phases of globalization - Organization and globalization.

### UNIT II: EVOLUTION OF GLOBAL LIBERALIZATION: GATT / WTO (15 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 (12 hrs)

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

### UNIT IV: IMPACT OF GLOBALIZATION (15 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 (12 hrs)

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

### References

1. Chandran R (2005): **International Business**, Jaico Publishing House, Mumbai.
2. Falendra K. Sudan (2005): **Globalisation and Liberalisation**, Series Publications, New Delhi.
3. Francis Cherunilam (2010): **Business Environment**, Himalaya Publishing House, Mumbai.
4. Francis Cherunilam (2006): **International Economics**, Himalaya Publishing House, Mumbai.
5. Gaurav Datt and Ashwani Mahajan: (2014) **Indian Economy**, S.Chand, New Delhi, 2014.
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, New Delhi.



## ENTREPRENEURSHIP

Semester : II  
Course Code : 15ECOP02N3

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

### Objective

To enable students acquire theoretical and practical knowledge of Entrepreneurship.

### Specific Objectives of Learning

1. The students would have developed aptitude towards entrepreneurship
2. They would have acquired skills in selecting business project and preparing a project proposal.
3. They would have developed a fair understanding over the entrepreneurial assistance provided by different institutions.

### UNIT I: Introduction to Entrepreneurship (10 hours)

Concept - Types - Entrepreneurship as a career - Theories of Entrepreneurship - Growth of Entrepreneurship in India - Role of Entrepreneurship in Economic development - Factors effecting Entrepreneurial growth

### UNIT II: Entrepreneurial Motivation (10 hours)

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 (9 hours)

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 (10 hours)

Need for a good business plan - Guidelines for formulation of a project report - Network Analysis - Critical Path Method - Common errors in project formulation - Preparation of a Business Plan (individual work)

### UNIT V: Practical Aspects of Entrepreneurship (9 hours)

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

### References

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, New Delhi.
4. Gupta, C.B. and Srinivasan, N.P, (1992) **Entrepreneurial Development**, S. Chand, New Delhi.
5. Khanka. S.S. (2010) **Entrepreneurial Development**, S.Chand, New Delhi.
6. Monica Loss and Bascunan, F.L. (2011) **Entrepreneurship Development**, Global Vision, New Delhi, 2011
7. Robert, D. Hisrich et al. (2013) **Entrepreneurship**, Tata McGrw Hill, New Delhi.
8. Vasant, Desai, (1992) **Dynamics of Entrepreneurial Development**, Prentice Hall, New Delhi.
9. Vinod, Gupta, (1999) **Formulation of a Project**, National Institute for Entrepreneurship Small Business Development, NIESBUD, New Delhi.
10. Wilfret, P. (2013) **Entrepreneurship in Management**, Pearl Books, New Delhi.

## DEVELOPMENT ECONOMICS

Semester : II  
Course Code : 15ECOP02N4

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

### Objective

To offer a survey of mainstream theories of development and growth.

### Specific Objectives of Learning

1. The students would have understood different dimensions of economic development.
2. They would have developed a mental framework on growth and development models.

### 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.

### 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 and MNCs.

### 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. Chakraverti, S. (1982): **Alternative Approaches to the Theory of Economic Growth**, Oxford University Press, New Delhi.
4. Dasgupta, P. (1993): **An Enquiry into Well being and Destitution**, Clarendon Press, Oxford.
5. Jhingan M.L (2014) **Economics of Growth and Development**, Himalaya Publishing House, New Delhi.
6. Kindleberger, C.P. (1977): **Economic Development**, McGraw Hill, New York.
7. Meier, G.M. (1995): **Leading Issues in Economic Development**, Oxford University Press, New York.
8. Sen, A.K. (Ed.) (1990): **Growth Economics**, Penguin, Harmondsworth.
9. Solow, R.M. (2000) : **Growth Theory : An Exposition**, Oxford University Press,
10. Todaro, M.P. (1996): **Economic Development**, Longman, London.

## AGRICULTURAL ECONOMICS

Semester : II  
Course Code : 15ECOP02N5

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

### Objective

To provide the students with a detailed treatment of issues in agricultural economics, particularly in the Indian context.

### Specific Objectives of Learning

Students would be able

4. To examine the issues in Indian agriculture.
5. To recognize problems in Indian agriculture
6. To plan for agricultural development.

### UNIT I: AGRICULTURE AND ECONOMIC DEVELOPMENT (10 hrs)

Nature and Scope of Agricultural Economics - Traditional Agriculture and its Modernization: Sustainable Agriculture and Organic Farming - Interdependence between Agriculture and Industry.

### UNIT II: DIVERSIFICATION OF AGRICULTURE AND ALLIED ACTIVITIES (13 hrs)

Crop Planning - Cropping Intensity, Cropping Pattern and Influencing Factors - Diversification - Economics of Allied Agricultural Activities: Dairy, Poultry, Fishery and Sericulture - Problems and Prospects.

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

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

### UNIT IV: AGRICULTURAL FINANCE (12 hrs)

Need for Agricultural Finance - Non-institutional Sources of Agricultural Finance: Money Lenders - Traders Commission Agency - Land lords - Institutional Sources of Agricultural Finance: Cooperative Banks, Commercial Banks, NABARD, RRBs.

### UNIT V: AGRICULTURAL MARKETING (15 hrs)

Agricultural Marketing - Meaning - Classifications of Agricultural Markets - Marketable Surplus and Marketed Surplus - Marketing Channels - Defects of Agricultural Marketing - Lines of Improvement - Fluctuations in Agricultural Price : Causes and Impacts - Price Stabilization: Agricultural Price Policy Agricultural Subsidies.

### References

10. Bilgrami, S.A.R. (1996): **Agricultural Economics**, Himalayas Publishing House, Delhi.
11. Dantwala, M.L. et al., (1991): **Indian Agricultural Development since Independence**, Oxford & IBH, New Delhi.
12. Gaurav Datt and Ashwani Maharaj C (2014), Datt and Sundaram's Indian Economy, S.Chand & Co., New Delhi.
13. Government of India, Economic Survey, Annual (2014), New Delhi.
14. Gualti, A. and T.Kelly (1999): **Trade Liberalisation and Indian Agriculture**, Oxford University Press, New Delhi.
15. Kahion, A.S. and Tyagi D.D. (1983): **Agriculture Price Policy in India**, Allied Publishers, New Delhi.
16. Memoria C.B (2013) Agricultural Problem in India.
17. Rao, C.H. Hanumanth (1975): **Agricultural Growth, Rural Poverty and Environmental Degradation in India**, Oxford University Press, New Delhi.
18. Sadhu and Singh (2013) Fundamentals of Agricultural Economics, Himalaya, New Delhi.

**Compulsory Non Credit Course**  
**15GTPP0001: GANDHIAN IN EVERYDAY LIFE**

Semester : II

Course Code : 115GTPP0001

No. of Credits: 2

**Objective**

To understand the Gandhian principles and their relevance in the contemporary times.

**Specific Objectives of Learning**

1. Students would have gained knowledge in Gandhian principles
2. They would have developed conviction towards applying them in solving day to day problems.

**Unit I: Understanding Gandhi**

Childhood days - Student days - influence of Books and Individuals - Religion - Family and Social factors. Gandhi as rebel - acquaintance with vegetarianism - as lawyer - encountering and transforming humiliation: in India, in South Africa - train incident- Coach incident - on path way - at court - attack by protesters - Gandhi as political leader and reformer.

**Unit II: Management**

Gandhi's experiments in managing family- Eleven vows - non-possession and sacrifice begin at home - Managing Ashram - community living, service and financial ethics - Managing Social movements- Transvaal March and Salt Satyagraha and nonattachment to position (Nishkama Seva).

**Unit III: Conflict Reduction**

Pursuance of truth and nonviolence - ends and means - openness - transparency - love and kindness in handling relationship - nonviolent communication - practicing nonviolence in social and political issues (Satyagraha) - conflict resolution practices - art of forgiveness and reconciliation and Shanti Sena.

**Unit IV: Humanism**

Trust in goodness of human nature - respect for individual and pluralistic nature of society - dignity of differences - equal regard for all religions (Sarvadharm Samabhava) - castes - races - colours- languages simple and ethical life - swadeshi and unity of humankind.

**Unit V: Constructive Programmes and contemporary issues**

Concept of Sarvodaya - poverty - terrorism - environmental degradation - problems in sharing common resources - health systems and education - science and technology centralization of power and governance.

**References**

- M.K. Gandhi, (2012) *An Autobiography or The Story of My Experiments with Truth*, Navajivan Publishing House, Ahmedabad.
- . (2003) *Satyagraha in South Africa*, Navajivan Publishing House, Ahmedabad.
- . (1945) *Constructive Programme: Its Meaning and Place*, Navajivan Publishing House, Ahmedabad.
- . (2003) *Key to Health*, Navajivan Publishing House, Ahmedabad
- . (1949) *Diet and Diet Reform*, Navajivan Publishing House, Ahmedabad.
- . *Basic Education*, Navajivan Publishing House, Ahmedabad.
- . (2004) *Village Industries*, Navajivan Publishing House, Ahmedabad.
- . (1997) *Hind Swaraj*, Navajivan Publishing House, Ahmedabad.
- . (2004) *Trusteeship*, Navajivan Publishing House, Ahmedabad.
- . (2001) *India of my Dreams*, Navajivan Publishing House, Ahmedabad.
- K.S.Bharathi (1995) *Thought of Gandhi and Vinoba, Shanti Sena*, Sarva Seva Sangh Prakashan, Varanasi.
- V.P.Varma, (1999) *Political Philosophy of Mahatma Gandhi and Sarvodaya*, Lakshmi Narain Agarwal, Agra.
- Louis Fisher (2010) *Gandhi: His Life and Message*.
- B.R. Nanda. (2011) *Mahatma Gandhi: A Biography*, Allied Publishers Private Ltd., New Delhi.
- N.K. Bose. (2008) *Studies in Gandhism*, Navajivan Publishing House, Ahmedabad.
- Gopinath Dhawan, (2006) *The Political Philosophy of Mahatma Gandhi*, Navajivan Publishing House, Ahmedabad.
- N. Radhakrishnan, (2006) *Gandhi's Constructive Programmes: An Antidote to Globalized Economic Planning?*, Gandhigram Rural Institute, 2006.

**Films.**

- Richard Attenborough, *Gandhi*.
- Syam Benegal, *The Making of Mahatma*.
- Anupam P. Kher, *Mine Gandhi Ko Nahin Mara*.
- Peter Ackerman and Jack Duvall, *A Force More Powerful*.

Semester -I

**15ECOP02F2: Extension / Industrial Visit**

(Course Code: 15ECOP02F2 Credit: 2 Marks: 50)

## DEVELOPMENT ECONOMICS

Semester : III  
Course Code : 15ECOP0308

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

### Objective

To offer a survey of mainstream theories of development and growth.

### Specific Objectives of Learning

3. The students would have understood different dimensions of economic development.
4. They would have developed a mental framework on growth and development models.

### 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.

### 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 and MNCs.

### References

11. Adelman, I. (1961): *Theories of Economic Growth and Development*, Stanford University Press, Stanford.
12. Behrman, S and T.N.Srinivasan (1995): *Handbook of Development Economics Vol.3*, Elsevier, Amsterdam.
13. Chakraverti, S. (1982): *Alternative Approaches to the Theory of Economic Growth*, Oxford University Press, New Delhi.
14. Dasgupta, P. (1993): *An Enquiry into Well being and Destitution*, Clarendon Press, Oxford.
15. Jhingan M.L (2014) *Economics of Growth and Development*, Himalaya Publishing House, New Delhi.
16. Kindleberger, C.P. (1977): *Economic Development*, McGraw Hill, New York.
17. Meier, G.M. (1995): *Leading Issues in Economic Development*, Oxford University Press, New York.
18. Sen, A.K. (Ed.) (1990): *Growth Economics*, Penguin, Harmondsworth.
19. Solow, R.M. (2000) : *Growth Theory : An Exposition*, Oxford University Press,
20. Todaro, M.P. (1996): *Economic Development*, Longman, London.

## PUBLIC FINANCE

Semester : III  
Course Code : 15ECOP0309

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

### Objective

To enable the students to understand the fundamentals of Public Finance with special reference to fiscal and budgetary exercises of Governments

### Specific Objectives of Learning

1. The students would become familiar with budget analysis and be able to make critical analysis of budget.
2. They will be able to prepare budget for a given set of data.

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

Public Finance - Importance and Functions - 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 - objectives and characteristics of taxation - Tax policy in developing economies Theories of taxation - Proportional Vs Progressive taxation - Taxable capacity - Incidence of Taxation -Effects of taxation.

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

Meaning - Components - Causes for growth of Public Expenditure - Principles of Public Expenditure - Pure Theory of Public Expenditure - Effects of Public Expenditure - Role of Public Expenditure in a developing economy.

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

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

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

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

### References

1. Atkinson, A.B. and J.E.Stiglitz (1980): **Lectures on Public Economics**, Tata McGraw Hill, New York.
2. Buchanan, J.M. (1970): **The Public Finances**, Richard D. Irwin, Homewood.
3. Musgrave, R.A. (1959): **The Theory of Public Finance**, McGraw Hill, Kogakhusa, Tokyo.
4. Musgrave, R.A. and P.B. Musgrave (1976): **Public Finance in Theory and Practice**, McGraw Hill Kogakusja, Tokyo.
5. Sury M.M., (2003): **India: Central Government Budgets 1947-48 to 2003-04**, Indian Tax Foundation, New Delhi.
6. Thiagi B.P (2005), Public Finance,

## ECONOMETRICS

Semester : III  
Course Code : 15ECOP0310

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

### Objective

To familiarize the students in the methodology of econometrics.

### Specific Objectives of Learning

1. The students would be able to apply econometrics in research studies.
2. They would have gained skills in econometric methods to approach and solve economic problems.

### UNIT I: MODELS AND METHODOLOGY (12 hrs)

Economic and Econometric models - Econometric Methodology - 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, Multicollinear 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: INPUT - OUTPUT ANALYSIS AND LINEAR PROGRAMMING (15 hrs)

Leontief's Open Static Model - Uses and Limitations - Linear Programming - Primal and Dual - Graphic Method - Applications in Economics.

### UNIT V: GAME THEORY (15 hrs)

Concept of a Game: Strategies - Single and Mixed - Value of a Game - Saddle Point Solution - Simple Applications, Transformation and Assignment Problems.

### References:

1. Gujarati D (1998), 'Essentials of Econometrics', Irwin Mcgraw Hill, Newyork.
2. Koutsoyiannis A (1999), 'Theory of Econometrics', Palgrave Publishers Ltd, Newyork.
3. Maddala G S (2002), 'Introduction to Econometrics', John Wiley & Sons Ltd, Newyork.
4. Nachane D (2006), "Econometrics" Oxford University Press, New Delhi
5. Robert S. Pindyck & Daniel L. Rubinfeld (1998), 'Econometric Models and Economic Forecasts', Irwin Mcgraw Hill, Newyork.



## ENVIRONMENTAL ECONOMICS

Semester : III  
Course Code : 15ECOP0311

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

### Objective

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

### Specific Objectives of Learning

1. The students would gain knowledge and skills in analyzing environmental issues and problems.
2. They would become more aware of importance of protecting environment.
3. They would be able to make economic valuation of environment.

### UNIT I: INTRODUCTION TO ENVIRONMENTAL ECONOMICS (12 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: 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 POLLUTION AND ISSUES (12 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.

### UNIT IV: VALUATION OF ENVIRONMENTAL BENEFITS AND COSTS (12 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: ENVIRONMENTAL REGULATIONS AND POLICIES (16 hrs)

Environmental Regulatory Instruments - CAC, Legal, Fixel and Economics - Global - Environmental Movements - Institutional approach to Environmental Management and Domestic - Environmental Ethics.

### References

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. Dutt, A., Dutta, S and Pandey (2005): **Environmental Economics** APH Publishing Corporation, New Delhi.
5. Karpagam. M (1999): **Environment Economics A Text Book**, Sterling, Chennai.
6. Sankar. U.: () **Environment Economics**, Oxford University Press, New Delhi.
7. Seb Gupta, Ram Prasad (2001): **Ecology and Environment: An Approach to Sustainable Development**, Oxford University Press, New Delhi.
8. Tom Tietenberg (2003): **Environmental and Natural Resource Economics**, Pearson, Education, New Delhi.
9. Varadarajan S. and Elangovan S. (1992): **Environmental Economics**, SPEED, Madurai.

**Major Elective**  
**HEALTH ECONOMICS**

Semester : III  
Course Code : 15ECOP03E1

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

**Objective**

To teach the applications of economic theory in health sector.

**Specific Objectives of Learning**

1. The students would become conversant with concepts and contents of health economics.
2. The students would have gained knowledge in taking up studies in economic issues of health sector.

**UNIT I: INTRODUCTION TO HEALTH ECONOMICS (10 hrs)**

Meaning - Definition - Health Function - Types of Health Economics Research - Role of Health Sector in the Economy.

**UNIT II: DEMAND FOR AND SUPPLY OF HEALTH CARE (12 hrs)**

Relevance of Consumer Demand Theory to Health - Factors influencing Demand for Health Care - Hospital Production Function - Objectives and Constraints Hospital Size - Hospital Costs and Efficiency - Physician Supply Curve - Physician Payment Mechanism - Physician Induced Demand.

**UNIT III: HEALTH SYSTEMS AND PLANNING IN HEALTH CARE (14 hrs)**

Health Systems - Definition - Components - Organization of Health Services - Economic, Political and Cultural Determinants -Need and process of Planning in Health Care - Health Care Planning in India.

**UNIT IV: HEALTH FINANCING AND INSURANCE (14 hrs)**

Health Financing - Meaning and Objectives - Development and Community Financing - Health Financing in Developing Countries - Concept of Health Insurance - Types and Importance - Health Insurance and Health Care Demand.

**UNIT V: HEALTH CARE, COSTING AND OUTCOMES (14 hrs)**

Health care Costs - Types of Costs - Cost Allocation - Inputs and Outputs: Cost Curves - Reasons for Costing in Health - Issues in Cost-Benefit Analysis.

**References**

1. Berman PA and ME Khan (1993): **Paying for India's Health Care**, Sage Publications, New Delhi.
2. Folland S, Goodman AC, and Stano M. (1987): **The Economics of Health and Health Care**, Prentice Hall, New Jersey.
3. Mills A, and Lee K (Eds.) (1993): **Health Economics Research in Developing Countries**, Oxford University Press, New York.
4. Mills A (1983): **Economics of Health in Developing Countries**, Oxford University Press, New York.
5. Phelps CE (1997): **Health Economics**, Addison Wesley, New York.
6. Thomas E. Getzen (1997): **Health Economics: Fundamentals and Flow of Funds**, John Wiley & Sons, Inc., New York.

## Major Elective

### PROJECT PLANNING AND EVALUATION

Semester : III  
Course Code : 15ECOP03E2

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

#### Objective

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

#### Specific Objectives of Learning

1. The students would have developed understanding and skills in concepts and methods of project planning and evaluation.
2. They would be able to plan and evaluate projects.

#### 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 (15 hrs)

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

#### UNIT IV: PROJECT MONITORING (14 hrs)

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

#### UNIT V: PROJECT EVALUATION (13 hrs)

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

#### References

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, New Delhi.
4. Mathoo, P.K., (1978) : **Project Formulation in Developing Countries**, Macmillan, Delhi.
5. Pandey, I.M., (2012): **Financial Management**, Vikas, New Delhi.
6. Prasann Chandra., (2010): **Project-Preparation Appraisal Budgeting and Implementation**, Tata McGraw Hill, New Delhi.
7. Putuswamaiah. K., (1979): **Fundamentals of Applied Evaluation**, Oxford & IBH, New Delhi.
8. Putuswamaiah K., (1980): **Project, Evaluation Criteria and Cost-Benefit Analysis**, Oxford & IBH, New Delhi.

## Major Elective

### GLOBALIZATION AND WTO: ISSUES AND STRATEGIES

Semester : III  
Course Code : 15ECOP03E3

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

#### Objective

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

#### Specific Objectives of Learning

1. The students would become familiar with process and impact of globalization and functioning of international institutions.

#### UNIT I: GLOBALISATION (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 (15 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 (12 hrs)

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

#### UNIT IV: IMPACT OF GLOBALIZATION (15 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 (12 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.

#### References

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, New Delhi, 2014.
3. Falendra K. Sudan (2005): **Globalisation and Liberalisation**, Series Publications, New 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, New Delhi.

## Modular Courses

### RURAL RESOURCE MAPPING AND ANALYSIS

Semester : III

Course Code : 15ECOP03M1

No. of Credits: 2

No. of Hours: 32

#### Objective

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

#### Specific Objectives of Learning

On successful completion of the course the students would be able to

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

#### Course contents

1. Appraisal and assessment of natural, physical, social, human, financial resources (Social Mapping, Resource Mapping, transect, time line matrix ranking, inventory of skills and opportunities).
2. Appraisal and assessment of utilization pattern of different resources (Venn diagram, linkages, seasonal diagram-casual and impact diagram, focus group discussion).
3. Identification and documentation of livelihood and viable business opportunities (Ranking, Scoring, Matrix, Focus group discussion).

**Note:** This is a field based modular course. The students of MBA (Small Business Management) programme shall undergo this course which carries 2 credits.

## HUMAN DEVELOPMENT INDEX AND ITS APPLICATIONS

Semester : III

Course Code : 15ECOP03M2

No. of Credits: 2

No. of Hours: 32

**Unit I:** Indicators of development - Economic, Political, Social, Cultural, Technological, Educational, Health and Sanitation - Standard of living and physical quality life index - Indicators of health - Indicators of Educational Developed - Indicators of life expectancy.

**Unit II:** Human Development Index - Dimension - Methodology - Human Poverty Index - Dimension and Methodology and Gender Related Development Index - Methodology.

## PARTICIPATORY RUAL APPRAISAL

Semester : III  
Course Code : 15ECOP03M3

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

- Genesis of PRA
- Survey method and Rural Development Tourism - Limitations
- Principles of PRA
- Methods of PRA
- Field Exercise: social mappings, Transect time line, trend change,
- Resource mapping, seasonal calendar, problem analysis.

## VILLAGE PLACEMENT PROGRAMME

Semester : III  
Course Code : 15EXNP03V1

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

### Objective

To train the students to acquire skills in data collection methods, organizing rural people, conducting need based programmes, establishing collaborations with institutions and organizations of similar interest.

### Specific Objectives of Learning

1. The students would have acquired skills in
  - Interviewing
  - Data collection
  - Conducting case studies
  - Organizing people and conducting meetings
  - Establish linkages and collaborations with institutions and organizations
  - Documenting information.
2. They would have also gained enhanced social awareness and developed an attitude towards contributing to the society.

### Course contents

- Appraisal and economic conditions of villages - PRA methods - surveys
- Understating and analyzing resource base and occupational pattern.
- Assessing mobilities and linkages
- Documentation of Rural Ins and Rural outs
- Case studies on
  - CPR
  - Rural economic organization/entities
  - Rural community based organizations
  - Educational institutions
  - Religious institutions
- Budget analysis of local bodies
- Campaigns on thrifts and savings
- Awareness programme on organic farming, marketing of agricultural produces, value addition
- Sensitization sessions on rural business / livelihood opportunities
- Documentation and sharing.

### Evaluation

This is a field based practical course. Evaluation will be done by the faculty-in-charge of VPP based on students participation in field work and its documentation.



## ENERGY ECONOMICS

Semester : IV  
Course Code : 15ECOP0412

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

### Objective

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

### Specific Objectives of Learning

1. The students would have understood the importance of energy in economic development and need for energy conservation.
2. They would also be able to take up research in energy economics.

### UNIT I: INTRODUCTION TO ENERGY ECONOMICS (12 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 (10 hrs)

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

### UNIT III: ENERGY AND ENVIRONMENT NEXUS (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 in India

### References

1. Agarwal, M.C. and Monga, J.R. (1992): **Economic and Commercial Geography**, National Publishing House, New 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. David Pearct et al., (1990): **Sustainable Development - Economics and Environment in the Third World**, Earths Can Publications, London.
5. Karpagam, M. (1991): **Environmental Economics**, Sterling, New Delhi.
6. Kneese. A.V and Sweeny, J.L, 1993): **Handbook of Natural Resource and Energy Economics**, North Holland.
7. Munasinghe, M and Meier, P (1993): **Energy Policy and Modeling**, Cambridge University Press, UK.
8. Richard Eden (1981): **Energy Economics - Growth, Resources and Policies**, Cambridge University Press, London.
9. TERI (2015): **Teri Energy Data Directory and Year Book 2014-15**, The Energy Research Institute, New Delhi.

## GANDHIAN ECONOMICS

Semester : IV  
Course Code : 15ECOP0413

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

### Objective

To orient the students with the Gandhian ideas of economics.

### Specific Objectives of Learning

1. The students would have understood the importance of Gandhian Economics
2. They would have developed conviction on the relevance of Gandhian economics in the contemporary world.
3. They would have developed an attitude towards adopting Gandhian economic principles.

**UNIT I:** Fundamental Principles of Gandhian Economic Thought - Non-Violence - Philosophy of work and Bread labour-ownership of common property - Trusteeship- cooperative farming - value based development- Need Vs Greed.

**UNIT II:** Gandhi's views on industrial civilization - Mechanization - Appropriate/Intermediate technology. Role of cottage and small scale village industries and rural crafts in the rural economy.

**UNIT III:** Gandhi's critique of industrialism-Decentralized production-Sarvodaya economics-Swadeshi and its relevance- importance of welfare economics.

**UNIT IV:** Concept of Rural Reconstruction - village self-sufficiency - Khadi and handloom sector-Bhoodan, Gramdan and Kisan movements- role of village Panchayat and public finance-Cooperatives in rural development.

**UNIT V:** Economy of permanence- economic ideas of Gandhi in the context of Globalization- issues in sustainable development and emerging challenges.

### References

1. Bipin Chandra, The Rise and growth of Economic Nationalism in India.
2. RoberL. Heilbroner, The Worldly Philosophers: The Great economic Thinkers.
3. Romesh K.diwan & Mark A.Lutz, Essays in Gandhian Economics.
4. Kumarappa.J.C, Essays in Gandhian Economics.
5. Kumarappa.J.C, Economy of Permanence.
6. Schumacher.E.F, Small Is Beautiful.
7. Kripalani.J.B, Planning and sarvodaya.
8. Gandhi, M.K, My Theory of Trustship, Navajivan, Ahmedabad.
9. Gupta.S.S: Economic Philosophy of Mahatma Gandhi, Ashok Publishing House, New Delhi.
10. Chacko.K.C: Metaphysical Implications of Gandhian Thought, Mittal Publications, New Delhi.
11. Tahtinen Unto: The core of Gandhiji's Philosophy, Abhinav Publications, New Delhi.

## DISSERTATION

Semester : IV  
Course Code : 15ECOP0414

No. of Credits: 8

### Objective

To orient the students in conducting and documenting research study.

### Specific Objectives of Learning

On completion of the dissertation the students will be able to:

1. Identify the problem for taking up research studies.
2. Analyse the problem and draw inference.
3. Apply appropriate statistical tools and techniques.
4. Prepare a research report in a systematic manner.

### Evaluation

For evaluation of Dissertation, the following criteria will be adopted: 75 marks for external valuation, 75 marks for internal evaluation and 50 marks for joint viva-voce examination.

**Modular Courses**  
**BUDGET ANALYSIS**

**Semester : IV**  
**Course Code : 15ECOP04M1**

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

**Objective**

To expose the students on various concepts in budget. Would help students to critically think on budgeting.

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

**Unit II:** Balanced - Surplus and Deficit budgets - Consequences - Annual budget - Quinquennial and Decadal budget.

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

**Unit IV:** Budget and Indian Economy - Goal - Achievements - Issues and Challenges.

## ENVIRONMENTAL IMPACT ASSESSMENT

Semester : IV  
Course Code : 15ECOP04M2

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

### Objective

To expose the students on various concepts in environmental impact.

**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.

## RURAL ENERGY ASSESSMENT

Semester : IV  
Course Code : 15ECOP04M3

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

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'.