

Regulations and Syllabi

for

**Master of Arts in Economics
offered from the
Academic Year 2019 - 2020 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 the 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. (Hones 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 enabling the students:

- ✓ To understand the concepts and theories in various branches of economics;
- ✓ To give focus on various dimensions and sectoral developments of the Indian economy in theory and practice;
- ✓ To get a better exposure to the national and international economic scenarios;
- ✓ To familiarize with the real economic issues and problems;
- ✓ To gain confidence and develop necessary skills to face all kinds of economic challenges;
- ✓ To get continuous R&D skills and Win-Win strategies on economic development; and
- ✓ To prepare personnel for Indian Economic Service (IES), UGC NET and SET Examinations.

Programme Outcome (PO)

- ✓ Becoming knowledgeable in the subject of Economics and apply the principles of the same to the needs of the Employers / Institutions /Enterprises/ Society / Communities;
- ✓ Gaining Analytical skills in the field/area of Economics;
- ✓ Understanding and appreciate professional ethics, community living and nation building initiatives;
- ✓ Identifying complex economic issues and offers solutions to them;
- ✓ Predicts and synthesizes economic events;
- ✓ Formulating appropriate development policies; and
- ✓ Creating profession manpower to steer the economy.

Programme Specific Outcome (PSO)

- ✓ Apply the knowledge of theories and concept in the domain of economics.
- ✓ Solve the complex problems in the field of economics with an understanding of the societal, legal and cultural impacts of the solution
- ✓ Identify and analyse issues of economy.
- ✓ Prepare blue print for development of various economic actors.

4. NUMBER OF STUDENTS

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 and Elective (major and non-major) Courses.

CURRICULUM DESIGN - M.A. ECONOMICS PROGRAMME
(Offered from the academic year 2019-20 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	Core Courses	1	19ECOP0101	Microeconomics - I	4	4	3	40	60	100
		2	19ECOP0102	Macroeconomics - I	4	4	3	40	60	100
		3	19ECOP0103	Agricultural Economics	4	4	3	40	60	100
		4	19ECOP0104	Statistics	4	4	3	40	60	100
		5	19ECOP0105	Environmental Economics	4	4	3	40	60	100
	Compulsory Non- Credit Courses		17ENGP00C1*	Communication / Soft Skills	-	2	-	50	-	50
		19ECOP01F1	Extension / Field Visit	-	2	-	50	-	50	
Total (I)					20	24		300	300	600
II	Core Courses	6	19ECOP0206	Microeconomics - II	4	4	3	40	60	100
		7	19ECOP0207	Macroeconomics - II	4	4	3	40	60	100
		8	19ECOP0208	Monetary Economics	4	4	3	40	60	100
		9	19ECOP0209	International Economics - I	4	4	3	40	60	100
		10	19ECOP0210	Quantitative Techniques in Economics	4	4	3	40	60	100
	Non major Electives (Choose any one)		19ECOPO2NX	NME - Choose a course offered by other Departments***	4	4	3	40	60	100
	Compulsory Non -Credit Courses		17GTTP0001*	Gandhi in Everyday Life	-	2	-	50	-	50
		19ECOP02F2	Extension / Field Visit	-	2	-	50	-	50	
Total (II)					24	28		340	360	700
III	Core Courses	11	19ECOP0311	Growth and Development	4	4	3	40	60	100
		12	19ECOP0312	International Economics - II	4	4	3	40	60	100
		13	19ECOP0313	Public Finance	4	4	3	40	60	100
		14	19ECOP0314	Econometrics	4	4	3	40	60	100
		15	19ECOP0315	Research Methodology	4	4	3	40	60	100
	Major Elective (Choose any one)		19ECOP03EX	To be chosen from the list in Page 4	4	4	3	40	60	100
	Modular Course		19ECOP03MX	To be chosen from the list.	2	2	-	50	-	50
VPP			19EXNP03V1	Village Placement Programme	2	-	-	50	-	50
Total (III)					28	26	-	340	360	700
IV	Core Courses	16	19ECOP0416	Energy Economics	4	4	3	40	60	100
		17	19ECOP0417	Gandhian Economics	4	4	3	40	60	100
		18	19ECOP0418	Indian Economy	4	4	3	40	60	100
		19	19ECOP0419	Dissertation**	6	6	-	75	75+50	200
	Modular Course		19ECOP04MX	To be chosen from the list in Page 4	2	2	-	50	-	50
Total (IV)					20	20	-	285	365	650
Grand Total (I+II+III+IV)					92	98		1265	1385	2650

* Offered by other departments

** 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.

*** This Department offers Six Non-Major Elective Courses

Major Electives 19ECOP03EX (Choose any one)

1. 19ECOP03E1 - Health Economics
2. 19ECOP03E2 - Project Planning and Evaluation
3. 19ECOP03E3 - Tamil Nadu Economy
4. 19ECOP03E4 - Globalization and WTO: Issues and Strategies

Modular Courses - 19ECOP03MX (Choose any one) - III Semester

1. 19ECOP03M1 - Rural Resource Mapping & Analysis
2. 19ECOP03M2 - Human Development Index and its Applications
3. 19ECOP03M3 - Participatory Rural Appraisal

Modular Courses -19ECOP04MX (Choose any one) - IV Semester

1. 19ECOP04M1 - Budget Analysis
2. 19ECOP04M2 - Environmental Impact Assessment
3. 19ECOP04M3 - 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. 19ECOP0102 - Agricultural Economics
2. 19ECOP0308 - Growth and Development

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

1. 19ECOPN003 - Elements of Economics
2. 19ECOP0308 - Growth and Development

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

1. 19ECOP0416 - Energy Economics and Policy

Department of Co-operation (UG Programme)

1. 19ECOU01B1 - Principles of Economics
2. 19ECOU02B2 - Indian Economy

Department of Co-operation (PG Programme)

1. 19ECOP01B1 - Managerial Economics

Non - Major Electives - NME - 19ECOP02NX - (PG Programme)

1. 19ECOP02N1 - Indian Economy
2. 19ECOP02N3 - Entrepreneurship
3. 19ECOP02N4 - Growth and Development
4. 19ECOP02N5 - Agricultural Economics
5. 19ECOP02N6 - Energy Economics

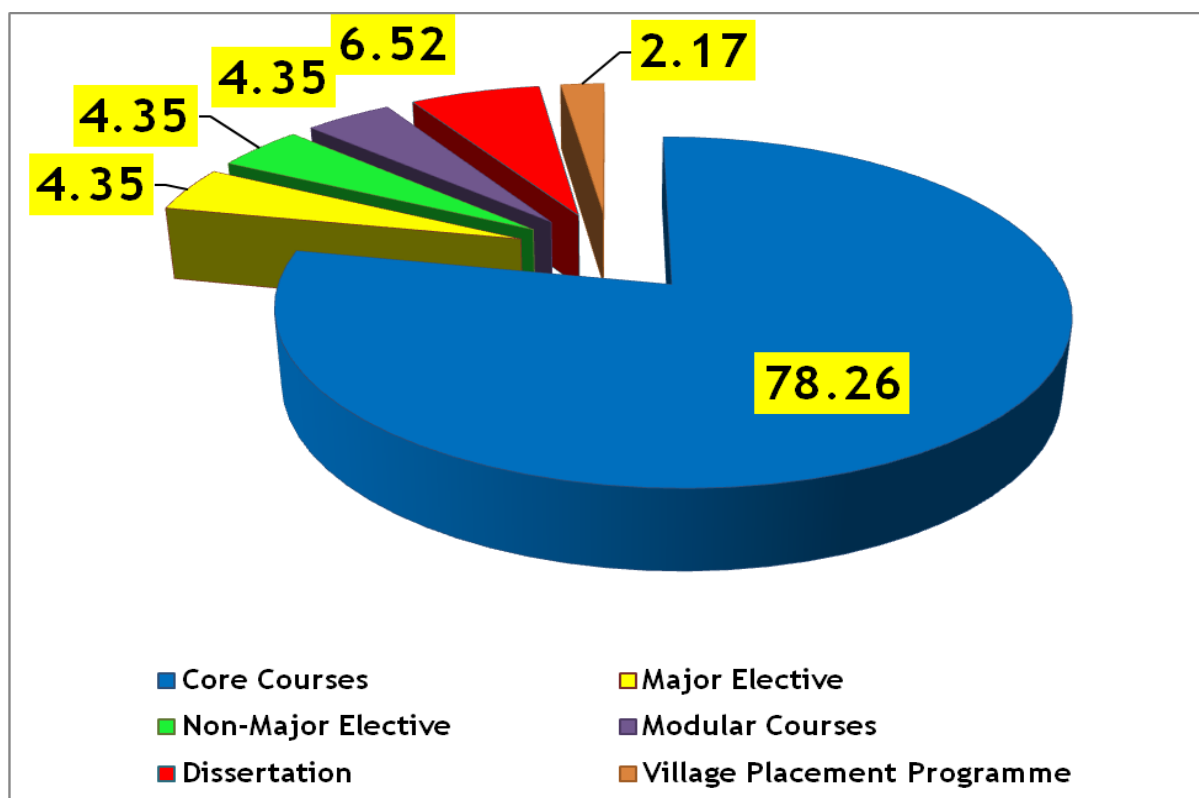
Non - Major Electives - NME - 19ECOU03NX - (UG Programme)

1. 19ECOU03N1 - Principles of Economics
2. 19ECOU03N2 - Indian Economy
3. 19ECOU03N3 - Economic Statistics
4. 19ECOU03N4 - Elements of Economics

Abstract

Sl. No.	Particulars	No. of Papers	Hours / Week	No. of Credits	Percentage
1.	Core Courses	18	72	72	78.26
2.	Major Elective	1	4	4	4.35
3.	Non-Major Elective	1	4	4	4.35
4.	Modular Courses	2	4	4	4.35
5.	Dissertation	1	6	6	6.52
6.	Village Placement Programme	1	-	2	2.17
7.	Compulsory Non-credit courses	-	8	-	-
	Total	24	98	92	100

Distribution of Courses in Percentage



MICROECONOMICS - I

Semester : I
Course Code : 19ECOP0101

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

Objectives

1. To provide for a theoretical background of the study of Microeconomics Theory of Value and Distribution to the students at post graduate level.
2. To illustrate the advancements in the study of Value and Distribution corresponding to the changes taken place in the field of Economics

Specific Course Objectives of Learning

1. To provide the learners with 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 microeconomics in real life situations.
4. Evaluating gross root level markets and market structure for effective understanding of market techniques.
5. Implementing the micro level planning.

UNIT - I THEORY OF DEMAND (12 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 (14 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

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. Ferguson C.E., (1972) 'Principles of Economics', Oxford & IBH, Calcutta.
3. Gravelle H and Rees R (2004) 'Micro Economics', Pearson Education, Delhi.
4. Henderson, J.M. and Quandt (1980) 'Micro Economic Theory: A Mathematical Approach', McGraw Hill, Delhi.
5. Koutsoyiannis, A (1979) 'Modern Microeconomics', Macmillan Press, London.
6. Salvatore, Dominic (2012) 'Micro Economic Theory', Tata McGraw Hill, Delhi.
7. Gregory Mankiv (2016) 'Principles of Microeconomics, CBS Publishers, Delhi.
8. Sen, A.(1999) 'Microeconomics : Theory and Application', Oxford University Press, Delhi.

MACROECONOMICS - I

Semester : I
Course Code : 19ECOP0102

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

Objective

Students understand the basic concepts and Theories of Macroeconomics.

Specific Course Objective

1. Students understand the basic concepts of National Income.
2. Students know about the Theories of Income and Employment.
3. Students learn the Theories Consumption.
4. Students also study the Investment Function.
5. Students also acquaint well with the concept of Inflation.

Specific Course Outcomes

1. To know the Accounting of National Income.
2. To be familiar with the Theories of Income and Employment
3. To knowledge about consumption function.
4. To gain the theoretical knowledge of Investment for Business.
5. To know and solve the problems of Inflation.

UNIT - I: INTRODUCTION TO MACROECONOMICS (12 hrs)

Definition- Nature and Scope - Importance - Limitations of Macroeconomics - Circular Flow of Income - Concepts and Measurement of National Income - National Income Accounting: Social Accounting - Input-Output Accounting - Flow of Funds Accounting - Balance of Payments Accounting.

UNIT - II: CLASSICAL and KEYNESIAN THEORY OF INCOME AND EMPLOYMENT (14 hrs)

Concepts of Unemployment and Full Employment – Types of Unemployment -Classical Theory of Employment: Say's Law of Markets and Wage-Price Flexibility - The Classical Model Theory of Income and Employment with and without Savings and Investment - Keynes's Criticism of Classical Theory - Keynesian Theory of Employment: Aggregate Demand Function - Aggregate Supply Function - Effective Demand.

UNIT - III: CONSUMPTION FUNCTION (14 hrs)

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

UNIT - IV: INVESTMENT FUNCTION (10 hrs)

Investment Function: Meaning - Types - Determinants: MEC and Rate of Interest - Multiplier: Meaning, Derivation and Assumptions of Investment Multiplier - Working of the Multiplier - Leakage of Multiplier - Importance and Criticism of Multiplier - Acceleration - Super Multiplier.

UNIT - V: INFLATION (14 hrs)

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

Text Books

1. Dwivedi D.N., (2010), 'Macro Economics: Theory and Policy', Tata McGraw Hill, Delhi.
2. Richard, T.Froyen (2013), 'Macroeconomics: Theories and Policies', Pearson Education, New Delhi.
3. Gregory Mankiv, (1992), 'Macroeconomics', CBS Publishers, Delhi.
4. David Romer (1996), Advanced Macroeconomics, McGraw-Hill, New Delhi.

References

1. Abel, A.B and Bernanke B.S., (2001), 'Macro Economics', 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. Shapiro, E. (1996), 'Macroeconomics Analysis', Galgotia Publications, Delhi.
5. Dornbusch, Fischer and Startz (2010), 'Macroeconomics', McGraw Hill, New Delhi.
6. Olivier Blanchard (2009), 'Macroeconomics', Pearson Education, Inc, New Delhi.

AGRICULTURAL ECONOMICS

Semester : I
Course Code : 19ECOP0103

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

Objective

1. To facilitate the students to acquaint with the issues in agricultural economics, particularly in the Indian context.

Specific Course Objectives of Learning

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

Specific Course Outcomes

Students would be able

1. Recognizing problems in Indian agriculture
2. Examining the issues in Indian agriculture.
3. Planning for agricultural development.

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

Agricultural Economics: Definition, Nature and Scope - Traditional Agriculture and 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 - Problems of Farmers - Diversification -Avenues of Diversification in India: - Dairy, Poultry, Fishery and Sericulture and Horticulture.

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 of Agriculture and its impact on Labour - Production Function Analysis in Agriculture.

UNIT - IV: AGRICULTURAL FINANCE (12 hrs)

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

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 -Agricultural Price Policy - Agricultural Subsidies.

Text Books

1. Bilgrami, S.A.R. (1996) **Agricultural Economics**, Himalayas Publishing House, Delhi.
2. Kahion, A.S. and Tyagi D.D. (1983) **Agriculture Price Policy in India**, Allied Publishers, Delhi.
3. Sadhu and Singh (2013) **Fundamentals of Agricultural Economics**, Himalaya, 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 **Indian Economy**, S.Chand& Co., Delhi.
3. Government of India, **Economic Survey**, various Years, Ministry of Finance, New Delhi.
4. Gulati, A. and T.Kelly (1999) **Trade Liberalization and Indian Agriculture**, Oxford University Press, Delhi.
5. Rao, C.H. Hanumanth (1975) **Agricultural Growth, Rural Poverty and Environmental Degradation in India**, Oxford University Press, Delhi.

STATISTICS

Semester : I
Course Code : 19ECOP0104

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

Objective

1. This course aims to make the students understand the different statistical methods for economic decision making.

Specific Course Objectives of Learning

1. To study the basics of statistics.
2. To understand the concepts and theory of probability.
3. To generate understanding on various theoretical distributions, estimation and testing of hypothesis
4. To train the students to have computer knowledge in statistics applications.

Specific Course Outcome

1. Demonstrating the knowledge of sampling design.
2. Discussing the uses of probability theory.
3. Applying the various theoretical distributions in research.
4. Enabling the students to handle statistical data effectively in making decisions.
5. Applying the statistics tools by computer 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

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

References

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

ENVIRONMENTAL ECONOMICS

Semester : I
Course Code : 19ECOP0105

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

Objective

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

Specific Course Objectives of Learning

1. To provide relationship between environment and development
2. To understand anatomy of environmental resources
3. To study global environmental issues and their impact on society.
4. To access the valuation technique of environmental resources
5. To narrate the environmental regulation for creating environmental ethics

Specific Course Outcomes

1. Aiming to provide relationship between environment and Development
2. Understanding anatomy of environmental resources
3. Studying global environmental issues and their impact on society
4. Accessing the valuation technique of environmental resources
5. Narrating the environmental regulation for creating environmental ethics.

UNIT - I: BASICS OF 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: 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 (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 - Clouds Burstiy - e-Water.

UNIT - IV: VALUATION OF ENVIRONMENTAL RESOURCES (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: REGULATIONS AND POLICIES FOR PROTECTING ENVIRONMENT (16 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

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

References

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

MICROECONOMICS - II

Semester : II
Course Code : 19ECOP0206

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 Value and Distribution and their likely impact on Decision Process.
2. To provide for a comprehensive analytical frame as advanced Economic literature.

Course Objective

1. To provide the learners with 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 (12 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 (16 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.

MACROECONOMICS - II

Semester : II
Course Code : 19ECOP0207

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

Objective

Students evaluate the macroeconomic policies and their impact on macroeconomic process.

Specific Course Objective

1. To understand the concepts of Business Cycle.
2. To learn the Theories of Interest Rates.
3. Students also acquaint well with the Product and Money Market Equilibrium.
4. To study the Macroeconomic Growth Models.
5. Students know the Macroeconomics in Open Economy.

Specific Course Outcomes

1. To knowing the Theories of Business Cycle.
2. To be familiar with the Theory Interest.
3. To gaining the theoretical knowledge of Product and Money Market Equilibrium.
4. To be familiar with the Macroeconomic Growth Models.
5. To evaluating the Balance of Payment and Exchange Rate.

UNIT - I: THEORIES OF THE BUSINESS CYCLE

(12 hrs)

Meaning and Characteristics of Business Cycle - Phase of Business Cycle - Theories Business Cycle: Samuelson - Hicks - Kaldor - Goodwin of Economic cycles.

UNIT - II: THEORIES OF INTEREST RATES

(12 hrs)

The Classical Theory of Interest - Neo-Classical Theory of Interest - Keynes's Liquidity preference Theory of Interest - Criticisms of Keynes's Liquidity Preference Theory of Interest.

UNIT - III: The IS - LM Model

(14 hrs)

The Product Market Equilibrium: Deriving the IS Curve - The Slope of IS Curve - Shifting in the IS Curve - The Money Market Equilibrium: Deriving the LM Curve - The Slope of LM Curve - Shifting in the LM Curve General Equilibrium of Product Market and Money Market - Changes in General Equilibrium - The role of IS - LM Model in Monetary and Fiscal policies.

UNIT - IV: GROWTH MODELS

(12 hrs)

Meaning of Economic Growth - The Harrod-Domar Model -Kaldor's Model - Joan Robinson Model - Maede's Neo-Classical Model -Solow's Model - New Theory of Growth - Supply-Side Economics - Laffer Curve.

UNIT - V: MACROECONOMICS IN OPEN ECONOMY

(14 hrs)

Balance of Payments: Meaning, Structure and Components of Balance of Payments - Disequilibrium and Causes of Balance of Payments - Measures to Correct Deficit in Balance of Payments - Foreign Exchange Rate: Meaning - Types of Exchange Rates - Determination of Equilibrium Exchange Rate - Causes of Changes in the Exchange Rate - Theories of Exchange Rate - The Mundell-Fleming Model- Free Trade Versus Protection.

Text Books

1. Dwivedi D.N., (2010), 'Macro Economics: Theory and Policy', Tata McGraw Hill, Delhi.
2. Richard, T. Froyen (2013), 'Macroeconomics: Theories and Policies', Pearson Education, New Delhi.
3. Gregory Mankiv, (1992), 'Macroeconomics', CBS Publishers, Delhi.
4. David Romer (1996), Advanced Macroeconomics, McGraw-Hill, New Delhi.

References

1. Abel, A.B and Bernanke B.S., (2001), 'Macro Economics', 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. Shapiro, E. (1996), 'Macroeconomics Analysis', Galgotia Publications, Delhi.
5. Dornbusch, Fischer and Startz (2010), 'Macroeconomics', McGraw Hill, New Delhi.
6. Olivier Blanchard (2009), 'Macroeconomics', Pearson Education, Inc, New Delhi.

MONETARY ECONOMICS

Semester : II
Course Code : 19ECOP0208

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

Objective

1. To make the students so as to understand the theories and analysis issues of monetary economics.

Specific Course Objectives of learning

1. To make the students be clear in the working of money in economy.
2. To gain clarity in the monetary theories and ability to critically evaluate the skills in analyzing the monetary issues in the Indian context.
3. To expose them to the various financial market institutions.
4. To sensitize them to the issues of monetary policy of the Central Bank.

Specific Course Outcomes

1. Evaluating the theories of monetary economics.
2. Analyzing the relation between monetary forces and real forces.
3. Identifying research issues in monetary economics.
4. Recognizing and analyze issues in monetary policy and understanding the working of monetary institutions in India.

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 - Patinkin's 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

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

References

1. Gibson, Williamson E and Kaufman, George G (1971) 'Monetary Economics: Readings on Current Issues', TATA McGraw Hill, 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, Madras.
5. Reddy, Y.V. (2000) 'A Review of Monetary and Financial Sector Reforms in India - A Central Banker's Perspective', UBSPD, Delhi.
6. Venugopal Reddy, Y. (2000) 'Monetary and Financial Sector Reforms in India', UBS PD, Chennai.

INTERNATIONAL ECONOMICS - I

Semester : II
Course Code : 19ECOP0209

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

Objective

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

Specific Course Objectives of Learning

1. To understand theories of international trade.
2. To examine the pros and cons of international trade.
3. To analyse various components of BOP.
4. To narrate the functions and management of Foreign exchange market.
5. To comprehend role and functions of international trade related institutions.

Specific Course Outcomes

1. Understanding theories of international trade in the context of globalization
2. Assessing gains from international trade.
3. Preparing the components of current and capital accounts of BOP.
4. Evaluating the theories of exchange and Foreign Exchange management.
5. Explaining and formulate the functions of International Financial Institutions.

UNIT - I: INTRODUCTION TO INTERNATIONAL ECONOMICS (12 hrs)

International Economics: Meaning, Nature and Scope - The basis of International Trade - Internal and International Trade - Importance of International Economics - Production Possibility Curve - Community Indifference Curve - Offer Curve - Trade Indifference Curve - Box diagram - Subject matter of international economics - Purpose of international theories and policies - current international economic problems.

UNIT - II: THEORIES OF INTERNATIONAL TRADE (15 hrs)

Mercantilists Views on Trade - Trade based on Absolute Advantage: Adam Smith - Trade based on Comparative Advantage: David Ricardo - Mill's Reciprocal Demand - Comparative Advantage and Opportunity Cost - Heckscher-Ohlin Theorem - Factor Price Equilibrium Theorem - Empirical Test of Heckscher-Ohlin Model. Leontief Paradox

UNIT - III ALTERNATIVE TRADE THEORIES (12 hrs)

Recent Developments in the Theories of International Trade: Availability Doctrine - Stolper-Samuelson Theorem - Vent for Surplus Approach - Product Cycle Hypothesis - Kravis and Linders theory of Trade.

UNIT - IV ECONOMIC GROWTH AND INTERNATIONAL TRADE (15 hrs)

Growth of Factors of Production: Labour Growth and Capital Accumulation - Rybczynski Theorem - Technical Progress - Growth and Trade: Small Country and Large Country Case - Immiserizing Growth - Growth Changes Tastes and Trade in both Nations - Import substitution and export promotions strategy.

UNIT - V: INTERNATIONAL TRADE POLICIES (12 hrs)

Trade Restrictions: Tariffs - Partial Equilibrium Analysis of a Tariff - Theory of Tariff Structure - General Equilibrium Analysis of a Tariff - Optimum Tariff. Non-Tariff Trade Barriers and the New Protectionism: Import Quotas - Voluntary Export Restraints - Technical, Administrative and other Regulations - International Cartels - Dumping - Political Economy of Protectionism and Strategic Trade and Industrial Policy - Outstanding Trade Problems.

Text Books

1. Agarwal, M.R. (1979) 'Regional Economic Cooperation in South Asia', S. Chand and Co., Delhi.
2. Cherunilam, Francis (2004) 'International Economics', Tata McGraw Hill Publishing Company Limited, Delhi.
3. Sundaram, K.P.M., (2002) 'Money, Banking and International Trade', Sulthan Chand, Delhi.
4. Mithani, D.M.(2011), 'International Economics', Himalaya Publishing House, Mumbai.
5. Maria John Kennedy M (2014) 'International Economics', PHI Learning Private Limited, Delhi.
6. Sankaran.S., (2004) 'International Economics', Margham Publishing, Chennai.
7. Manur, H.G, (2010), 'International Economics', Vikas Publishing House, Delhi.

References

1. Bhagwati, J. (Ed.) (1981) 'International Trade', Selected Readings, Cambridge, University Press, Massachusetts.
2. Krugman, P.R. and M. Obstfeld (1994) 'International Economics: Theory and Policy', Glenview, Foresman.
3. Mundell, R., (1968) 'International Economics', Macmillan, New York.
4. Salvatore, D. (1997) 'International Economics', Prentice Hall, Upper Saddle River, N.J., New York.
5. Soderston, B.O., (1991) 'International Economics', The Macmillan Press Ltd., London.
6. Dominic Salvatore (2013) 11th Edition (Electronic research) 'International Economics', Prentice Hall, Upper Saddle River, N.J., New York.

QUANTITATIVE TECHNIQUES IN ECONOMICS

Semester : II
Course Code : 19ECOP0210

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

Objective

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

Specific Course Objectives of learning

1. To provide a specific knowledge in the core areas of quantitative techniques and its application in economic analysis.
2. To take a rigorous, quantitative approach to the economic problems.
3. To apply quantitative techniques in economic research.
4. To advance professionally and to compete for well-paying jobs across a broad spectrum of industries and different sectors.
5. To demonstrate the Quantitative Techniques in solving economic issues.

Specific Course Outcomes

1. Applying Mathematical models in economic development
2. Identifying to simplifying complex issues.
3. Designing and conducting experiments, as well as to analyze and interpret data
4. Projecting the economic growth and development.
5. Utilizing appropriate technical tools to desire 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

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. Hoog, R.V. and A.T.Craig (1970) 'Introduction in Mathematical Statistics', Macmillan Publishing Co., New York.
5. Monga, G.S. (1972) 'Mathematics and Statistics for Economists', Vikas Publishing House, Delhi.

References

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

GROWTH AND DEVELOPMENT

Semester : III
Course Code : 19ECOP0311

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

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

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.

INTERNATIONAL ECONOMICS - II

Semester : III
Course Code : 19ECOP0312

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

Objective

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

Specific Course Objectives of Learning

1. To understand theories of international trade.
2. To examine the pros and cons of international trade.
3. To analyse various components of BOP
4. To narrate the functions and management of Foreign exchange market.
5. To comprehend role and functions of international trade related institutions

Specific Course Outcomes

1. Applying theories of international trade in the context of globalization
2. Assessing gains from international trade
3. Preparing the components of current and capital accounts of BOP
4. Evaluating the theories of exchange and Foreign Exchange management
5. Explaining and formulate the functions of International Financial Institutions

UNIT - I: THE GAINS FROM TRADE (10 hrs)

Meaning - Potential and actual gain from international trade - Measurement of gains from trade - Factors determining the gains from trade - Gains from trade and income distribution - Gains from trade in the case of large and small country - Free trade superior to no trade - Restricted trade superior to no trade - Static and dynamic gains from trade.

UNIT - II: THEORIES OF TARIFFS AND ITS EFFECTS (12 hrs)

Meaning and types - Effects of tariffs - Tariffs and welfare - Effects of a tariffs on income distribution - The Stolper-Samuelson theorem - Non-Tariffs Barriers (NTB) - Income quotas - Dumping.

UNIT - III: BALANCE OF PAYMENTS (12 hrs)

Meaning and components - Balance of payments accounts - Measuring deficit or surplus in balance of payments - Balance of trade and balance of payments - Adjustment mechanisms of balance of payments - Under gold standard - Adjustment under flexible exchange rates (Price effect) - The elasticity approach - The monetary approach.

UNIT - IV: THEORIES OF 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 and REGIONAL BLOCKS (15 hrs)

IMF and IBRD - UNCTAD - WTO - ADB - ITC - IFC - EU - SAARC - ASEAN - BRICS - G8 - G20 - OPEC - Institutions of International Trade in India: RBI - EXIM Bank - Export Promotion Council - Commodity Boards - Export Houses.

Text Books

1. Agarwal, M.R. (1979) 'Regional Economic Cooperation in South Asia', S. Chand and Co., Delhi.
2. Cherunilam, Francis (2004) 'International Economics', Tata McGraw Hill Publishing Company Limited, Delhi.
3. Lakshmana Rao, V. (1992) 'Essays on Indian Monetary and BoP Experience', Mittal Publications, Delhi.
4. Sundaram, K.P.M., (2002) 'Money, Banking and International Trade', Sulthan Chand, Delhi.
5. Mithani, D.M. (2011), 'International Economics', Himalaya Publishing House, Mumbai.
6. Maria John Kennedy M (2014) 'International Economics', PHI Learning Private Limited, Delhi.
7. Sankaran.S., (2004) 'International Economics', Margham Publishing, Chennai.
8. Manur, H.G, (2010), 'International Economics', Vikas Publishing House, Delhi.

References

1. Bhagwati, J. (Ed.) (1981) 'International Trade', Selected Readings, Cambridge, University Press, Massachusetts.
2. Krugman, P.R. and M. Obstfeld (1994) 'International Economics: Theory and Policy', Glenview, Foresman.
3. Mundell, R., (1968) 'International Economics', Macmillan, New York.
4. Salvatore, D. (1997) 'International Economics', Prentice Hall, Upper Saddle River, N.J., New York.
5. Soderston, B.O., (1991) 'International Economics', The Macmillan Press Ltd., London.
6. Dominic Salvatore (2013) 'International Economics', Prentice Hall, N.J, New York.

PUBLIC FINANCE

Semester : III
Course Code : 19ECOP0313

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 analysis of budget.
2. To prepare budget for a given set of data.
3. To identify ways and measures for effective fiscal operation.

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 the fiscal Federation

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 - Canons 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)

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 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.

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. Sury M.M., (2003) 'India: Central Government Budgets 1947-48 to 2003-04', Indian Tax Foundation, Delhi.

ECONOMETRICS

Semester : III
Course Code : 19ECOP0314

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

Objective

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

Specific Course Objectives of Learning

1. To apply and integrate various economic 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.
5. To formulate framework for calculating various economic variables.

Specific Courses Outcomes

1. Applying advanced econometrics models.
2. Utilizing appropriate econometric tools
3. Forecasting the economic growth and development
4. Assessing the economic conditions
5. 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.

RESEARCH METHODOLOGY

Semester : III
Course Code : 19ECOPO315

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

Objective

1. To apply the principles of research methodology in writing the research propose.

Specific Course Objective of learning

1. To familiarize the students with different methods and techniques of social science research.
2. To explore the different data sources and methods of data collection.

Specific Course Outcomes

1. Developing scientific outlook towards a holistic view.
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.

ENERGY ECONOMICS

Semester : IV
Course Code : 19ECOP0416

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

Objective

1. To help 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 examine nexus between energy and environment.
4. To highlight energy planning and management
5. To document the energy profile in India.

Specific Course Outcomes

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

UNIT - I: BASICS OF 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 INSTITUTIONS (10 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.

GANDHIAN ECONOMICS

Semester : IV
Course Code : 19ECOP0417

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

Objective

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

Specific Course Objectives of Learning

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

Specific Course Outcomes

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

UNIT - I: PRINCIPLES OF GANDHIAN THOUGHTS (12 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 (10 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 (12 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 (15 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 PERMANENCE (15 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

1. Bipin Chandra, (2016) 'The Rise and growth of Economic Nationalism in India' Har-Anand Publications Pvt Ltd, Delhi.
2. Chacko.K.C (1986) 'Metaphysical Implications of Gandhian Thought', Mittal Publications, Delhi.
3. Gandhi, M. K., (1930) 'The Congress', Young India, 12(2), January.
4. Gupta.S.S (1994) 'Economic Philosophy of Mahatma Gandhi', Ashok Publishing House, Delhi.
5. Kumarappa, J. C., (1949) 'The Gandhian Economy and Other Essays', The All India Village Industries Association, Wardha.
6. 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

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

INDIAN ECONOMY

Semester : IV
Course Code : 19ECOP0418

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

Objective

1. To inculcate the knowledge on Indian Economy and resolve the problems of India.

Specific Course Objectives of learning

1. To understand the nature and structure of Indian Economy.
2. To study the Indian Economic Planning.
3. To explore the significance of Indian Agriculture.
4. To highlight the importance of industrial development in India.
5. To examine the budget and Parallel economy in India.

Specific Course Outcomes

1. Compiling the Indian Economic Problems
2. Comparing and contrast the Five Year Plans in India.
3. Assessing the Agricultural Economy in India.
4. Analyzing Indian industrial development.
5. Discussing Budget and explain Parallel economy.

UNIT - I: INDIA - A FAST GROWING ECONOMY

(10 hrs)

Meaning of an Under Developed Economy - Basic Characteristics of Indian Economy - Major Issues of Developing Economy and Fast growing economy- India as a Mixed Economy -Structure of Indian Economy - National Income - Sectoral Contribution and Economic Transition - Services Led growth.

UNIT - II: INDIAN ECONOMIC PLANNING

(10 hrs)

Planning exercise in India - People's plan - Gandhian plan - Planning commission - Economic Planning - Rationale, Futures and Objectives - Assessment of Indian Planning - Financing of the Plans - Achievements and Failures of Economic Planning - Indian Economy: Post Liberalization - Performance and Prospects. 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 - LFP.

UNIT - IV: INDUSTRIAL DEVELOPMENT IN INDIA

(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

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

References

1. Bimal Jalan (2002) 'India's Economy in the New Millennium: Selected Essays', UBSPD, 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, Delhi.
4. Dandekar, V.M. (1996) 'The Indian Economy, 1947-92', Vol.II, Sage Publications, Delhi.
5. Government of India (2007) 'India Vision 2020' Academic Foundation, Delhi.
6. Rangarajan, C. (1998) 'Indian Economy: Essays on Money and Finance', UBS, Delhi.

DISSERTATION

Semester : IV
Course Code : 19ECOP0419

No. of Credits: 8

Objective

1. 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. Analyze the problem and draw inference.
3. Apply appropriate statistical tools and techniques.
4. Prepare a research report in a systematic manner.

Specific Course Outcomes

1. Applying appropriate research methodology in prosperity the dissertation.
2. Framing the objectives and adoping the chapters for the dissertation.
3. Explaining and testing the hypotheses framed in the dissertation.
4. Bringing a good dissertation which may be used by the future researchers.

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.

MAJOR ELECTIVE - 19ECOP03EX

HEALTH ECONOMICS

Semester : III
Course Code : 19ECOP03E1

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

Objective

1. To teach the applications of economic theories in health sector.

Specific Course Objectives of Learning

1. To become conversant with concepts and contents of health economics.
2. To gaining knowledge in taking up studies in economic issues of health sector.

Specific Course Outcomes

1. Understanding the need and importance of health Economics
2. Gain knowledge on demand for and supply and healthcare
3. Estimating the health care and planning for health sector

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

Meaning - Definition - Health - Nature and Scope of Health Economics - 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 - Health Expenditure in India - Health under Five Year Plans in India - Concept of Health Insurance - Types and Importance - Role of LIC and Private Health Insurance Sector - 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.

Text Books

1. Xavier Martinez - Giralt (2010) "Principles of Health Economics for non-economists" USA.
2. Feldstein P.J. (2004) "Health Care Economics", Thomson, London.

References

1. Berman PA and ME Khan (1993) 'Paying for India's Health Care', Sage Publications, 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, New York.

MAJOR ELECTIVE - 19ECOP03EX
PROJECT PLANNING AND EVALUATION

Semester : III
Course Code : 19ECOP03E2

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

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.

Specific Course Outcomes

1. Understanding the major concepts in Project Planning and Evaluation
2. Preparing the Projects meat for 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 (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

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.

MAJOR ELECTIVE - 19ECOP03EX

TAMILNADU ECONOMY

Semester : III
Course Code : 19ECOP03E3

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

Objective

To acquire Knowledge about Tamil Nadu Economy and its dynamics

Specific Course Objectives of Learning

3. To teach major issues in Tamilnadu demographic dimensions.
4. To offer the students with clarity on the issues of occupation and unemployment.
5. To teach the Students on the status of Agriculture in Tamil Nadu Economy.
6. To gain knowledge in taking up studies in economic issues of industry and energy.
7. To obtain familiarity of Education, Health and state finance.

Specific Course Outcomes

1. Knowing the profile of Tamil Nadu economy
2. Bring out the major social-economic problem of poverty and inequality.
3. Identifying the agriculture issues in Tamil Nadu
4. Rendering knowledge about role of industry and energy in Tamil Nadu
5. Highlight the significance of education, Health and state finance

Unit - I: Tamil Nadu Economy

(11 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

(13 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

(14 hrs)

Share of Industrial Sector on GDP - Trends and Growth - Village and Small Scale Industries - MSME - 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

14 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.

**NON- MAJOR ELECTIVES - 19ECOP02NX
INDIAN ECONOMY**

Semester : II
Course Code : 19ECOP02N1

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

Objective

1. To inculcate the knowledge on Indian Economy and resolve the problems of India.

Specific Course Objectives of learning

1. To understand the nature and structure of Indian Economy.
2. To study the Indian Economic Planning.
3. To explore the significance of Indian Agriculture.
4. To highlight the importance of industrial development in India.
5. To examine the budget and Parallel economy in India.

Specific Course Outcomes

1. Compiling the Indian Economic Problems
2. Comparing and contrast the Five Year Plans in India.
3. Assessing the Agricultural Economy in India.
4. Analyzing Indian industrial development.
5. Discussing Budget and explain Parallel economy.

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

Meaning of an Under Developed Economy - Basic Characteristics of Indian Economy - Major Issues of Developing Economy and Fast growing economy- India as a Mixed Economy -Structure of Indian Economy - National Income - Sectoral Contribution and Economic Transition - Services Led growth.

UNIT - II: INDIAN ECONOMIC PLANNING (10 hrs)

Planning exercise in India - People's plan - Gandhian plan - Planning commission - Economic Planning - Rationale, Futures and Objectives - Assessment of Indian Planning - Financing of the Plans - Achievements and Failures of Economic Planning - Indian Economy: Post Liberalization - Performance and Prospects. 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 - LFP.

UNIT - IV: INDUSTRIAL DEVELOPMENT IN INDIA (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

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

References

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

**NON- MAJOR ELECTIVES - 19ECOP02NX
GLOBALIZATION AND WTO: ISSUES AND STRATEGIES**

Semester : II
Course Code : 19ECOP02N2

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

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: 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.

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.

**NON- MAJOR ELECTIVES - 19ECOP02NX
ENTREPRENEURSHIP**

Semester : II
Course Code : 19ECOP02N3

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

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 (10 hrs)

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 (10 hrs)

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 hrs)

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 (10 hrs)

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 (9 hrs)

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.

**NON- MAJOR ELECTIVES - 19ECOP02NX
GROWTH AND DEVELOPMENT**

Semester : II
Course Code : 19ECOP02N4

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

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

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.

**NON- MAJOR ELECTIVES - 19ECOP02NX
AGRICULTURAL ECONOMICS**

Semester : II
Course Code : 19ECOP02N5

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

Objective

1. To facilitate the students to acquaint with the issues in agricultural economics, particularly in the Indian context.

Specific Course Objectives of Learning

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

Specific Course Outcomes

Students would be able

1. Recognizing problems in Indian agriculture
2. Examining the issues in Indian agriculture.
3. Planning for agricultural development.

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

Agricultural Economics: Definition, Nature and Scope - Traditional Agriculture and 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 - Problems of Farmers - Diversification -Avenues of Diversification in India: - Dairy, Poultry, Fishery and Sericulture and Horticulture.

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 of Agriculture and its impact on Labour - Production Function Analysis in Agriculture.

UNIT - IV: AGRICULTURAL FINANCE (12 hrs)

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

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 -Agricultural Price Policy - Agricultural Subsidies.

Text Books

1. Bilgrami, S.A.R. (1996) **Agricultural Economics**, Himalayas Publishing House, Delhi.
2. Kahion, A.S. and Tyagi D.D. (1983) **Agriculture Price Policy in India**, Allied Publishers, Delhi.
3. Sadhu and Singh (2013) **Fundamentals of Agricultural Economics**, Himalaya, 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 **Indian Economy**, 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. Rao, C.H. Hanumanth (1975) **Agricultural Growth, Rural Poverty and Environmental Degradation in India**, Oxford University Press, Delhi.

**NON- MAJOR ELECTIVES - 19ECOP02NX
ENERGY ECONOMICS**

Semester : II
Course Code : 19ECOP02N6

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

Objective

1. To help 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 examine nexus between energy and environment.
4. To highlight energy planning and management
5. To document the energy profile in India.

Specific Course Outcomes

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

UNIT - I: BASICS OF 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 INSTITUTIONS (10 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.

**MODULAR COURSES - 19ECOP03MX
RURAL RESOURCE MAPPING AND ANALYSIS**

Semester : III
Course Code : 19ECOP03M1

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

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.

Specific Course Outcomes

1. Identifying the rural resources including CPRS
2. Applying the tools for natural 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' Delgli Studi di Padova Facolta' Agraria, Dipartimento territorio E Sistemi Agro-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.

MODULAR COURSES - 19ECOP03MX
HUMAN DEVELOPMENT INDEX AND ITS APPLICATIONS

Semester : III
Course Code : 19ECOP03M2

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

Objective

1. To study the development indicators with special focuses on Human development

Specific Course Objective of learning

1. To understand the basic indicators of development
2. To study the different indicators for development

Specific Course Outcomes

1. Knowing the methodology for developing indicators of sustainable economic development
2. Applying the indicators in the model village development.

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 Diseses 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), 12th 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.

**MODULAR COURSES - 19ECOP03MX
PARTICIPATORY RURAL APPRAISAL**

Semester : IV
Course Code : 19ECOP04M3

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

Objective

1. To enable the students for understanding new tool for data collection

Specific Course Objective of learning

1. To understand the gross root level realities
2. To identify the issues and problems the gross root level
3. To developing skills for preparing action plan

Specific Course Outcomes

1. Knowing the different components of PRA
2. Understanding the logical frame work of peoples participation
3. Using different tools for obtaining data

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' Delgli Studi di Padova Facolta' Agraria, Dipartimento territorio E Sistemi Agro-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.

**MODULAR COURSES - 19ECOP04MX
BUDGET ANALYSIS**

Semester : IV
Course Code : 19ECOP04M1

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

Objective

1. To expose the students on various concepts in budget and also help students to critically think on budgeting.

Specific Course Objective of learning

1. To analysis the Budget of the Government of India
2. To identify the resources for fiscal deficit

Specific Course Outcomes

1. Understanding the ideology of economic survey
2. Learning capacity to understand the budget concept
3. Preparing a family budget as case

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.

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.

**MODULAR COURSES - 19ECOP04MX
ENVIRONMENTAL IMPACT ASSESSMENT**

Semester : IV
Course Code : 19ECOP04M2

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

Objective

1. To expose the students on various concepts in environmental resources and their functions.

Specific Course Objective of learning

1. To study nature and scope of environmental resources
2. To understand the different concepts of pollutions
3. To examine the impact of pollutions on environment.

Specific Course Outcomes

1. Understanding the importance of environment resources
2. Identifying the tools for environmental production
3. Study and applying the concept like EIA, EA and Environmental Accounting

UNIT - I: Environment - Types of Classification - Functions - segments - Anatomy of environmental resources

UNIT - II: Environmental resources and economic development - Exploitation of Environmental resources - strategies for consumeration- Six Rs

UNIT III: Basic concept of EIA- Elements of EIA, - factors affecting EIA, Preparation of Environmental Base map, Classification of environmental parameters. EIA Methodologies: EIA methods- Industrial Pollution - Land use: soil and ground water and Air - impact on Vegetation and wildlife, deforestation - causes and effects - forest fire - Floods, Drought, Disaster management Mechanisms.

UNIT IV: Environmental Accounting - Nature and Scope - Objectives - Procedures - Problems and prospects

UNIT V: environmental Audit - Objectives, types, stages - preparation of Audit Report.

Text Books

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

References

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

**MODULAR COURSES - 19ECOP04MX
RURAL ENERGY ASSESSMENT**

Semester : IV
Course Code : 19ECOP04M3

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

Objective

1. To understand the energy use pattern in the rural economic sector

Specific Course Objective of learning

1. To identify the different forms of energy available in the rural areas
2. To identify the types of energy consumption pattern of different economic sectors

Specific Course Outcomes

1. Understanding the energy sources and uses
2. Eliminating quantum of energy consumed by different economic sector
3. Forecasting rural policing excluding meant for rural development

Group of Students (Maximum of 5 to 6) will be provided to undergo a 100% Energy related survey in a selected village panchayat hamlet and analyze the present energy consumption pattern and the future energy requirements for all economic sector of rural economy including domestic, agriculture, industry, transport, commercial, social and service sector based upon well structured and pre-tested interview schedule. 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 panchayat hamlet 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.
3. Karpagam, M. (1991) 'Environmental Economics', Sterling, Delhi

References

1. David Pearct et al., (1990) 'Sustainable Development - Economics and Environment in the Third World', Earths Can Publications, London.
2. TERI (2019) 'Teri Energy Data Directory and Year Book 2019-2020', The Energy Research Institute, Delhi.