

Regulations and Syllabi

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

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

1. NATURE OF THE PROGRAMME

This Under Graduate Programme is designed with combination of pure and applied courses in Economics which is offered as B.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

A pass in the +2 examination in the regular stream is eligible for admission in to the B.A (Economics) Programme. Preference will be given to students who studied economics in +2 level.

3. OBJECTIVES OF THE PROGRAMME

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

- ✓ To understand the basic concepts and theories in the various branches of economics;
- ✓ To inculcate strong technical input by using statistical/Mathematical/econometrics tools and methodology;
- ✓ To gain exposure to the national and international economic issues and problems;
- ✓ To obtain Research and Development skills and Win-Win strategies for economic development; and
- ✓ To prepare personnel for civil service and Indian Economic Service examinations.

Programme Outcome (PO)

- ✓ Becoming knowledgeable in the subject matter of economics and applying the principles of economics in the society;
- ✓ Learning analytical skills in economics;
- ✓ Understanding professional ethics, community living and Nation Building initiatives;
- ✓ Identifying complex economic issues and offering solutions to them; and
- ✓ Predicting and synthesizing economic events.

Programme Specific Outcome (PSO)

- ✓ Apply the knowledge of economics in decision making;
- ✓ Solve the problems in the field of economics;
- ✓ Prepare blue print for development of various economic actors;
- ✓ Assimilate the behaviour of key variables in the Economy;
- ✓ Understand the realities of domestic as well as the global economy.

4. STUDENTS INTAKE

Number of students to be admitted for B.A, Economics Programme is 40.

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

The B.A., Economics Programme shall consist of three academic years with Six Semesters. This Programme is offered under Choice Based Credit system (CBCS) pattern and it consists of Core Courses, Electives (Discipline Centric and Generic), Language and Allied Courses.

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

Semester	Category	Courses	Course code	Title of the course	No. of Credits	Lecture hrs/week	Duration of ESE (Hours)	Evaluation		Total
								CFA	ESE	
I	Part-I	Language I (any one)	21TAMU0101	Tamil - I	3	3	3	40	60	100
			21HIDU0101	Hindi - I						
			21MALU0101	Malayalam - I						
			21FREU0101	French - I						
	Part-II	Language - II	21ENGU0101	Foundational English - I	3	3	3	40	60	100
	Part-IV	Language - III (any one)	21CHIU0001	Core Hindi -I	2	2	2	20	30	50
			21CTAU0001	Core Tamil - I						
			21CMALU0101	Core Malayalam - I						
	Part-V		21GTPU0001	Gandhi's life thought and work	2	2	2	20	30	50
			21EXNU0001	Extension Education	2	2	2	20	30	50
Part-III	Allied	21ECOU01A1	Statistics	4	4	3	40	60	100	
Part-III	Major	21ECOU0101	Microeconomics	4	4	3	40	60	100	
Part-V		21ECOU01F1	Extension / Field Visit	1	1	-	50	-	50	
			Sub Total	21	21	-	270	330	600	
II	Part-I	Language I (any one)	21TAMU0202	Tamil - II	3	3	3	40	60	100
			21HIDU0202	Hindi -II						
			21MALU0202	Malayalam - II						
			21FREU0202	French - II						
	Part-II	Language - II	21ENGU0202	Foundational English - II	3	3	3	40	60	100
	Part-IV	Language-III (any one)	21CHIU0002	Core Hindi -II	2	2	2	20	30	50
			21CTAU0002	Core Tamil - II						
			21CMALU0201	Core Malayalam - II						
	Part-V	Value added Foundation Course (any one)	21NSSU0001	National Service Scheme	1	1	-	50	-	50
			21SPOU0001	Sports						
21FATU0001			Fine Arts							
Part-V		21YOGU0001	Yoga	1	1	-	50	-	50	
Part-IV		21EVSU0001	Environmental Studies	4	4	3	40	60	100	
Part-III	Allied	21ECOU02A2	Principles of Accountancy	4	4	3	40	60	100	
Part-III	Major	21ECOU0202	Macroeconomics	4	4	3	40	60	100	
			Sub Total	22	22	-	320	330	650	
III	Part-I	Language I	21TAMU0303	Tamil - III	3	3	3	40	60	100
	Part-II	Language II	21ENGU0303	Advanced English	3	3	3	40	60	100
	Part-IV	Soft Skill	21ENGU00C1	Soft Skills	2	2	-	50	-	50
	Part-V	VPP	21EXTU03V1	Village Placement Programme	2	-	-	50	-	50
			21GTPU00H1	Human Values and Professional Ethics	1	1	-	50	-	50
	Part-III	Allied	21ECOU03A3	Human Rights	4	4	3	40	60	100
	Part-III	Major	21ECOU0303	Quantitative Techniques	4	4	3	40	60	100
			21ECOU0304	International Economics	4	4	3	40	60	100
			Sub Total	23	21	-	350	300	650	

IV	Part-V		21SHSU0001	Shanthi Sena	1	1	2	50	-	50	
	Part-IV	Skilled Based Course	21CSAU04A1	Computer Course	3	3	3	40	60	100	
	Part-III	Elective- Discipline Centric (any One)	21ECOU04D1	Energy Economics	3	3	3	40	60	100	
			21ECOU04D2	Tamil Nadu Economy							
			21ECOU04D3	Demography							
	Part-III	Elective - Generic (NME)	21ECOU04GX		3	3	3	40	60	100	
	Part-III	Allied	21ECOU04A4	Indian Constitution	4	4	3	40	60	100	
	Part-III	Major	21ECOU04O5	Introduction to Econometrics	4	4	3	40	60	100	
21ECOU04O6			History of Economic Thought	4	4	3	40	60	100		
Part-V		21ECOU04F2	Extension/Field Visit	1	1	-	50	-	50		
			Sub Total	23	23		340	360	700		
V	Part-III	Elective- Discipline Centric (any one)	21ECOU05D4	Project Planning and Evaluation	3	3	3	40	60	100	
			21ECOU05D5	Micro Level Planning							
			21ECOU05D6	Non- Banking Financial Institutions							
	Part-III	Elective Generic (NME)	21ECOU05GX		3	3	3	40	60	100	
	Part-IV	Skill Based Elective	21ECOU05S1	Soft Skills for Carrier Development	2	2	-	50	-	50	
	Part-III	Major	21ECOU05O7	Indian Economic Development	3	3	3	40	60	100	
			21ECOU05O8	Growth and Development	4	4	3	40	60	100	
			21ECOU05O9	Environmental Economics	3	3	3	40	60	100	
			21ECOU05O10	Research Methodology	3	3	3	40	60	100	
	Part-III	Modular Course	21ECOU05MX	Choose any one / MOOC	2	2	-	50	-	50	
Part-V		21ECOU05F3	Extension / Field Visit	1	1	-	50	-	50		
			Sub Total	24	24		390	360	750		
VI	Part-III	Major	Modular Course	21ECOU06MX	Choose any one / MOOC	2	2	-	50	-	50
			21ECOU0611	Industrial Economics	4	4	3	40	60	100	
			21ECOU0612	Agricultural Economics	3	3	3	40	60	100	
			21ECOU0613	Money, Banking and Public Finance	4	4	3	40	60	100	
			21ECOU0614	Computer Application in Economics	3	3	3	40	60	100	
			21ECOU0615	Internship	4	4	3	40	60	100	
			21ECOU0616	Project Work	4	4	-	100	0	100	
			Sub Total	24	24		350	300	650		
			Grand Total (I+II+III+IV+V+VI)	137	135		2020	1980	4000		

Internship: A group of three to five Students would be placed in an organization/ institution/ department for 15 days during summer. Based on performance and internship report, the students would be evaluated and awarded marks by the supervisor/ mentor (purely internal).

Dissertation: A group of three to five students is expected to conduct research project work study in Economics and to submit project report under the guidance of supervisor concerned. Marks for Project work is 100. The marks will be awarded by the supervisor concerned (purely internal).

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

Centre for Rural Energy (UG Programme - B.Voc - Renewable Energy)

1. 21REEVO537 - Energy Economics

Department of Co-operation (UG Programme)

1. 21ECOU01A1 - Business Economics
2. 21ECOU02A2 - Indian Economy

Elective- Discipline Centric 21ECOP04DX (Choose any one) - IV Semester

1. 21ECOU04D1 - Energy Economics
2. 21ECOU04D2 - Tamil Nadu Economy
3. 21ECOU04D3 - Demography

Elective- Discipline Centric 21ECOP05DX (Choose any one) - V Semester

1. 21ECOU05D4 - Project Planning and Evaluation
2. 21ECOU05D5 - Micro Level Planning
3. 21ECOU05D6 - Non Banking Financial Institutions

Elective - Generic Courses (Offered by the Department during IV and V semester for Students other than B.A., Economics)

1. 21ECOU0XG1 - Principles of Economics
2. 21ECOU0XG2 - Indian Economy
3. 21ECOU0XG3 -Tamil Nadu Economy

Modular Course 21ECOU05MX (Choose any one)-V Semester

1. 21ECOU05M1 - Infrastructure Planning
2. 21ECOU05M2 - Inclusive Planning
3. 21ECOU05M3 - Labour Economics

Modular Course 21ECOU06MX (Choose anyone)-VI Semester

1. 21ECOU06M1 - Project Planning
2. 21ECOU06M2 - Sustainable Agricultural Development
3. 21ECOU06M3 - Women Entrepreneurial Development

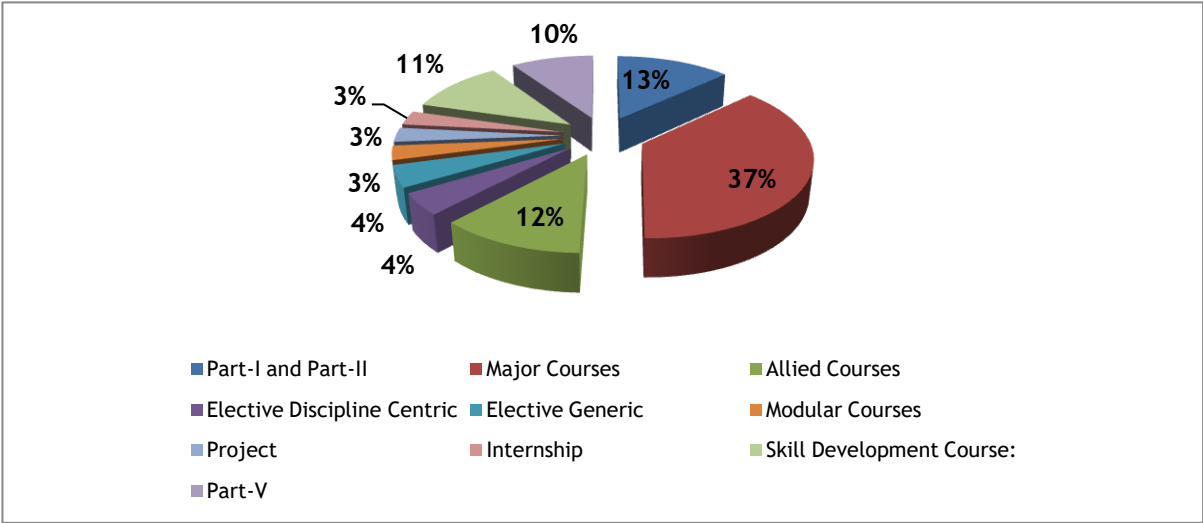
Value Added Course

1. 21ECOU0VA1 - Budgetary Analysis
2. 21ECOU0VA2- Micro Finance
3. 21ECOU0VA3- Development Organizations.

Abstract

Sl. No.	Courses	No. of Courses	No. of Credits	Percentage
1	Part-I Language : Tamil/Hindi/Malayalam/French	3	18	13.13
2	Part-II Language: English	3		
	Part-III	-	-	-
3	Major Courses	14	51	37.22
4	Allied Courses	4	16	11.67
5	Elective Discipline Centric	2	6	4.37
6	Elective Generic	2	6	4.37
7	Modular Courses	2	4	2.91
8	Project	1	4	2.91
9	Internship	1	4	2.91
	Part-IV	-	-	-
10	Environmental Studies	1	15	10.94
11	Skill Development Course: a) Computer Course	1		
12	b) Skill Based Elective	1		
13	c) Communication and Soft skills	1		
14	Language -III: Core Hindi/Tamil/Malayalam	2		
	Part-V	-	-	-
15	Gandhian Studies	1	13	9.48
16	Extension Education	1		
17	NSS/Sports/Fine Arts	1		
18	Yoga	1		
19	Shanti Sena	1		
20	Village Placement Programme	1		
21	Human Values and Professional Ethics	1		
22	Extension/Field Visit	3		
	Total	48	137	100

Distribution of Courses in Percentage



STATISTICS

Semester : I
Course Code : 21ECOU01A1

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

Objective

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

Specific Course Objectives of Learning

1. To learn the basic statistical concepts;
2. To understand sampling and use of Data;
3. To know the measures of central tendency.
4. To study measures of dispersion; and
5. To acquire knowledge of the correlation and regression analyses.

Specific Course Outcomes

1. Gaining knowledge of sampling design and classification of data.
2. Applying statistical techniques in real life situations.
3. Handling statistical data effectively in practice.
4. Utilizing the statistical tools for finding solutions of economic problems.

UNIT - I: INTRODUCTION OF STATISTICS (10 hrs)

Meaning and Definition - Characteristics, Functions, Scope and Limitations of Statistics.

UNIT - II: CLASSIFICATION OF DATA AND SAMPLING DESIGN (14 hrs)

Types of Data - Collection of Data - Schedule and Questionnaire - Population and Sample - Census and Sampling - Methods of Sampling - Size of Sampling - Advantages and Limitations of Sampling - Sampling errors and non-sampling errors - Classification and Tabulation of Data - Frequency Distribution - Diagrammatic and Graphic representation of Data.

UNIT - III: MEASURES OF CENTRAL TENDENCY (12 hrs)

Average: Definition - Objectives - Requisites of a Good Average - Types of Averages; Arithmetic Mean - Median, quartiles, deciles and percentiles - Mode - Geometric Mean - Harmonic Mean - Relationship among the Averages - Limitations of an Average.

UNIT - IV: MEASURES OF DISPERSION, SKEWNESS, AND KURTOSIS (14 hrs)

Measures of Dispersion: Meaning - Significance - Properties of a Good Measuring of Variation - Methods of Studying Variation; Range - Quartile Deviation - Mean Deviation - Standard Deviation - Lorenz Curve. Skewness and Kurtosis: Definition and Measures of Skewness; Bowley's Co-efficient - Moments - Types and Measures of Kurtosis.

UNIT - V: CORRELATION AND REGRESSION ANALYSES (14 hrs)

Meaning and Significance of Correlation - Types of Correlation - Simple Correlation - Karl Pearson's Coefficient of Correlation - Spearman's Rank Correlation - Regression Meaning and Uses - Difference between Correlation and Regression - Methods of Regression; Simple Regression - Index Numbers - Time Series Analysis.

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. 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. Damodar N. Gujarati (2009), 'Elementary of Econometrics', Mcgraw Hill, New York.
3. Gupta S.C. (2016), 'Fundamental Statistics', Himalaya Publishing House Pvt. Ltd, Delhi.
4. Murray R. Spiegel, 'Statistics' (1981), (Schaum's Outline Series), McGraw Hill, Delhi.
5. Murray Spiegel, Larry Stephens and Narinder Kumar (2017), 'Statistics' (Schaum's Outline Series), McGraw Hill, New York.
6. Nagar A.L. and R.K. Das (2006), 'Basic Statistics', Oxford University Press, Delhi.

Outcomes	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3	2	3	1
CO2	3	3	2	3	1
CO3	3	3	3	3	3
CO4	3	3	3	3	2

MICROECONOMICS

Semester : I
Course Code : 21ECOU0101

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

Objective

1. To provide the students with the theoretical foundations in microeconomic analysis.

Specific Course Objectives of Learning

1. To understand the basics of microeconomics; and
2. To associate and apply the theories and laws of microeconomics in day to day life.

Specific Course Outcomes

1. Relating the concepts and tools of microeconomics in real life situations.
2. Applying theories to microeconomic problems in the practical world; and
3. Analyzing basic issues in consumption and production, market and distribution.

UNIT - I: INTRODUCTION (12 hrs)

Economics - Meaning, Definition: Wealth, Welfare, Scarcity and Growth. Scope and limitations, Differences between Micro and Macro Economics, Approaches of Economic Analysis: Partial vs. General Equilibrium, Comparative Static and Dynamic analysis, Positive and Normative approaches. Economic Laws.

UNIT - II: DEMAND AND SUPPLY ANALYSIS (12 hrs)

Demand - Meaning, Demand Function, Types of Demand, Law of Demand, derivation of demand curve, Determinants of Demand, Elasticity of Demand, types, Measurement, Importance, Factors Determining Elasticity of Demand. Supply - Meaning, Law of Supply. Elasticity of Supply, Determinants of Supply, Derivation of Supply Curve.

UNIT - III: UTILITY ANALYSIS (12 hrs)

Cardinal Approach - Meaning, Law of Diminishing Marginal Utility, law of Equi-Marginal utility, Consumer's Surplus. Ordinal Approach - Indifference Curves - Meaning, Assumption Properties, Consumer Equilibrium - Superiority of Cardinal Utility.

UNIT - IV: COST, REVENUE AND PRODUCTION ANALYSIS (14 hrs)

Cost: Meaning, types of cost - Relationship between AC and MC. Revenue: Meaning, different types of Revenue, Relation between Average Revenue and Marginal Revenue - Break Even Point Analysis. Factors of Production - Meaning of land, Labour, Capital and Organization and features only. Law of variable proportion, Laws of returns to scale.

UNIT - V: MARKET AND THEORY OF DISTRIBUTION (14 hrs)

Perfect and Imperfect competition - Meaning, Features. Monopoly and Monopolistic competition - Meaning and Features, Price and Output Determination. Marginal productivity theory of distribution - Rent - Meaning and Features, Ricardian theory of rent, Quasi-rent. Wages - Meaning, Types, Determinants of Real Wages, Wage Fund Theory, Subsistence Theory. Interest - Meaning, Types, Classical theory of Interest, Loanable Fund Theory, Liquidity Preference theory of Interest. Profit - Meaning, Types, Risk Theory of profit, Uncertainty bearing theory, Innovation theory.

Text Book

1. Ahuja, H.L. (2002) 'Principles of Micro Economics', 12th Edn, S.Chand and Company Ltd., Ram Nagar, Delhi.

References

1. Koutsoyiannis, A. (2000), 'Modern Microeconomics, (2nd Edition), Macmillan Press, London.
2. Layard, P.R.G. and Walters, A.W. (1978), 'Microeconomic Theory, McGrawHill, London.
3. Stigler, G. (1996), 'Theory of Price, PHI, Delhi.
4. Sen, A. (1999), 'Microeconomics: Theory and Application, Oxford University Press, Delhi.
5. Varian, H.R. (2000), 'Microeconomic Analysis, W.W. Norton, New York.

Outcomes	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	2	3	3	2
CO2	3	3	2	3	2
CO3	3	3	2	3	2

MACROECONOMICS

Semester : II
Course Code : 21ECOU0202

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

Objective

1. To make the students understand the concepts and theories of macroeconomics

Specific Course Objectives of Learning

1. To gain clarity in the concepts in macroeconomics;
2. To get exposure to the working of macroeconomics; and
3. To analyze the relationship across macroeconomic variables.

Specific Course Outcomes

1. Explaining the concepts in macroeconomics;
2. Recognizing institutions and actors in the operation of macroeconomics; and
3. Analyzing the relationship among macroeconomic variables.

UNIT - I: NATURE AND IMPORTANCE OF MACROECONOMICS AND NATIONAL INCOME (12 hrs)

Macroeconomic - Meaning, Concepts, Nature and scope - Distinction between Macro economic and Microeconomics - Importance - Circular flow of income - National Income- Concepts - Measurement of National Income and its difficulties - Factors determining National Income

UNIT - II: THEORY OF EMPLOYMENT (12 hrs)

Concept of Full Employment and Unemployment- Types of unemployment - Classical Theory of Employment - J.B. Say's law of market - J.M. Keynes theory of employment : Effective demand and its importance.

UNIT - III: CONSUMPTION, SAVING AND INVESTMENT FUNCTION (14 Hrs)

Consumption function - Concepts of, APC and MPC - Determinants of consumption function- Saving Function -APS and MPS- Investment- Meaning, Types, factors affecting Investment - Marginal Efficiency of Capital - Meaning - Factors determining MEC.

UNIT - IV: PRINCIPLES OF ACCELERATION AND MULTIPLIER (14 Hrs)

Accelerations- Meaning, Concepts - Significance and Limitations; Multiplier-Meaning concepts-different types - working of multiplier and criticisms - Super multiplier.

UNIT - V: THEORIES OF THE BUSINESS CYCLE (12 Hrs)

Business cycle - Meaning - Characteristics - Phases of Business cycle-Theories of Business cycle - Samuelsons - Hicks- Inflation, Deflation - Monetary and Fiscal policies in controlling business cycle.

Text book:

1. Ahuja.H.L., (2002) 'Macroeconomics Theory and Practice', S.Chand & Company Ltd., Delhi, 2002.

Reference books:

1. Abha Mittal, (2011) 'Macroeconomics', S. Chand & Company Pvt. Ltd..
2. Chandana Ghosh, Ambar Ghosh., (2013) 'Macroeconomics', PHI Learning Pvt. Ltd., Delhi.
3. Dwivedi D.N, (2010) 'Macroeconomics: Theory and Policy', Tata McGraw Hill, Delhi.
4. Gregory Mankiw, N., (2012) 'Macroeconomics', Worth Publishers.
5. Jhingan M.L (2010) 'Macroeconomics', Himalaya Publishing House, Delhi.
6. Malhotra R.N, (2009) 'Macroeconomics theory and practice', Alfa publication.
7. Maria John Kennedy M, (2011) 'Macroeconomics Theory', PHI Learning Pvt. Ltd., Delhi.

Outcomes	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	2	3	2	3	3
CO2	3	1	1	2	3
CO3	3	2	2	3	3

QUANTITATIVE TECHNIQUES

Semester : III
Course Code : 21ECO0303

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

Objective

To train the students in the use of mathematical approaches in economic analyses.

Specific Course Objectives of Learning

1. To understand the basic concepts and functions of mathematics.
2. To understand the simultaneous equation models.
3. To gain clarity in fundamental concepts of logarithm, permutations and combinations.
4. To learn the set theory for economic operations.
5. To know the uses of matrix.

Specific Course Outcomes

1. Expressing the economic relationships in different forms of mathematical functions.
2. Applying the simultaneous equations in economic research.
3. Calculating logarithm, permutations and combinations.
4. Examining the set theory for economic operations.
5. Applying the matrix principles in economic analyses.

UNIT - I: INTRODUCTION TO ALGEBRA AND FUNCTION (14 Hrs)

Elementary Algebra - Constant - Variable - Meaning and Types of Function: Linear - Quadratic - Cubic - Exponential - Logarithmic - Equations of Straight Line: Slope-Intercept Form - Slope - Point Form - Two Point Form - Intercept Form - General Form.

UNIT - III: SIMULTANEOUS EQUATIONS (10 Hrs)

Meaning - Simultaneous Linear Equations: Solving Two Variables Simultaneous Equations - Solving Three Variables Simultaneous Equations.

UNIT - III: LOGARITHM, PERMUTATIONS AND COMBINATIONS (14 Hrs)

Introduction of Logarithm - Rules of Logarithm: Product - Quotient - Exponent - Permutations and Combination - Simple Problems - Binomial Expansion.

UNIT - IV: SET THEORY (12 Hrs)

Meaning - Types of Set - Representation of a Set - Set Operations - Properties of Set: Commutative - Associative - Distributive - De Morgan - Applications of Set.

UNIT - V: MATRICES (14 Hrs)

Meaning - Types of Matrix - Algebra of Matrices: Addition - Subtraction - Multiplications - Transpose of a Matrix - Inverse of a Matrix - Solving a System of Linear Equations: Matrix Inversion Technique and Cramer's Rule.

Text Books

1. Agarwal C.S and. Joshi R.C, (1983) 'Mathematics for Economists', The New Academic Publishing Jalandhar.
2. Bose. D, (2019) 'An Introduction to Mathematical Methods', Himalaya Publishing House, Delhi.
3. Metha, B.C. & Madnani G.M.K. (2017) Mathematics for Economics, S. Chand Publications, New Delhi.

References

1. Allen R.G.D, (1986), Mathematical Analysis for Economists, Macmillan, London.
2. Alpha C Chiang and Wainwright Kevin (2017), 'Fundamental Methods of Mathematical Economics', McGraw Hill Education, New Delhi.
3. Anthony (2005) 'Mathematics for Economics and Finance', Cambridge University Press, London, UK.
4. Handry A.T. (1999), Operations Research, PHI, New Delhi.
5. Sydsaeter Knut and Peter Hammond (2006), Essential Mathematics for Economic Analysis, 2nd Ed. Financial Times, Prentice Hall: Harlow, England.

Outcomes	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	2	2	3	1
CO2	3	3	2	2	2
CO3	2	3	2	3	2
CO4	3	3	2	3	2
CO5	3	3	2	3	2

INTERNATIONAL ECONOMICS

Semester : III
Course Code : 21ECOU0304

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

Objective

To expose the students to the principles and theories of international trade.

Specific Course Objectives of Learning

1. To understand the basic concepts of international trade.
2. To study theories of international trade.
3. To examine the balance of payments in international trade.
4. To learn the exchange rate in international trade.
5. To understand the concepts of tariffs and import quotas.

Specific Course Outcomes

1. Assessing the gains from international trade.
2. Applying the theories of international trade in the context of globalization.
3. Examining the balance of payments for economic growth.
4. Evaluating the significance of exchange rate in international trade.
5. Examining the role of tariffs and import quotas in trade.

UNIT - I: INTRODUCTION TO INTERNATIONAL TRADE

(12 Hrs)

Meaning - Distinguishing between Internal Trade and International Trade - Advantages - Disadvantages - Current International Economic Problems - Production Possibility Curve - Commodity Indifference Curve - Offer Curve - Trade Indifference Curve.

UNIT - II: THEORIES OF INTERNATIONAL TRADE

(12 Hrs)

Adam Smith's Theory of Absolute Cost Advantage - David Ricardo's Theory of Comparative Advantage - Heberler's Theory of Opportunity Costs - Mill's Theory of Reciprocal Demand - Heckscher - Ohlin Theory of Trade.

UNIT - III: BALANCE OF PAYMENTS (BOP)

(14 Hrs)

Meaning of Balance of Trade and Balance of Payments - Components of BOP - Causes of Disequilibrium in BOP - Measures to Correct the Disequilibrium in BOP - Adjustments Mechanisms of BOP: Automatic Price Adjustment under Gold Standard and Flexible Exchange Rates - Expenditure Changing Monetary and Fiscal Policies.

UNIT - IV: EXCHANGE RATE

(14 Hrs)

Meaning of Exchange Rate - Currency Depreciation and Appreciation - Devaluation and Revaluation - Demand and Supply of Foreign Exchange - Determinants of Equilibrium Exchange Rate - Change in Exchange Rate - Causes of Changes in Exchange Rate - Types of Exchange Rates - Foreign Exchange Market.

UNIT - V: TARIFFS AND IMPORT QUOTAS

(12 Hrs)

Tariffs: Meaning - Types - Effects - Import Quotas: Meaning - Objectives - Types - Effects - Import Quotas versus Tariffs - Free Trade and Protection.

Text Books

1. Bosodersten and Geoffrey Read, (2013) 'International Economics', Macmillian Press Ltd., Hampshire, London.
2. Rana K.C and Verma K.N. (2008) 'International Economics', Vishal Publishing Company, Jalandhar, India.
3. Salvatore D (2014) 'International Economics', John Willey & Sons, Singapore.

References

1. Bhagwati. J (1981), International Trade, The MIT Press; second edition.
2. Dana. M.S (2000), International Economics, Rout ledge Publications, London.
3. Feenstra. R. (2009) Advanced International Trade: Theory and Evidence, Princeton University Press.
4. Mannur, H.G (2000) 'International Economics', Vikas Publishing, Delhi.
5. Paul Krugman, Maurice Obstfeld and Marc Melitz (2018) 'International Economics: Theory and Policy', Pearson India Education Services Limited, United Kingdom.

Outcomes	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3	2	3	3
CO2	3	3	2	3	3
CO3	3	3	2	3	3
CO4	3	3	2	3	3
CO5	3	3	2	3	3

**Elective - Discipline Centric
ENERGY ECONOMICS**

Semester : IV
Course Code : 21ECOU04D1

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

Objective

1. To make the students understand the basics of energy economics.

Specific Course Objectives of learning

1. To understand the dynamics of natural resources and energy.
2. To study relationship between energy and development.
3. To examine nexus between energy and environment.
4. To gain skills energy planning and management

Specific Course Outcomes

1. Understanding the concepts of energy economics.
2. Learning the nexus between energy consumption and economic development.
3. Examining the significance of energy conservation and management.
4. Gaining skills to compile the profile of various energy sources in India.

UNIT - I: INTRODUCTION TO ENERGY ECONOMICS (9 hrs)

Energy Resources - Classification - Properties and Forms of Energy - Energy Economics - Origin, Nature and Scope.

UNIT - II: ENERGY AND DEVELOPMENT (10 hrs)

Energy and Economic Development - Energy Indicators - Energy Intensity and Energy Elasticity National and International Comparison - Per capita Energy and per capita Income.

UNIT - III: ENERGY AND ENVIRONMENT (9 hrs)

Energy Nexus Environment Crisis - Causes and Consequences - Remedial Measures - Impact of Energy Consumption and production on Environment.

UNIT - IV: ENERGY MANAGEMENT (10 hrs)

Energy management - Objectives and Importance - Energy Conservation - Issues and Challenges.

UNIT - V: INDIAN ENERGY SECTOR (10 hrs)

Indian Energy Sector - Organizational Structure - Energy Supply and Demand in India - Renewable energy Programmes in India.

Text Books

1. Agarwal, S.K. (1985) 'Environment and Natural Resources Economics', Scott Foresman & Co., London.
2. Common, M. (1985) 'Environment and Resource Economics', London.
3. R. Perman, Y. Ma, J. Mc Gilvray, M. Common (2003) 'Natural Resource and Environmental Economics' Pearson, 3rd edition.

References

1. Agarwal, M.C. and Monga, J.R. (1992) 'Economic and Commercial Geography', National Publishing House, Delhi
2. Anandan, M. and Ramaswamy, S., (2016) 'Oil Economics' MJP Publishers, Delhi.
3. Kneese, A.V and Sweeny, J.L, eds, (1993) 'Handbook of Natural Resource and Energy Economics', North Holland, Amsterdam, pp.61-124.
4. Munasinghe, M. and Meier, P (1993) 'Energy Policy and Modelling', Cambridge University Press, UK
5. Ramaswamy, S. and Anandan, M., (2019) 'Energy Development Issues and Policies' MJP Publishers, Delhi.
6. Richard Eden (1981) 'Energy Economics - Growth, Resources and Policies', Cambridge University Press, London.
7. TERI (2019) 'Teri Energy Data Directory and Year Book 2018 - 19', The Energy Research Institute, Delhi.

Outcomes	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	2	2	2	3	3
CO2	3	2	2	3	3
CO3	3	3	2	3	3
CO4	2	3	3	3	3

**Elective - Discipline Centric
TAMIL NADU ECONOMY**

Semester : IV
Course Code : 21ECOU04D2

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

Objective

1. To make the students understand the growth process of Tamil Nadu economy.

Specific Course Objectives of Learning

1. To understand the dynamics of Tamil Nadu economy;
2. To study the agriculture sector;
3. To know the industrial sector;
4. To obtain familiarity with state finance; and
5. To get acquainted with the development programmes of Tamilnadu.

Specific Course Outcomes

1. Knowing the profile of Tamil Nadu economy.
2. Identifying the agriculture issues in Tamil Nadu.
3. Knowing about the industrial performance in the state.
4. Acquiring the knowledge of state finance in Tamil Nadu.
5. Acquaintance with the development programmes in the state.

UNIT - I: PROFILE OF TAMIL NADU (9 hrs)

Tamil Nadu Geographical Areas - Location - Physical Division - Demographic Profile of Tamil Nadu - Human Development Index - State Domestic Product - Structure - Contribution.

UNIT - II: AGRICULTURAL SECTOR (10 hrs)

Land use and cropping patterns - Principal Crops - Sources of irrigation - Agricultural Labour Force - Agricultural Marketing - Defects, Remedial Measures - Regulated market - Agricultural Finance - Trends and Problems.

UNIT - III: INDUSTRIAL SECTOR (10 hrs)

Industrial Development Major Industries - MSME, Cottage and Village Industries - Ancillary Industries - Handloom Industries - Government's role in Industrial Development - Industrial Financial Institutions - Labour Welfare Measures.

UNIT - IV: STATE FINANCE (10 hrs)

State Finance - Revenue and Expenditure of the State - Tamil Nadu's Recent Budget - Health Care and other Government Schemes - Unemployment Problem.

UNIT - V: DEVELOPMENT PROGRAMMES (9 hrs)

Development Programmes: Poverty Alleviation Programmes - Panchayat Raj Institution - Tamil Nadu Educational Policies - Public Distribution System.

Text books

1. Leonard, A.J., (2006), 'Tamil Nadu Economy', Macmillan India Ltd, Delhi.
2. MIDS, (1995), 'Tamil Nadu Economy', MIDS, Chennai.

References

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

Outcomes	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	2	2	3	3	3
CO2	3	3	2	3	3
CO3	2	2	2	2	3
CO4	2	2	2	2	3
CO5	2	2	2	2	3

**Elective - Discipline Centric
DEMOGRAPHY**

Semester : IV

Course Code :21ECOU04D3

No. of Credits : 3

No. of Hours : 48

Objective:To enlighten the students in various aspects of demography with reference to India.

Specific Course Objectives of Learning

1. To get exposed to various concepts of demography.
2. To gain understanding on the the population policy of India.
3. To acquire skills in techniques of demographic analysis.

Specific Course Outcomes

1. Understanding various concepts of demography.
2. Searching and accessing demographic data from various sources.
3. Gaining skills to take up demographic studies.

UNIT I: INTRODUCTION (10 hrs)

Population Study and Demography; its relation with other disciplines - Theories of Population: Malthus, Optimum theory of population, and Theory of Demographic Transition - Trends in Population Growth in Developed and Developing Countries.

UNIT II: SOURCES OF DEMOGRAPHIC DATA IN INDIA (9 hrs)

Sources of Demographic data in India: Census - Civil Registration System and Demographic Surveys, National Family Health Survey (4 and 5) - their relative merits and demerits.

UNIT III: TECHNIQUES OF ANALYSIS (10 hrs)

Crude Birth and Death Rates, Age specific Birth and Death Rates, Standardized Birth and Death Rates- Study of Fertility; Total Fertility Rate - Mortality - Measures - Infant and Child Mortality - Factor Influencing Mortality - Study of Marital Status – Life Table and its uses -Temporal and Spatial Variation in Sex Ratios.

UNIT IV: POPULATION PROJECTION (9 hrs)

Techniques of population Projection - Concept of Stationary, stable and Quasi-stationary Population - Methods of forecasting - Problems of demographic forecasting -Aging of population in India - Changes in Family Structure and Old Age Security.

UNIT V: POPULATION POLICY (10 hrs)

Salient features of Census Analysis 1971 to 2011 - Evolution and Changes of Population policy in India - Demographic status and household behavior - Education Women's Autonomy and Fertility- Population, Health, Poverty and Environment Linkage in India -Migration - Urbanization - The New population Policy.

Text book

1. Agarwal, S.N. (1985), **India's Population Problem**, Tata McGraw-Hill, Bombay.
2. Bhende, A. and T.R. Kanitkar (1982), **Principles of Population Studies**, Himalaya Publishing House, Bombay.
3. Agarwala, U.D. (1999), **Population Projections and their Accuracy**, B.R. Publishing Corporation, New Delhi.
4. Bogue, D. J. (1971), **Principles of Demography**, John Wiley, New York.

References

1. Bose, A. (1996), **India's Basic Demographic Statistics**, B.R. Publishing Corporation, New Delhi.
2. Census of India, **Government of India, Various Reports**, New Delhi.
3. Choubey, P.K. (2000), **Population Policy in India**, Kanishka Publications, New Delhi.
4. Misra, B.D. (1980), **An Introduction to the Study of Population**, South Asian Publishers, New Delhi.
5. Srinivasan, K. (Ed.) (1999), **Population Policy and Reproductive Health**, Hindustan Publishing Corporation, New Delhi.

Outcomes	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	2	1	2	2	3
CO2	3	3	3	2	3
CO3	3	3	3	3	3

INTRODUCTION TO ECONOMETRICS

Semester : IV
Course Code : 21ECOU0405

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

Objective

1. To make the students understand the basic concepts in econometrics and to empirically verify economic relationships.

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 basic econometrics models.
2. Utilizing appropriate econometric tools
3. Forecasting the economic growth and development
4. Assessing the economic conditions
5. Analyzing the relationship between various using appropriate models and mathematical techniques.

UNIT - I: MODELS AND METHODOLOGY (14 hrs)

Econometrics - Meaning -Nature and Scope- Goals - Relationship between Economic theory- Mathematics and statistics - Economic and Econometrics models - Methodology of Econometrics

UNIT - II: SIMPLE LINEAR REGRESSION MODEL (10 hrs)

Simple linear Regression model- meaning - Function - Two variable case - linear stochastic regression model - Gauss Markov theorem

UNIT-III: MULTIPLE LINEAR REGRESSION MODEL (12 hrs)

Multiple Linear Regression Model- Meaning - Properties of OLS Estimates - Goodness of fit - R Square and adjusted R Square

UNIT - IV: PROBLEMS IN ECONOMETRICS (14 hrs)

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

UNIT - V: DUMMY VARIABLES (14 hrs)

Dummy Variables: Meaning - Uses - Significance- Dummy Variable Model - Dummy Variable Trap

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. Christopher Dougherty (2011) 'Introduction to Econometrics' oxford University Press, New Delhi.
4. Koutsoyiannis A (1992), 'Theory of Econometrics: An Introductory Exposition of Econometric Methods', McMillan, Chennai.
5. Koutsoyiannis A (1999), 'Theory of Econometrics', Palgrave Publishers Ltd, Newyork.
6. 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.
4. Shyamala, Navdeep Karur and Arul Pragasam (2013) 'Econometrics' Vishal Publishing Co, New Delhi.

Outcomes	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	2	2	3	3
CO2	3	3	3	3	3
CO3	3	3	3	3	3
CO4	3	3	3	3	3
CO5	3	3	2	3	3

HISTORY OF ECONOMIC THOUGHT

Semester : IV
Course Code : 21ECOU0406

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

Objective

- To make the students understand the concepts and history of economic thought

Specific Objectives of Learning

- To provide the students with clarity in the concepts in economic ideas
- To understand the evolution of modern economic thought.
- To enable them to forecast the future trends of economics.
- To inculcate Indian economic thinkers.
- To become aware government policies and schemes from the perspectives of Indian economic thinkers

Specific Course Outcomes

- Gaining knowledge of the origin and development of economic ideas
- Understanding the differences Mercantilism and Physiocracy.
- Understanding the influence of classical economic ideas
- Acquiring a comprehension of the Keynesian economic ideas.
- Analyzing and understand the government policies from the perceptions of Indian economic thinkers.

UNIT - I: ANCIENT ECONOMIC THOUGHT (12 hrs)

Nature and Significance of Economic Thought - Economic Ideas of Hebrews, Plato, Aristotle and Roman-Kautilyas' Arthashastra and Thiruvalluvar.

UNIT - II: MERCANTILISM AND PHYSIOCRACY (12 hrs)

Mercantilism- General Outline and factor that gave rise to Mercantilism - Role of State, Money, Interest, Trade - Representatives of Mercantilist - Decline of Mercantilism- Factor that gave rise to Physiocrats - Main ideas Physiocrats - Representatives of Physiocrats.

UNIT - III: CLASSICAL ECONOMICS AND MARXISM (14 hrs)

Adam Smith - Thomas Robert Malthus - David Ricardo - J.B. Say, J.S.Mill- Alfred Marshall - Wiksell - J.B.Clark - Irving Fisher - Taussig - J.A.Schumpeter- Karl Marx.

UNIT - IV: KEYNESIAN ECONOMICS (12 hrs)

Economic ideas of Keynes: Aggregate economy, Liquidity Preference Theory and Liquidity Trap- Role of fiscal policy: deficit spending and public works.

UNIT - V: RECENT INDIAN ECONOMIC THOUGHT (14 hrs)

M.K.Gandhi - Jawaharlal Nehru - B.R.Ambedkar - J.C.Kumarappa - V.K.R.V.Rao - A.K. Sen - Abijit.

Text Books

- Charles and Charles Rist, (2007) 'History of Economic Doctrines' D.C. Heath and Company, New York.
- Lokanathan, V. (2018) 'A History of Economic Thought', S.Chand Publishing, Delhi.
- Paul, R.R. (2015) 'History of Economic Thought', Kalayni Publishers, Delhi.

References

- Alexander Gray, M.A, (1980) 'The Development of Economic Doctrine - An IntroductorySurvey', Longman Green and Co, London.
- Fellner, W.,(1960) 'Emergence and Content of Modern Economic Analysis' McGraw Hill, New York.
- Joseph A.Schumpeter (2006) 'History of Economic Analysis' Taylor & Francis e-Library, London.
- Lewis H. Haney (2012) 'History of Economic Thought', The Macmillan Company, New York.
- Madan G R (1966), 'Economic Thinking In India', S Chand and Company, Delhi.
- Madan, G R and Dhooria H S (1963), 'The History and Development of Economic Thought', S.Chand Publishing, Delhi.

Outcomes	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	1	1	1	3	3
CO2	1	1	1	3	3
CO3	1	1	1	3	3
CO4	1	1	1	3	3
CO5	3	3	2	3	3

ELECTIVE DISCIPLINE CENTRE - 21ECOU05DX

PROJECT PLANNING AND EVALUATION

Semester : V
Course Code : 21ECOU05D4

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

Objective

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

Specific Course Objectives of Learning

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

Specific Course Outcomes

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

UNIT - I: PROJECT - BASIC CONCEPTS (10 hrs)
Project - Concepts, characteristics, classification - project life cycle - Identification selection of Project.

UNIT - II: PROJECT FORMULATION (10 hrs)
Project formulation - Methodology - Project feasibility: Techno - economic - Input - project design and network - financial -social cost benefit and environmental feasibility analysis.

UNIT - III: PROJECT APPRAISAL (8 hrs)
Project Appraisal - Methodology - Appraisal of different feasibility analyses - Criteria for project Appraisal - Discounted and un-discounted techniques.

UNIT - IV: PROJECT MONITORING (8 hrs)
Project Monitoring - Aspects to be Covered - Designing and operating the monitoring system - Tools - Rate of Disparity and Milestone approach.

UNIT - V: PROJECT EVALUATION (12 hrs)
Project Evaluation - Need - Criteria, performance indicators, evaluating operational efficiency - Impact of the project - Evaluating the worthiness of project - project replication.

Text Books

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

References

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

Outcomes	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	2	2	3	3
CO2	3	3	3	2	3

ELECTIVE DISCIPLINE CENTRE - 21ECOU05DX

MICRO LEVEL PLANNING

Semester : V
Course Code : 21ECOU05D5

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

Objective

1. To enable students acquire theoretical and practical knowledge of Micro Level Planning.

Specific Objectives of Learning

1. To understand the dynamics of planning;
2. To develop aptitude towards MLP;
3. To acquire skills in social mapping and selection of planning techniques for analyzing the problem;
4. To develop understanding over decentralized planning system; and
5. To get exposure in experiments in MLP.

Specific Course Outcome

1. Understanding the concept of Planning.
2. Learning to form a model of MLP.
3. Becoming aware of the tools and techniques used in MLP.
4. Creating awareness the understanding of decentralized strategies in planning.
5. Studying MLP experiments in different countries.

UNIT - I: INTRODUCTION TO PLANNING

(9 hrs)

Planning - meaning - need - Types of Planning - Stages of planning - controls in planning - structure and functioning of Planning Commission and their role - NITI Ayog - Top down approach.

UNIT - II: MICRO LEVEL PLANNING

(9 hrs)

Micro Level Planning: meaning - Components of MLP - Imperatives stakeholders of MLP and their roles - Constraints and limitations of MLP - Model format of MLP plan.

UNIT - III: TOOLS AND TECHNIQUES USED IN MICRO LEVEL PLANNING

(11 hrs)

Tools for Data: Observation, Interviews, Survey, case studies, rating scales, Likert and Thurstone. Sociometry, PRA tools, focussed group discussion, social mapping, preference ranking - participatory mapping - livelihood achievers - resource inventions. Planning Techniques: Gnatt chart, Pie charts, Trend analysis, mapping and modelling, seasonal calendar, Malady - remedy analysis, problem analysis.

UNIT - IV: EVOLUTION OF DECENTRALISED PLANNING

(10 hrs)

Decentralization - context and concept- Evolution of Panchayati Raj System in India - 73rd Amendment Bill - features - Tamil Nadu Panchayati Raj Act of 1994. Bottom up approach - Gram Sabha and People Planning. Decentralised strategies in planning for rural development programmes.

UNIT - V: EXPERIMENTS IN MLP

(9 hrs)

Foreign experiments: Bangladesh, Indonesia, Nepal, Philippines, Srilanka. MLP experiments in India and states of union.

Text Books

1. Seth, M.L., (1987), 'Theory and Practice of Planning'. S. Chand & Co., Delhi.
2. Misra, R. P., Urs, D. V and Nataraj, K. V., Eds.,(1978), 'Regional Planning and National Development' VP, Delhi.
3. Kundu, A, etal. (1976), 'Micro Level Planning', K. B. Publication, Delhi.
4. Vanitha, P., (2019), 'Micro Plan for Village Development: An exercise in the area of Decentralized Planning', Shanlax Madurai.

References

1. Glasson. J., (1974), 'An Introduction To Regional Planning - Concepts, Theory and Practice', Hutchinson and Co., London.
2. Mathur, P. C., and Rakesh Looja, (1997), 'District and Decentralised Planning', D. K. Publishers, New Delhi
3. Muni Rathna Naidu, K., (1984), 'Area Planning for Regional Development' D. K. Publishers, New Delhi
4. Narayanasamy, N., (2009), 'Participatory Rural Appraisal - Principles, Methods and Application', New Delhi
5. Pandey, A. K., (1986), 'Local Level Planning and Rural Development', Mittal Publication, New Delhi
6. Prasanna Chandra, (1995)'Projects: Planning Analysis, Selection, Implementation and Review', Tata Mc Graw - Hill P, New Delhi
7. Vinay Kumar Saraf, 'Area Development Programme Policy analysis, D. K. Publishing House, New Delhi

Outcomes	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	2	2	2	2	2
CO2	2	3	3	2	2
CO3	3	3	2	2	2
CO4	2	2	3	2	2
CO5	2	2	2	2	2

ELECTIVE DISCIPLINE CENTRE - 21ECOU05DX
NON - BANKING FINANCIAL INSTITUTIONS

Semester: V
Course Code: 21ECOU05D6

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

Objective:

This subject aims at enlightening the students on financial institutions and services.

Course Specific Objectives:

1. To understand the basics of financial system.
2. To gain knowledge of money and capital markets.
3. To learn about non-banking financial intermediaries.
4. To gain knowledge on working of financial services institutions.

Course Specific Outcomes:

1. Knowing basics of finance system.
2. Acquainting with the knowledge of money markets.
3. Recognizing the capital markets.
4. Observing the operations of non-banking financial intermediaries and institutions.

UNIT - I: INTRODUCTION TO FINANCIAL SYSTEM (9 hrs)

Meaning - Nature - Role - Functions - Financial System and Financial Services - Financial System and Economic Development - Indian Financial System - Globalization of Financial Markets.

UNIT-II: MONEYMARKET (10 hrs)

Meaning - Features - Instruments - Working - Functions - Characteristics of an underdeveloped Money Market - Characteristics of a Developed Money Market.

UNIT-II: CAPITALMARKET (10 hrs)

Meaning - Features - Functions - Distinction between Money and Capital Markets - Interrelationship between Money and Capital markets - NSE - BSE - SEBI and Regulations of Primary and Secondary.

UNIT-IV: NON-BANKING FINANCIAL INTERMEDIARIES (10 hrs)

Meaning - Role - Functions - Non-Banking Financial Intermediaries and Monetary Policy - Distinction between Banks and Non-Banking Financial Intermediaries - Source of Finance - Investment Policies of Non-Banking Financial Institutions in India.

UNIT-V : FINANCIAL INSTITUTIONS (9 hrs)

IMF - World Bank - Asian Development Bank - RBI - NABARD - IRDI - IDBI.

Text Books

1. Bhole L.M. (2009), Financial Institution and Markets, Tata McGraw Hill, New Delhi.
2. Jhingan. M.L. (2012), Monetary Economics, Vrinda Publications Pvt. Ltd., New Delhi.

References:

1. Auerbach Robert D. (2012), Finance Markets and Institutions, Macmillan Publishing Co. Inc., New York.
2. Bhole M.K. (2015), Financial Markets and Institutions, Macmillan Publishing Co. Inc., New York.
3. Khan M.Y (2019), Financial Services, Tata McGraw Hill, New Delhi.
4. Meir Kohn (2008), Financial Institutions and Markets, McGraw Hill Publishing Company, New York.
5. Thummuluri Siddaiah (2011), Financial Services, Dorling Kindsley Pearson Education India, New Delhi.

Outcomes	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	2	2	2	3	2
CO2	2	2	1	3	3
CO3	3	3	2	2	3
CO4	2	2	2	3	3

SKILL BASED ELECTIVE
SOFT SKILLS FOR CAREER DEVELOPMENT

Semester : V
Course Code : 21ECOU05S1

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

Objective:

1. To equip the students with skills for personal and career life.

Specific Course Objectives of Learning:

1. To obtain inputs for keeping right attitude towards career.
2. To gain skills in inter personal relationship.
3. To hone communication skills for professional management and preparing for career.

Specific Course Outcomes:

1. The students shall be able to unfold the importance of a wide range of soft skills.
2. They will learn to apply these skills in a wide range of social and professional environments.

Unit I: Introduction to Soft Skills

(6 hrs)

Soft skills - meaning and components, Self-discovery - Developing positive attitude - Improving perceptions - motivation and importance of self-confidence.

Unit II: Interpersonal Skills

(6 hrs)

Need for developing interpersonal relationship - Team building - group dynamics - Net working - Improving work relationship.

Unit III: Communication Skills

(8 hrs)

Types of communication - Importance of Effective communication - Art of listening - Art of reading - Art of speaking - Art of writing - Art of writing e-mails - e mail etiquette, presentation, visual presentation skills.

Unit IV: Career Skills for Professional Management

(6 hrs)

Developing personality - developing body language - Practicing etiquette and mannerism - Time management - Stress management.

Unit V: Preparing for Job

(6 hrs)

Preparing resume / CV - interview skills - Group discussion - Mock interview - Mock GD - Importance of goal setting - Career planning.

References

1. Alex K. (2012) Soft Skills - Know Yourself & Know the World, S.Chand & Company LTD, Ram Nagar, New Delhi- 110 055.
2. Colemon - Daniel (2006) Emotional Intelligence, Bantaron Book.
3. Dhanavel S.P; (2015) Communication and softskills, Mainspring Publishors, Chennai.
Meena.K and V.Ayothi (2013) A Book on Development of Soft Skills (Soft Skills : A Road Map to Success), P.R. Publishers & Distributors, No, B-20 & 21, V.M.M. Complex, Chatiram Bus Stand, Tiruchirappalli- 620002.

Outcomes	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	1	1	1	1	1
CO2	1	1	1	2	3

INDIAN ECONOMIC DEVELOPMENT

Semester : V
Course Code : 21ECOU0507

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

Objectives:

1. To make students acquire knowledge about Indian Economic Development and its dynamics.

Specific Course Objectives of Learning

1. To learn major issues in Indian demographic dimensions.
2. To gain clarity on the issues of poverty and unemployment.
3. To understand and evaluate Economic planning in India.
4. To explore the significance of sectors of Indian Economy.

Specific Course Outcomes

1. Identifying the major social economic problems of the country and developing strategies to address them.
2. understanding estimation of unemployment and measurement of poverty
3. Realizing the importance of effective planning and gaining skills to evaluate planning.
4. Examining the contribution and trends of sectors of Indian Economy.

UNIT - I: ECONOMIC AND HUMANRESOURCES DEVELOPMENT (9 hrs)

Basic Characteristics of Indian Economy - Determinants and Obstacles of Development - Indian Demographic Profile and Features - Causes and Impact of Population Explosion - Theories of Population: Malthusian and Demographic Transition.

UNIT - II: UNEMPLOYMENT AND POVERTY (9 hrs)

Unemployment- Types - Causes - Remedial Measures - Poverty - Meaning and Types - Poverty Line - Causes - Poverty Eradication Programs in India.

UNIT - III: PLANNING AND ECONOMIC DEVELOPMENT (10 hrs)

Meaning - Objectives of Economic Planning in India - Evaluation of Five Year Plans in India- NITI Aayog: Structure - Objectives - New Economic Reforms: Liberalization, Privatization and Globalization.

UNIT - IV: AGRICULTURE DEVELOPMENT IN INDIA (10 hrs)

Role of Agriculture in the National Economy - Production and Productivity - Green Revolution and Organic Farming - Food Security in India - Agricultural Finance - Agriculture Marketing - New Farm Policy.

UNIT - V: INDUSTRY AND SERVICE (10hrs)

The Role of Industrialization - Trends and Growth - Large Scale Industries - MSMEs - Industrial Sickness - Service Sector - Broader Classification - Contribution to Economic Development -Role of Transport - Importance - Problems - Transport Co-ordination.

Text Books

1. Puri V.K and Misra S.K (2014) 'Indian Economy', Himalaya, Mumbai.
2. Ruddar Datt & K.P.M.Sundharam (2016) 'Indian Economy', S. Chand & Company Ltd, Delhi.

References

1. Agarwal. A.N. (1990) 'Indian Economy', Wiley Eastern Ltd, Delhi.
2. Dhingra, I C (2014) 'Indian Economy', Sultan Chand & Sons, Delhi.
3. Government of India 'Economic Survey', Department of Finance, Delhi (various years).
4. Jhingan M.L (2014) 'Economics of Development and Planning', Vikas Publishing House, Bangalore.
5. Joshi, V. and I.M.D. Little (1996) 'India's Economic Reforms: 1991-2001', Oxford University Press, Delhi.
6. Kausik Basu (Ed.) (2012) 'Oxford Companion to Indian Economy', 3rd Edition, OUP, Delhi.
7. Uma Kapila (Ed.) (2017-18) 'Indian Economy Since Independence (Ed.)', Academic Foundation, Delhi.

Outcomes	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	1	2	3	3	2
CO2	2	2	3	3	3
CO3	3	3	2	2	2
CO4	3	3	3	3	3

GROWTH AND DEVELOPMENT

Semester : V
Course Code : 21ECOU0508

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

Objective

- To help the students attain knowledge on mainstream theories of development and growth.

Specific Course Objectives of Learning

- To understand the determinants of Economic Growth and Techniques of Development;
- To enrich knowledge on theories of dualistic development.
- To develop a mental framework on growth and development models.
- To understand theories of balanced growth; and
- To gain skills in examining the International and Domestic Issues.

Specific Course Outcomes

- Explaining the determinants of economic development.
- Analyzing the models of dualistic development.
- Applying the modern growth theories.
- Understanding the issues of Balanced Growth.
- Examining the issues of economic development.

UNIT- I: DETERMINANTS OF ECONOMIC GROWTH (10hrs)

The Capital Output Ratio - Meaning - Factors Determining Capital Output Ratio - Limitations - Resource Allocation - Investment Criteria - Modern Economic Growth - Human Development Index (HDI) - Physical Quality of Life Index (PQLI).

UNIT - II: DUALISTIC DEVELOPMENT (12 hrs)

Theories of Dualism - Sociological - Technological - Financial and International Dualism - Models of Dualistic Development - Arthur Lewis Unlimited Supply of Labour - Nurkes Disguised Unemployment and Vicious Circle of Poverty.

UNIT - III: THEORIES OF GROWTH AND DEVELOPMENT (14 hrs)

The Harrod - Domar Model - Rostow's Stages of Economic Growth - Solow Model.

UNIT - IV: THEORIES OF BALANCED GROWTH (13 hrs)

Balanced Growth Doctrine - Critical Evaluation - Big Push Theory - Critical Minimum Effort Thesis - Strategy of Unbalanced Growth.

UNIT - V: INTERNATIONAL AND DOMESTIC ISSUES (15 hrs)

Regional Cooperation - India's Foreign Trade - Composition and Direction - India's Balance of Payment Problems - Role of FDI - Sectors attracting FDI.

Text Books

- Chakraverti S (1982) 'Alternative Approach to the Theory of Economic Growth', Oxford University Press, Delhi.
- Jhingan M.L (2014) 'Economic of Growth and Development', Himalaya Publishing House, Delhi.

References

- Behrman, S and T.N. Srinivasan (1995) 'Handbook of Development Economics', Vol. 3A, pp: 1- 776, Elsevier, Amsterdam
- Denis Gullet (1971) 'The Cruel Choice: A New Choice in the Theory of Development', New York, Antheneum.
- Hayami, Y. (1997) 'Development Economics, Oxford University Press', New York.
- Sen, A.K. (1990) 'Growth Economics (Ed.)', Penguin, Harmondsworth.
- Solow, R.M. (2000) 'Growth Theory: An Exposition', Oxford University Press, Oxford.
- Taneja M.L. and R.M.Myer (2013), 'Economics of Development and Planning', Vishal Publishing Co., Delhi.

Outcomes	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	2	2	2	3	2
CO2	3	3	2	3	3
CO3	3	3	2	2	3
CO4	2	2	2	3	3
CO5	3	3	2	3	3

ENVIRONMENTAL ECONOMICS

Semester : V
Course Code : 21ECOU0509

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

Objective

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

Specific Course objectives of Learning

1. To gain clarity in the concepts in environmental economics.
2. To understand anatomy of environmental resources and economic development.
3. To identify global environmental problems and their impact on society.
4. To become conversant with the environmental regulations.

Specific Course Outcomes

1. Gaining knowledge of environmental economics.
2. Understanding the nexus between environmental resources and population growth
3. Studying global environmental issues and their impact on society
4. Assessing the environmental pollution using valuation technique of environmental resources
5. Narrating the environmental regulation for creating environmental ethics.

UNIT - I: THEORY AND CONCEPT (9 hrs)

Basics of Environment - Components and Functions - Environment and Development - Ecology and its types - Definition, Nature and Scope of Economics - Basic Theories - Market failure and Externality.

UNIT - II: ENVIRONMENTAL AND ECONOMICS (10 hrs)

Environment - Economy linkage, Consumption, Production and Wastes linkage - Population and Environment linkages - Environmental as Public good - Slums and Urbanizations.

UNIT - III: ENVIRONMENTAL PROBLEMS (9 hrs)

Environmental Problems - air pollution - water pollution - noise pollution - Land pollution - Global Environmental issues and problems - Strategies.

UNIT - IV: POLLUTION CONTROL (10 hrs)

Policy instruments for Environment - Laws, Acts, Rules and Regulations - Sustainable development, Objectives, Approaches.

UNIT - V: POLICY MEASURES (10 hrs)

Environmental Policy - Functions of Ministry of Environment Forests and Climate Change - Function of State and Central Pollution Control Boards.

Text Books

1. Dutt, A., Dutta, S and Pandey (2005) 'Environmental Economics' APH Publishing, Delhi.
2. Karpagam. M (1993) 'Environmental Economics', Sterling Publishers, Delhi.
3. Sankar. U (2000) 'Environment Economics', Oxford University Press, Delhi.
4. Sankaran. S (1994), 'Environmental Economics', Margham, Madras\
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. Rajalakshmi. N and Dhulasi Birundha (1994) 'Economic Analysis of Environment', Allied Publishers, Ahmedabad.
3. Singh G.N (Ed.) (1991) 'Environmental Economics', Mittal Publications, Delhi.
4. Tom Tietenberg (2003) 'Environmental and Natural Resource Economics', Pearson, Education', Delhi.

Outcomes	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	2	2	1	3	3
CO2	2	2	2	3	3
CO3	3	3	2	2	3
CO4	3	3	2	3	3
CO5	2	2	3	3	3

RESEARCH METHODOLOGY

Semester: V
Course Code: 21ECOOU510

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

Objectives

1. To make students gain basic skills of Social Science Research.

Specific Course Objective

1. To understand the basic ingredients of Social Science Research;
2. To know about the Sampling Techniques and Design;
3. To apply qualitative and quantitative techniques to test hypotheses; and
4. To gain skills in conducting research.

Specific Course Outcomes

1. Understanding the need for Social Science Research
2. Gaining skills in the Sampling and Research Design
3. Classifying and validating data in research
4. Corroborating and formulating testable hypotheses; and
5. Acquiring skills / preparing an outline of a Project Report.

UNIT - I: Introduction to Research

(9 hrs)

Meaning - Objectives - Types - Research Approaches - Social Science Research -Objectives, functions, ethics - Research Process - Research problem.

UNIT - II: RESEARCH DESIGN AND COLLECTION OF DATA

(10 hrs)

Meaning - Need - Features -Data meaning and types, sources: Primary Data, SecondaryData - Methods of Data Collection.

UNIT- III: SAMPLING DESIGN

(10 hrs)

Census and Sample Survey - Steps in Sampling Design - Types of Sample Designs - Criteria for Selecting a Sampling Design - Characteristics of a Good Sample Design.

UNIT - IV: TESTING OF HYPOTHESES

(10 hrs)

Meaning and Types - Characteristics and Importance of a Good Hypothesis -Testing of Hypothesis - Procedure for Hypothesis Testing - Tests of Hypotheses.

UNIT - V: INTERPRETATION AND REPORT WRITING

(9 hrs)

Interpretation: Meaning - Need - Technique - Precautions - Report Writing: Meaning - Significance - Steps - Types - Mechanics of Writing Research Report - Model Reporting.

Text Books

1. Kothari, C.R, (2013), 'Research Methodology: Methods and Techniques', Wiley Eastern Limited, Delhi.
2. Thanulingam, N., (2012), 'Research Methodology', Himalaya Publishing House, Mumbai.

References

1. Diwivedi, R.S., (1997), 'Research Methods in Behavioral Sciences', Macmillan, Delhi.
2. Goode, William J. and Hatt, Paul K (1987), 'Methods in Social Research', Mc Graw Hill, London.
3. Kurein, C.T., (1973), 'A Guide to Research in Economics', Sangam Books, Madras.
4. Wilkinson and Pandarkar, (1984), 'Methodology and Techniques of Social Research', Himalaya Publishing House,

Outcomes	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	1	2	2	3	2
CO2	1	3	2	3	2
CO3	2	3	2	3	2
CO4	3	3	2	3	2
CO5	3	3	3	3	2

INDUSTRIAL ECONOMICS

Semester: VI
Course Code: 21ECOU0611

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

Objective

To make the students gain the knowledge of concepts and theories of industrial economics.

Specific Course Objective

1. To study the basic concepts of industrial economics.
2. To learn the methods of assessing industrial efficiency.
3. To understand the theories of industrial location.
4. To know the sources of industrial finance.
5. To learn the industrial policy and to study causes and remedies of industrial sickness.

Specific Course Outcomes

1. Understanding the behavior of industries.
2. Developing the decision making skill for business.
3. Gaining the theoretical knowledge for industry development.
4. Assessing the financial organization for industries.
5. Identifying suitable industrial policy and solving the problems of industrial sickness.

UNIT - I: INTRODUCTION TO INDUSTRIAL ECONOMICS (10 Hrs)

Meaning and History of Industrial Economics - Role of Industries in Economic Development - Factor Determining Industrialization - Types of Organizational Form - Problems of Industrial Development in Developing Country.

UNIT - II: INDUSTRIAL EFFICIENCY (14 Hrs)

Meaning - Determinants - Measurement of Efficiency Levels - Efficiency Conditions in the Theory of Production - Efficiency and Decision Making Process.

UNIT - III: THEORIES OF INDUSTRIAL LOCATION (12 Hrs)

Concept of Optimum Firm - Factors Determining Optimum Size of a Firm - Industrial Location: Determinants - Alfred Weber's Theory - Sargant Florence's Theory.

UNIT - IV: INDUSTRIAL FINANCE (12 Hrs)

Need - Types - Sources - Industrial Financial Institutions - Problems - Nature and Types of Investment Decision.

UNIT - V: INDUSTRIAL POLICY AND INDUSTRIAL SICKNESS (10 Hrs)

Programmes of Industrial Development in India - Industrial Policy prior to 1991 - New Industrial Policy - Impact of Globalization on Industrial Sector in India - Industrial Sickness: Causes - Remedial Measures - Industrial Disputes.

Text Books

1. Barthwal, R. R. (2010), Industrial Economics: An Introductory Text Book, Wiley Eastern Ltd. New Delhi.
2. Cherunilam. F. (1994), Industrial Economics: Indian Perspective, Himalaya Publishing House, Mumbai.
3. Desai. S.S.M. and Bhalerao.N. (2010), Industrial Economy of India, Himalaya Publication House, Mumbai.

References

1. Ahluwalia, I.J. (1985), Industrial Growth in India, Oxford University Press, New Delhi.
2. Desai, B (1989), Industrial Economy in India, Himalaya Publishing House, Mumbai.
3. Kuchhal, S.C.(1978), Industrial Economics, Himalaya Publishing House, Mumbai.
4. Gaurav Datt and Ashwin Mahajan (2016), Indian Economy, S. Chand and Company Pvt. Ltd, New Delhi.
5. Puri V.K. and Misra S.K. (2018) Indian Economy, Himalaya Publishing, Mumbai.

Outcomes	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	2	2	1	3	3
CO2	3	3	3	3	3
CO3	2	2	1	3	3
CO4	3	3	2	3	3
CO5	3	3	3	3	3

AGRICULTURAL ECONOMICS

Semester: VI

Course Code: 21ECOU0612

No. of Credits: 3

No. of Hours: 48

Objective:

1. To equip the students with the basics of agricultural Economics with special reference to Indian context.

Specific Course Objectives of Learning

1. To make the students understand basic concepts of agricultural economics and build knowledge on relationship patterns in the subject.
2. To expose them to the critical inputs in agricultural and the state of application of these inputs in Indian context.

Specific Course Outcomes

1. Explaining the concepts and theories of agricultural economics.
2. Applying the knowledge of agricultural economics to the Indian context.
3. Examining the functional relationship among key variables in agricultural economics.

UNIT I: INTRODUCTION THE AGRICULTURAL ECONOMICS

(8 hrs)

Agricultural Economics -Origin - Meaning - definition - Nature - Scope. Role of Agriculture in Economic Development- Land - Labour- Capital in agriculture.

UNIT II: THEORY OF PRODUCTION

(8 hrs)

Production Function - Production Relationship - Factor product - Factor. factor - product factor relationship - cost relationship and profit maximization.

UNIT III: FARM SIZE AND AGRARIAN RELATION

(12 hrs)

Agricultural holding classification - Farm size and productivity - Mechanization - Advantages and limitations - Land reforms - Measures -Suggestion for improvement - New agricultural strategy.

UNIT IV: AGRICULTURAL MARKETING

(12 hrs)

Agricultural Marketing- classification of Agricultural Markets - Defects of agricultural marketing - Efficient marketing system - Marketable surplus - Agricultural prices - Regulated Markets - Co-operative Marketing - Procurement and Public Distribution.

UNIT V: AGRICULTURAL FINANCE AND AGENCIES

(8 hrs)

Capital formation in Agriculture - Sources of Agricultural Finance- Rural Indebtedness - Causes- Debt relief activities - Role of Rural Credit Institutions.

Text Books

1. Sadhu, Singh and Singh (2014) **Fundamentals of Agricultural Economics**, HimalayaPublication, Delhi.
2. Cramer and Jevsen (1994) **Agricultural Economics and Agri Business**, John Wiley, New York.
3. Sankaran,S (2010) **Agriculture Economics**, Margham, Chennai.
4. Sethuraman, K. (2000), **Agricultural Marketing**, Margham Publications, Chennai.

References

1. Sankaran, S.(2010), **Indian Economy**, Margham Publications, Chennai.
2. Deepashree, (2011), **Indian Economy**, Ane Books Pvt Ltd, Delhi.
3. Cohen (2001) **The Economics of Agriculture Mohit**, Delhi.
4. Memoria, C.B., & Badri Bishal Tripathi (2003), **Agricultural Problems of India**, Kitab Mahal Agencies, Patna.

Outcomes	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	2	2	1	3	3
CO2	3	3	2	3	3
CO3	3	3	2	3	3

MONEY, BANKING AND PUBLIC FINANCE

Semester : VI
Course Code : 21ECOU0613

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

Objectives:

1. To enable the students understand the concepts of Monetary System and working of public finance.

Specific Course Objectives of Learning

1. To learn the concepts of money, banking and public finance
2. To understand the functions of banking of system.
3. To understand the importance and working of public finance in an economy.

Specific Course Outcomes

1. The students would be able to explain the concepts of money, banking and public finance.
2. They would recognize the working of banking system.
3. The students would be able to distinguish the intervention of government and private.

UNIT - I: VALUE OF MONEY AND INFLATION (14 hrs)

Money-concept and Importance, quantity theory of money, cash transaction and cash balance approaches; The Keynesian approach. Determinants of money supply - High powered money and money multiplier. Inflation, deflation and reflation: definition, types, causes and effects of inflation on different sectors of the economy; Demand pull and cost-push inflation; Measures to control inflation, Philips curve.

UNIT - II: COMMERCIAL BANKING (12 hrs)

Meaning, types and Functions of commercial banks. The process of Credit Creation. Evolution of commercial banking in India after independence. Recent reforms in banking sector.

UNIT - III: CENTRAL BANKING (12 hrs)

Functions of a central bank; quantitative and qualitative methods of credit Control- Bank rate policy, Open market operations, Variable reserve ratio and Selective methods, Role and functions of the Reserve Bank of India. Objectives and limitations of monetary policy with special reference to India.

UNIT - IV: NATURE AND SCOPE OF PUBLIC FINANCE AND TAXATION (14 hrs)

Meaning and scope of public finance; Distinction between private and public finance; Public goods; the principle of maximum social advantage; Sources of public revenue; Taxation, canons and classification of taxes; Impact and incidence and shifting of taxes; Taxable capacity; Effects of taxation; Characteristics of a good tax system.

UNIT - V: PUBLIC EXPENDITURE AND PUBLIC DEBT (12 hrs)

Public Expenditure- Meaning, classification and principle of public expenditure; Canons and effects of public expenditure. **Public Debt-** Sources of public borrowing; Effects of public debt. Various concepts of budget deficits.

Text Book

1. M. L. Seth (2019) 'Money, Banking, International Trade and Public Finance', 34th Edn., Lakshmi Narain Agarwal, Agra.
2. D.M. Mithani (2018) 'Money, Banking, International Trade and Public Finance', 20th Edn., Himalaya Publishing House, Mumbai.

References

1. Ackley, G. (1978), Macroeconomics: Theory and Policy, Macmillan Publishing Co., New York.
2. Gupta, S.B. (1994), Monetary Economics, S. Chand & Co., New Delhi.
3. Musgrave, R.A. and P.B. Musgrave (1976), Public Finance in Theory and Practice, McGraw Hill, Kogakusha, Tokyo.
4. Shapiro, E. (1996), Macroeconomic Analysis, Galgotia Publications, New Delhi.
5. Musgrave, R.A. and P.B. Musgrave (1976), Public Finance in Theory and Practice, McGraw Hill, Kogakusha, Tokyo.

Outcomes	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	1	1	1	3	3
CO2	2	2	1	3	3
CO3	3	2	1	3	3

COMPUTER APPLICATION IN ECONOMICS

Semester : VI
Course Code : 21ECOU0614

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

Objectives

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

Specific Course Objectives of Learning

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

Specific Course Outcomes

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

UNIT- I: INTRODUCTION (10 hrs)

Computer Application, nature and scope - objectives, importance Computer Application in Economics, MS-Word opening, saving and printing document files, Editing and formatting of documents, Table creation- short cut keys, mail merge.

UNIT - II: CREATION OF TABLES, GRAPHS AND DIAGRAMS in MS OFFICE (10 hrs)

Meaning - Preparing tables MS Word, MS Power Point, Preparation of Power point using design template and text structure layouts - animation effects, table, pictures and presentation- Creating and Modifying graphs and diagrams.

UNIT - III: DATA SET (12 hrs)

Data - meaning, types, Primary, Secondary-Time Series data, Cross section, Pooled data and illustrations of data sources- ASI, Census Reports, World Bank, RBI, NSSO- Transfer of data among different softwares.

UNIT - IV: FORMATTING OF DATA (8 hrs)

Microsoft Excel: functions of Excel, Creation of worksheets; Data entry - Entering data and processing using Excel - Mathematical and statistical calculations - Applications of Excel in economics - computing mean, median, mode, standard deviation and Coefficient of Variance.

UNIT - V: ANALYSIS OF DATA WITH SPSS (8 hrs)

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

Text Books

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

References

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

Outcomes	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	1	1	1	1	1
CO2	3	2	3	1	1
CO3	2	3	2	3	3
CO4	3	3	3	3	3
CO5	3	3	3	3	3

INFRASTRUCTURE PLANNING

Semester: V
Course Code: 21ECOU05M1

No. of Credit: 2
No. of Hours: 32

Objectives:

To make the students to comprehend the issues and different sectors in infrastructure planning of India.

Specific Course Objective

1. The students would have understood concepts and components of infrastructure.
2. To examine the infrastructure planning in rural and urban area.
3. To realize the sectors of infrastructure planning.
4. To know about the challenges and successful implementation of infrastructure planning.
5. To gain the knowledge on strategies for infrastructure planning and management.

Specific Course Outcomes

1. Rendering knowledge about the concepts and issues of infrastructure.
2. Integrating the framework for infrastructure planning.
3. Realizing the issues of different infrastructure sectors of India.
4. Recognizing the various risk in infrastructure planning.
5. Gaining knowledge on risk management and sustainable development.

Unit I Introduction

(6 hrs)

Concepts, scope and importance – Components – Role of infrastructure and economic development – Infrastructure scenario in India - Infrastructure crisis.

Unit II Infrastructure Planning

(6 hrs)

Meaning – Needs – Urban and rural infrastructure planning – Public and Private Partnership (PPP) - Special Economic Zones.

Unit III Planning in Sectors

(7 hrs)

Road and Transport – Energy – Education and Health - Water – Information and Communication Technology – Privatization of Power and Transportation sectors – Benefits, Challenges and Problems.

Unit IV Challenges to Successful Infrastructure Planning

(6 hrs)

Mapping and Facing the landscape of risks – Political, Socio-Environmental and Cultural Risks – Legal and Contractual Issues – Challenges in Construction and Maintenance of Infrastructure Planning.

Unit V Management Strategies

(7 hrs)

Risk Management Framework – Infrastructure management – Sustainable development – Infrastructure planning systems and future direction.

Text Books

1. McMohan, W (1999), Education and Development: Measuring the Social Benefits, Oxford University Press, Oxford.
2. Misra and Puri (2013), Indian Economy, Himalaya Publishing, Mumbai.

Reference Books

1. Parikh R K (2010), India Development Report, Oxford University Press,
2. World Development Report 1994: Infrastructure for Development (1994).

Outcomes	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	2	3	2	2	2
CO2	2	3	2	3	2
CO3	2	3	2	3	3
CO4	2	3	2	3	3
CO5	3	3	2	3	3

INCLUSIVE PLANNING

Semester: V
Course Code: 21ECO05M1

No. of Credit: 2
No. of Hours: 32

Objective

1. To understand the importance of inclusive development and its principles in the field of Rural and urban planning.

Specific Course Objectives of learning

1. The course aims at understanding participatory planning process, policies and programmes.
2. To learn inclusive concepts adopted and implemented in India and the world.

Specific Course Outcome

After completion of the course the students should be able:

1. To study the various Forms, Arenas and Uses of Inclusion in the Processes of Urban and Regional Planning
2. Ability to incorporate the concepts at different stages during the planning process.
3. To study Significance of Inclusive in Planning and Development Process
4. To study Policies, Programmes and Legislation for Participatory Planning.

UNIT - I: UNDERSTANDING INCLUSIVE PLANNING (6hrs)

Definitions and components,

UNIT - II: FORMAL AND INFORMAL SECTORS WITH LIVELIHOODS (7hrs)

Stakeholders Profile and Needs, Access to Shelter, Services and Livelihoods- Rural and Urban Poor, Informal Sector, Gender, Children, Elderly, Disabled, Displaced people - Slums - dimensions, causative factors, determinants, location characteristics of settlements; Informal sector - growth, characteristics, functions, economic contributions, linkages with formal sector, impact on Rural and Urban Development

UNIT - III: SOCIAL PLANNING AND POLICY (7hrs)

community participation; Marginalization and concepts of inclusive planning, Gender concerns. Settlement Policy: National Commission on Urbanisation, Rural Habitat Policy - Experiences in developing countries regarding Settlement structure, growth and its spatial distribution.

UNIT - IV: PARTICIPATORY PLANNING PROCESS AND POLICIES, PROGRAMMES AND LEGISLATION. (6hrs)

Methods, role of stakeholders: including civil society organizations - Related Acts, Five year plans, policies and programmes at various levels.

UNIT - V: PLANNING INTERVENTIONS (6hrs)

Inclusive zoning, development and building regulations, Slum Improvement

References:

1. Datta, A (2012) "The Illegal City: Space, Law and Gender in a Delhi Squatter Settlement", Ashgate, Burlington.
2. Roy, A. and Ong, A. (2011) "Worlding Cities: Asian Experiments and the Art of Being Global", Wiley Blackwell, London.
3. Eijk, G.V. (2010) "Unequal Networks: Spatial Segregation, Relationships and Inequality in the City", IOS Press, Amsterdam.
4. Harriss, J. (2007) "Antinomies of Empowerment: Observations on Civil Society, Politics and Urban Governance in India", Economic and Political Weekly, Vol.42, No.26, pp.2716-2724.

Outcomes	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	2	2	2	3
CO2	2	3	3	3	3
CO3	3	3	3	3	2
CO4	3	2	3	2	3

MODULAR COURSE LABOUR ECONOMICS

Semester: V
Course Code: 21ECOU05M3

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

Objective

To make the students gain the knowledge of concepts and theories in labour economics.

Specific Course Objective

1. To expose the basic concepts in labour economics.
2. To learn the wages and employment.
3. To understand the industrial disputes.
4. To know the trade union.
5. To learn the social security measures.

Specific Course Outcomes

1. Understanding the behavior of labour.
2. Gaining the knowledge of wages and employment.
3. Assessing the awareness of industrial disputes.
4. Examining the trade union activities.
5. Identifying suitable social security measures for labour.

UNIT - I: INTRODUCTION

(6 Hrs)

Meaning - Nature - Importance - Characteristics of Labour - Forms of Labour.

UNIT- II: WAGES AND EMPLOYMENT

(7 Hrs)

Meaning - Types - Structure and Differentials - Full Employment - Unemployment: Meaning - Types - Causes - Migration.

Unit - III: INDUSTRIAL DISPUTES

(7 Hrs)

Causes for Industrial Disputes - Effects - Preventions of Industrial Disputes - Settlement mechanism.

UNIT- IV: TRADE UNION

(6 Hrs)

Objectives - Functions - Features - Role of Trade Unions in the context of Globalization.

UNIT - V: SOCIAL SECURITY MEASURES

(6 Hrs)

Social Security Measures in India - Minimum Wage Act - Employees Provident Fund - International Labour Organization: Objectives - Function - Achievements.

Text Books:

1. Srinivasan. N (2016) Labour Economics, 1st Edition, Meenakshi Publishers.
2. Saxena .R.C,(1986) Labour Problems and Social Welfare, K. Nath and Co, Meerut.
3. Gaurav Datt and Ashwani Mahajan C (2016), Datt and Sundaram's 'Indian Economy', S. Chand and Company Pvt. Ltd., Delhi.
4. Mishra and Puri, (2005) 'Indian Economy', Himalaya Publishing House, Delhi.

References

1. Ramaswamy, E.A., & Ramaswamy Uma. 1985, Industry and Labour, An Introduction, Oxford & IBH, New Delhi.
2. Butler, A.D. (1972): Labor Economics and Institutions, American Publishing Company, New Delhi.
3. George, J.B. (1996): Labour Economics, McGraw Hill,, NY.
4. Marshall, F.R., V.M. Briggs, and A.G. King (1984): Labour Economics, Richard D. Irwin Inc. Homewood, Illinois.
5. McConnell, C.R., S.L. Brue and D.A. Macpherson (2009): Contemporary Labour Economics, McGraw Hill, NY.
6. Ronald G. Ehrenberg and Robert Smith (2005) Modern Labour Economics, 5th Edition.: McGraw-HillNew York.

Outcomes	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	2	2	2	3
CO2	3	3	2	3	2
CO3	2	2	3	2	2
CO4	2	2	3	3	3
CO5	2	3	2	3	3

MODULAR COURSE
TOURISM ECONOMICS

Semester : VI
Course Code : 21ECOOU6M1
Objective

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

To make the students understand the basic concepts and principles of tourism economics.

Specific Course Objective of Learning

1. To understand the concepts of tourism economics.
2. To know about the tourism demand and supply.
3. To learn the tourism product.
4. To study the Structure of the tourism market.
5. To gain the knowledge of tourism policy.

Specific Course Outcomes

1. Evaluating the concepts of tourism economics.
2. Examining the tourism demand and supply.
3. Knowing the generation of tourism product.
4. Explaining economics behavior of firm involved in tourism
5. Identifying the suitable tourism policy for economic growth.

Unit- I: INTRODUCTION (6 Hrs)

Meaning - Concepts of Economics and Their Relevance to Tourism - Role - Challenges - Impact of Tourism Sector in Indian Economy.

Unit-II: TOURISM DEMAND AND SUPPLY (7 Hrs)

Tourism Demand: Concepts - Determinants - Measurement - Elasticity of Tourism Demand. Tourism Supply: Concepts - Determinants - Measurement - Elasticity of Tourism Supply.

UNIT - III: TOURISM PRODUCT (6 Hrs)

Tourism Enterprises - Tourism Products - Cost of Tourism Products - Sources of Finance in Tourism.

Unit - IV: TOURISM MARKET (7 Hrs)

Meaning - Characteristics - Importance - Nature of competition - Pricing of Tourism Products - Marketing Strategy in Tourism Industry - Global Trends and Their Impact on Movements in the Tourism Market.

Unit - V: TOURISM POLICY (6 Hrs)

Indian Tourism Development Corporation - Popular tourist places in India - Promotion of Tourism in India - Sustainable Development of Tourism.

Text Books

1. Rajasekara Thangaman (2003) - Tourism Development, Madras art printers, Chennai.
2. Sinclair, M.T., and Stabler, M., (1997) *The Economics of Tourism*, London, Routledge.
3. Lundberg, Donald E. M. Krishnamoorthy and Mink H. Stavenga (1995) 'Tourism Economics,' John Wiley & Sons, New York .

References

1. Bhatia A.K. (2001) - International Tourism Management, Sterling Publishers Pvt, Ltd., New Delhi.
2. Viswanath Ghosh (2000) - Tourism and Travel Management, Vikas Publishing House, Pvt., Ltd., New Delhi.
3. Johan M. Bryder (1973) - Tourism and Development, Cambridge University Press, London.
4. Michael Peters (1969) - International Tourism, Hutchinson, London.
5. Sinclair M.Thea and Mike Stabler (1997) *The Economics of Tourism*, Rutledge, London.

Outcomes	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	2	3	2	2	3
CO2	3	3	3	3	2
CO3	2	2	3	3	3
CO4	3	2	3	3	3
CO5	2	3	3	3	3

**MODULAR COURSES - 21ECOU06MX
SUSTAINABLE AGRICULTURAL DEVELOPMENT**

Semester : VI
Course Code : 21ECOU06M2

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

Objective

- To obtain knowledge in sustainable agricultural development.

Specific Course Objectives of Learning

- To provide the students a detailed treatment on sustainable agricultural development.
- To expose the students on the sustainable of modern agriculture
- To learn about Sustainable food production.

Specific Course Outcomes

Students would have a clear and apparatus.

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

UNIT - I: SUSTAINABLE AGRICULTURE: (6hrs)
Definition, Principles, Goals, Problems and its importance in Agriculture, Sustainable Agriculture Development and Technologies

UNIT - II: ENVIRONMENTAL ISSUES IN MODERN AGRICULTURE (7hrs)
Technical Innovations - Alternatives to conventional agriculture- sustainable and unsustainable - Social and Environmental implementations in Agriculture- Technologies and Policy fatigues

UNIT - III: SUSTAINABLE AGRICULTURE (6hrs)
Sustainable agriculture and sustainable food systems - Food Security- Soil health- - Pest & disease management- Weed management- Crop Production

UNIT - IV: SUSTAINABLE MANAGEMENT (6hrs)
Water Conservation and Management - Soil Conservation and Management- Energy and Agriculture - "Alternative" agriculture approaches - Issues in sustainable agriculture-

UNIT - V: FARMING SYSTEMS AND ENVIRONMENT (7hrs)
Farming systems and environment, its resource cycling and flow of energy- Impact of LEIA (Low External Input and Sustainable Agriculture) and HEIA (High External Input Agriculture) crop productivity and sustainable agriculture - Fluctuations in Agricultural Price - Agricultural Price Policy - Agricultural Subsidies.

Text Books

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

References

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

Outcomes	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	2	3	3	2
CO2	2	2	3	3	2
CO3	2	2	2	3	3

MODULAR COURSE
WOMEN ENTREPRENEURIAL DEVELOPMENT

Semester : VI

No. of Credits:2

Course Code :21ECOU06M3

No. of Hours:32

Objective

- To impart the concepts of women entrepreneurship and development programmes.

Specific Course Objectives of Learning

- To understand the role of women entrepreneurship in different facets of society.
- To elucidate the role of various developmental schemes supporting women entrepreneurship.
- To know the various livelihood supports for women employment opportunities.
- To understand the role of entrepreneurship in economic development.
- To familiarize with the opportunities available to become an entrepreneur.

Specific Course Outcomes

- To acquire the knowledge regarding characteristics of an entrepreneur.
- To develop an interest in entrepreneurial activity.
- To equip them with entrepreneurial skills for self-employment.
- To assess the training and financial facilities available for entrepreneurs.
- To understand the business correspondence and communication.

UNIT -I: INTRODUCTION TO WOMEN ENTREPRENEURSHIP

(6 hrs)

Meaning- Significance - Factors contributing to women Entrepreneurship –Challenges - Growth of women Entrepreneurship - Women entrepreneurs in India.

UNIT -II ECONOMIC EMPOWERMENT

(6 hrs)

Organized sector, unorganized sector; Role of Women in Economic Development - Female Poverty and Poverty alleviation programmes; Status of Women farmers and land rights; Impact of Globalization on working women; National Policy for the empowerment of women 2001. Relationship between Entrepreneurship and empowerment - Achievements of Woman Entrepreneurs.

UNIT - III: WOMEN EMPLOYMENT OPPORTUNITIES

(6 hrs)

Livelihood support for women Employment opportunities: Income Generating Programme – IRDP - Rural Credit and women Self-help Groups - Skill Development and Technology Transfer - Impact on Women’s Development Programs and policy measures at International, National and State Levels.

UNIT - IV: STRATEGIES OF WOMEN ENTREPRENEURSHIP DEVELOPMENT

(7 hrs)

EDP –Objectives - Evolution of women entrepreneur development programme - Special Women and EDPs - Micro Enterprises - Non-Stereotyping Women - Schemes supporting Women Entrepreneurs: SIDO, DIC, EDI, NIESBUD, SEWA, ALEAP.

UNIT - V: PROJECT FINANCE

(7 hrs)

Sources of finance – Institutional finance - Role of IFC, IDBI, ICICI, LIC, SFC, SIPCOT, and Commercial Bank - Appraisal of bank for loans. Institutional aids for entrepreneurship development - Role of DST, DICS, SIDCO, NSICS, IRCI, NIDC, SIDBI, SISI, SIPCOT, Entrepreneurial guidance bureau.

Text Books

- Hisrich, Robert D (2012), Michael Peters and Dean Shepherded Entrepreneurship, Tata McGraw Hill, United States.
- Peter F. Drucker (2006), Innovation and Entrepreneurship, Reprint, Heinemann, United States.

Reference Books

- Vasant Desai (2011), “Dynamics of Entrepreneurial Development and Management” Himalaya Publishing House, New Delhi.
- Srinivasan & Gupta (2008), “Entrepreneurial Development” Sultanchand & Sons, New Delhi.
- Saravanavelu (1997), “Entrepreneurship Development” Ess pee kay publications, Chennai.

Outcomes	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	2	2	2	3	2
CO2	3	3	3	3	3
CO3	2	2	3	2	3
CO4	3	3	3	2	3
CO5	2	3	3	3	3

**VALUE ADDED COURSE - 21ECOU0VAX
MICRO FINANCE**

Semester : III
Course Code : 21ECOU0VA2

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

Objective

1. This course introduces microfinance as a tool for social and rural development.
2. To students will be able to, recognize various credit lending models, identify role of microfinance institutions and assess the risk associated with microfinance.
3. Able to understand the manner in which microfinance can empower the poor

Specific Course Objectives of learning

1. To understand the Students with the micro financial environment in the financial market.
2. To gain clarity in the analytical skills by associating the tools and techniques with the situation.
3. To receive exposure to various financial market institutions.
4. To develop Students for the interfaces among government policies, capital market, investors and firms.
5. To understand the various aspects of microfinance regulation and policies

Specific Course Outcomes

1. Evaluating the theories of financial market.
2. Analyzing the microfinance models.
3. Understanding the working of microfinance institutions in India.
4. Recognizing and analyzing issues in microfinance market and policy
5. To learn various concepts of microfinance regulation along with applications

UNIT - I: MICRO FINANCE AND ITS NATURE

(6hrs)

Definitions - Characteristics - Micro Finance Institutions - Lessons from international exposure- role of micro finance in an economy

UNIT - II: MODELS OF MICROFINANCE

(7hrs)

Models of Microfinance across the world - Microfinance delivery methodologies - Legal and Regulatory framework - SHGs- Cooperative Society- Financial Institutions and Non Banking Financial Institutions.

UNIT - III: RISK MANAGEMENT

(6hrs)

Microfinance Operational Aspects Financial products and services, financial accounting and reporting - Revenue model of Microfinance - Basics of banking - Compliance to various regulations

UNIT - IV: MICROFINANCE AND DISASTER

(6hrs)

Recent developments of Microfinance in India - Microfinance and Disaster -SHGs - Linkage Building and Successful Micro Entrepreneurs

UNIT - V: MARKET REGULATIONS AND REGULATORY AGENCIES

(7hrs)

Financial Market - Primary and Secondary Market- Stock Market and Bond Market - Capital Market and Money Market

Text Books

1. Prasanna Chandra (2009) Financial Management, Mc Graw Hil, Noida
2. Wrightsman, Dwayne (1971) 'An Introduction to Monetary Theory and Policy', The Free Press, New York.
3. Pandey I M (2009) Financial management, Vikas Publishers, Delhi

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. Jadhav Narendra (1993) 'Monetary Economics for India', Macmillan, Madras.
4. Reddy, Y.V. (2000) 'A Review of Monetary and Financial Sector Reforms in India - A Central Banks Perspective', UBSPD, Delhi.
5. Reddy, Y. V (2000) 'Monetary and Financial Sector Reforms in India', UBS PD, Chennai

Outcomes	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	2	2	2	2	2
CO2	3	2	3	2	2
CO3	2	2	3	2	3
CO4	2	3	3	3	3
CO5	2	3	2	2	3

**VALUE ADDED COURSE
DEVELOPMENT ORGANIZATIONS**

Semester: V
Course Code: 21ECOU0VA3
Objective

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

To make the students gain knowledge on concepts and theories of development organizations.

Specific Course Objective

1. To expose the basic concepts of development organizations.
2. To learn the organization and development.
3. To understand the theories of organizations.
4. To know the functions of development organizations.
5. To learn the policies for development organizations.

Specific Course Outcomes

1. Understanding the development organizations.
2. Gaining the knowledge of organization and development.
3. Assessing the theories of organizations.
4. Examining the functions of development organizations.
5. Identifying policy for development organization.

UNIT - I: INTRODUCTION

(6 Hrs)

Meaning -Scope - Importance of Organization - Classification of Organizations - Formal and Informal - Organizational Behaviour.

UNIT II: ORGANIZATION AND DEVELOPMENT

(7 Hrs)

Role of the State - Development Organizations - Community Response - Facilitation Role - Implementation Role - Cooperatives - NGOs - Non-Profit and No Profit Organizations - Gossroots Development - Advocacy.

UNIT-III: THEORIES OF ORGANIZATIONS

(7 Hrs)

Nature of Organizational Theory - Classical Theories - Features of Bureaucracy - Administrative Theory and Scientific Management - Neo-classical Theories - Human Relations Movement - Modern Theory.

UNIT- IV: FUNCTIONS OF DEVELOPMENT ORGANIZATIONS(6 Hrs)

Facilitation - Advocacy - Support - Technology - Resource - Awareness - Solidarity - Problems and Issues.

UNIT- V: DEVELOPMENT ORGANIZATIONS IN INDIA

(6 Hrs)

Growth - Causes and Consequences - Conflicts - Cooperation - Engagement.

Text Books:

1. Fred Luthans (2010) Organisational Behaviour, 11th Edition, Tata McGraw Hill, New Delhi.
2. Dwivedi R.S. (2008) Human Relations and Organisational Behaviour, 5th Edition, Macmillan India Limited, New Delhi.
3. Mcshane and Van Glino(2014) Organizational Behaviour, 5th Edition, Tata McGraw Hill, New Delhi.

Reference:

1. Robbins, Stephen P (1990) Organisational Behaviour: Concepts Controversies and Applications, Prentice Hall, New Delhi.
2. Gro Ancona, Kochaw, Scully, Van Maanen, Westney (1999) Organizational Behaviour and Pocesesses. South Western College Publ., New York.
3. R.S.Dwivdi, (1995)Human Relations and Organizational Behaviour, 2nd edition, Englewood Cliffs, Prentice Hall.
4. Staw,Psychological B.M.(1995) Dimensions of Organizational Behaviour, 2nd edition, Engle wood Cliffs, Prentice Hall.
5. Stephen P.Robbins (2002) Organizational Behaviour, 9th Edition Personal education, New Delhi.

Outcomes	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	2	3	3	2
CO2	3	2	3	3	3
CO3	3	3	2	2	3
CO4	2	3	2	3	3
CO5	2	3	3	3	2

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

ENERGY ECONOMICS

Semester : V
Course Code : 21REEVO537

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

Objective

- To help the students to understand the basics of energy economics.

Specific Course Objectives of learning

- To understand the dynamics of natural resources and energy.
- To study relationship between energy and development.
- To examine nexus between energy and environment.
- To gain skills energy planning and management
- To comprehend the energy profile of India.

Specific Course Outcomes

- Understanding the concept of energy economics.
- Learning the nexus between energy consumption and economic development.
- Comparing and contrast between energy and environment
- Realizing the significance of energy conservation and management.
- Gainingskills to compile the profile of various energy sources in India.

UNIT - I: INTRODUCTION TO ENERGY ECONOMICS

(9 hrs)

Energy Resources - Classification - Properties and Forms of Energy - Energy Economics - Origin, Nature and Scope.

UNIT - II: ENERGY AND DEVELOPMENT

(10 hrs)

Energy and Economic Development - Energy Indicators - Energy Intensity and Energy Elasticity - National and International Comparison - Percapita Energy and per capita Income.

UNIT - III: ENERGY AND ENVIRONMENT

(9 hrs)

Energy Nexus Environment Crisis - Causes and Consequences - Remedial Measures - Impact of Energy Consumption and production on Environment.

UNIT - IV: ENERGY MANAGEMENT

(10 hrs)

Energy management - Objectives and Importance - Energy Conservation - Issues and Challenges.

UNIT - V: INDIAN ENERGY SECTOR

(10 hrs)

Indian Energy Sector - Organizational Structure - Energy Supply and Demand in India - Renewable energy Programmes in India.

Text Books

- Agarwal, S.K. (1985) 'Environment and Natural Resources Economics', Scott Foresman & Co., London.
- Common, M. (1985) 'Environment and Resource Economics', London.
- R. Perman, Y. Ma, J. Mc Gilvray, M. Common (2003) 'Natural Resource and Environmental Economics' Pearson, 3rd edition.

References

- Agarwal, M.C. and Monga, J.R. (1992) 'Economic and Commercial Geography', National Publishing House, Delhi
- Anandan, M. and Ramaswamy, S., (2016) 'Oil Economics' MJP Publishers, Delhi.
- Kneese. A.V and Sweeny, J.L, eds, (1993) 'Handbook of Natural Resource and Energy Economics', North Holland, Amsterdam, pp.61-124.
- Munasinghe, M. and Meier, P (1993) 'Energy Policy and Modelling', Cambridge University Press, UK
- Ramaswamy. S. and Anandan, M., (2019) 'Energy Development Issues and Policies' MJP Publishers, Delhi.
- Richard Eden (1981) 'Energy Economics - Growth, Resources and Policies', Cambridge University Press, London.
- TERI (2019) 'Teri Energy Data Directory and Year Book 2018 - 19', The Energy Research Institute, Delhi.

Outcomes	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	1	2	1	3	3
CO2	1	2	1	3	2
CO3	3	2	2	2	2
CO4	2	2	2	3	3
CO5	2	2	3	3	3

BUSINESS ECONOMICS

Semester: I

Course Code: 21ECO01A1

No. of Credits: 4

No. of Hours: 64

Objectives:

1. To enable the students to understand the basic concepts of economics and its application in day-to-day-life.

Specific Course Objective

1. To learn the definition and principles of Economics.
2. To examine the theory of demand and supply.
3. To establish the functional relationship in production and cost theories.
4. To get exposed to the various market structure.
5. To analyze the various methods of national income and Macroeconomic Policy.

Specific Course Outcomes

1. Assimilating the fundamental concepts of economics.
2. Gaining knowledge on supply and demand to determine changes in market equilibrium.
3. Analyzing the production cost and return to scale.
4. Understanding the price determination of factors on various market structure.
5. Highlighting the concepts of national income and macroeconomic policy.

UNIT I: INTRODUCTION TO ECONOMICS

(10 hrs)

Definitions and scope of Economics: Wealth, Welfare, Scarcity and Growth - Methods of Economic Analysis - Approaches to Economic Analysis: Micro and Macro Economics - Basic Concepts of Economics.

UNIT II: DEMAND AND SUPPLY

(12 hrs.)

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

UNIT III: PRODUCTION

(14 hrs.)

Cost and Revenue Curves - Break-Even Analysis - Production Function - Types - Law of Variable Proportions - Laws of Return to Scale.

UNIT IV: MARKET STRUCTURES

(14 hrs.)

Market - Meaning - Characteristics - Market Structure and Price Determination: Perfect Competition - Monopoly - Monopolistic and Oligopoly.

UNIT V: NATIONAL INCOME AND MACRO ECONOMIC POLICY

(14 hrs.)

Definition, Concept, Methods of Measuring National Income - Business Cycle - Inflation: Meaning, Types, Causes, Measures - Deflation - Monetary Policy - Fiscal Policy.

Text Books

1. Ruddar Datt & K.P.M.Sundharam-Indian Economy - S.Chand &Company Ltd, New Delhi, 2016.
2. Puri V.K and Misra S.K: Indian Economy, Himalaya, Mumbai, 2014.
3. Gregory Mankiw (2016) 'Principles of Microeconomics, CBS Publishers, Delhi.

Reference Books:

1. Uma Kapila (Ed.) (2017-18), Indian Economy Since Independence, Academic Foundation, New Delhi, 28th Edition.
2. Jhingan (2014), Economics of Development and Planning - Vikas Publishing House, Bangalore,
3. Kausik Basu (Ed.) (2012), Oxford Companion to Indian Economy, 3rd Edition, OUP, New Delhi.
4. Dhingra, I C., (2014), Indian Economy, Sultan Chand & Sons, New Delhi.
5. Agarwal.A.N. (2012), Indian Economy, Wiley Eastern Ltd, New Delhi.
6. Government of India, Economic Survey, (various years).

INDIAN ECONOMY

Semester: II
Course Code: 21ECOU02A2

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

Objectives:

1. To facilitate the students to understand different sectors, development and planning of Indian Economy.

Specific Course Objective

1. To understand the nature and scope of Indian Economic Development.
2. To know about planning and development in India.
3. To understand the role of agriculture sector in Economic Development.
4. To highlight the importance of industrial and service sectors development in India.
5. To learn the importance of foreign trade and economic policy.

Specific Course Outcomes

1. Becoming clear in the basic concepts of growth and development.
2. Realizing the importance of effective planning and gaining skills to evaluate planning.
3. Examining the contribution of different sectors of economy.
4. Analyzing the relationship between the importance of foreign trade and economic policy in India.

Unit I: Nature and Scope of Indian Economy (12 hrs.)

Underdevelopment - Meaning - Characteristic of Indian Economy - Economic Development and Growth - Determinants and Obstacles of Economic Development - India as a mixed Economy - Sustainable Development.

Unit II: Planning and Development (12 hrs.)

Definition of Planning - Objectives - Planning Commission - Five Year Plans of India - Achievements and Failures of Economic Planning in India - NITI Aayog - Structure - Objectives and Role.

Unit III: Agriculture and Economic (14 hrs.)

Role of Agriculture in Indian Economy - Production and Productivity - Green Revolution and Organic Farming - Problems of Indian Agriculture - Agriculture Finance.

Unit IV: Industrial and Service Sectors (12 hrs.)

Industrialization- Meaning - Problems - Role of Industrialization - Industrial Finance - Industrial Policy - Industrial Sickness - Trade Union - Service Sector - Broader Classification - Contribution to Economic Development.

Unit V: Foreign Trade and Economic Policy (14 hrs.)

International Trade and Development - Foreign Direct Investment (FDI) - New Economic Policy (LPG) - World Trade Organization (WTO) - Special Economic Zones (SEZs) - Demonetization - Goods and Services Taxes.

Text Books

1. Ruddar Datt & K.P.M.Sundharam-Indian Economy - S.Chand &Company Ltd, New Delhi, 2016.
2. Puri V.K and Misra S.K: Indian Economy, Himalaya, Mumbai, 2014.

Reference Books:

1. Uma Kapila (Ed.) (2017-18), Indian Economy since Independence, Academic Foundation, New Delhi, 28th Edition.
2. Jhingan (2014), Economics of Development and Planning - Vikas Publishing House, Bangalore,
3. Kausik Basu (Ed.) (2012), Oxford Companion to Indian Economy, 3rd Edition, OUP, New Delhi.
4. Dhingra, I C., (2014), Indian Economy, Sultan Chand & Sons, New Delhi.
5. Joshi, V. and I.M.D. Little (1996), "India's Economic Reforms: 1991-2001", Oxford University Press, New Delhi.
6. Agarwal.A.N. (1990), Indian Economy, Wiley Eastern Ltd, New Delhi.
7. Government of India, Economic Survey, (various years).

Elective - Generic Courses - 21ECOU0XGX
PRINCIPLES OF ECONOMICS

Semester: IV/V
Course Code: 21ECOU0XG1

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

Objectives:

1. To enable the students to understand the basic concepts of economics and its application in day-to-day-life.

Specific Course Objective

1. To learn the definition and principles of Economics.
2. To examine the theory of demand and supply.
3. To establish the functional relationship in production and cost theories.
4. To get exposed to the various market structure.
5. To analyze the various methods of national income and Macroeconomic Policy.

Specific Course Outcomes

1. Assimilating the fundamental concepts of economics.
2. Gaining knowledge on supply and demand to determine changes in market equilibrium.
3. Analyzing the production cost and return to scale.
4. Understanding the price determination of factors on various market structure.
5. Highlighting the concepts of national income and macroeconomic policy.

UNIT I: INTRODUCTION TO ECONOMICS

(10 hrs)

Definitions and scope of Economics: Wealth, Welfare, Scarcity and Growth - Methods of Economic Analysis - Approaches to Economic Analysis: Micro and Macro Economics - Basic Concepts of Economics.

UNIT II: DEMAND AND SUPPLY

(10 hrs.)

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

UNIT III: PRODUCTION

(10 hrs.)

Cost and Revenue Curves - Break-Even Analysis - Production Function - Types - Law of Variable Proportions - Laws of Return to Scale.

UNIT IV: MARKET STRUCTURES

(10 hrs.)

Market - Meaning - Characteristics - Market Structure and Price Determination: Perfect Competition - Monopoly - Monopolistic and Oligopoly.

UNIT V: NATIONAL INCOME AND MACRO ECONOMIC POLICY

(8 hrs.)

Definition, Concept, Methods of Measuring National Income - Business Cycle - Inflation: Meaning, Types, Causes, Measures - Deflation - Monetary Policy - Fiscal Policy.

Text Books

1. Ruddar Datt & K.P.M.Sundharam-Indian Economy - S.Chand &Company Ltd, New Delhi, 2016.
2. Puri V.K and Misra S.K: Indian Economy, Himalaya, Mumbai, 2014.
3. Gregory Mankiw (2016) 'Principles of Microeconomics, CBS Publishers, Delhi.

Reference Books:

1. Uma Kapila (Ed.) (2017-18), Indian Economy Since Independence, Academic Foundation, New Delhi, 28th Edition.
2. Jhingan (2014), Economics of Development and Planning - Vikas Publishing House, Bangalore,
3. Kausik Basu (Ed.) (2012), Oxford Companion to Indian Economy, 3rd Edition, OUP, New Delhi.
4. Dhingra, I C., (2014), Indian Economy, Sultan Chand & Sons, New Delhi.
5. Agarwal.A.N. (2012), Indian Economy, Wiley Eastern Ltd, New Delhi.
6. Government of India, Economic Survey, (various years).

INDIAN ECONOMY

Semester: IV/V
Course Code: 21ECOU0XG2

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

Objectives:

1. To facilitate the students to understand different sectors, development and planning of Indian Economy.

Specific Course Objective

1. To understand the nature and scope of Indian Economic Development.
2. To know about planning and development in India.
3. To understand the role of agriculture sector in Economic Development.
4. To highlight the importance of industrial and service sectors development in India.
5. To learn the importance of foreign trade and economic policy.

Specific Course Outcomes

1. Becoming clear in the basic concepts of growth and development.
2. Realizing the importance of effective planning and gaining skills to evaluate planning.
3. Examining the contribution of different sectors of economy.
4. Analyzing the relationship between the importance of foreign trade and economic policy in India.

Unit I: Nature and Scope of Indian Economy

(10 hrs.)

Underdevelopment - Meaning - Characteristic of Indian Economy - Economic Development and Growth - Determinants and Obstacles of Economic Development - India as a mixed Economy - Sustainable Development.

Unit II: Planning and Development

(10 hrs.)

Definition of Planning - Objectives - Planning Commission - Five Year Plans of India - Achievements and Failures of Economic Planning in India - NITI Aayog - Structure - Objectives and Role.

Unit III: Agriculture and Economic

(10 hrs.)

Role of Agriculture in Indian Economy - Production and Productivity - Green Revolution and Organic Farming - Problems of Indian Agriculture - Agriculture Finance.

Unit IV: Industrial and Service Sectors

(8 hrs.)

Industrialization- Meaning - Problems - Role of Industrialization - Industrial Finance - Industrial Policy - Industrial Sickness - Trade Union - Service Sector - Broader Classification - Contribution to Economic Development.

Unit V: Foreign Trade and Economic Policy

(10 hrs.)

International Trade and Development - Foreign Direct Investment (FDI) - New Economic Policy (LPG) - World Trade Organization (WTO) - Special Economic Zones (SEZs) - Demonetization - Goods and Services Taxes.

Text Books

1. Ruddar Datt & K.P.M.Sundharam-Indian Economy - S.Chand &Company Ltd, New Delhi, 2016.
2. Puri V.K and Misra S.K: Indian Economy, Himalaya, Mumbai, 2014.

Reference Books:

1. Uma Kapila (Ed.) (2017-18), Indian Economy since Independence, Academic Foundation, New Delhi, 28th Edition.
2. Jhingan (2014), Economics of Development and Planning - Vikas Publishing House, Bangalore,
3. Kausik Basu (Ed.) (2012), Oxford Companion to Indian Economy, 3rd Edition, OUP, New Delhi.
4. Dhingra, I C., (2014), Indian Economy, Sultan Chand & Sons, New Delhi.
5. Joshi, V. and I.M.D. Little (1996), "India's Economic Reforms: 1991-2001", Oxford University Press, New Delhi.
6. Agarwal.A.N. (1990), Indian Economy, Wiley Eastern Ltd, New Delhi.
7. Government of India, Economic Survey, (various years).

TAMIL NADU ECONOMY

Semester : IV/V
Course Code : 21ECOU0XG3

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

Objective

1. To make the students understand the growth process on Tamil Nadu economy.

Specific Course Objectives of Learning

1. To understand the dynamics of Tamil Nadu economy;
2. To study the agriculture sector;
3. To know the industrial sector;
4. To obtain familiarity with state finance; and
5. To acquaint with the development programmes.

Specific Course Outcomes

1. Knowing the profile of Tamil Nadu economy.
2. Identifying the agriculture issues in Tamil Nadu.
3. Knowing about the industrial performance in the state.
4. Acquiring the knowledge of state finance in Tamil Nadu.\
5. Acquainting with the development programmes in the state.

UNIT - I: PROFILE OF TAMIL NADU

(9 hrs)

Tamil Nadu Geographical Areas - Location - Physical Division - Demographic Profile of Tamil Nadu - Human Development Index - State Domestic Product - Structure - Contribution.

UNIT - II: AGRICULTURAL SECTOR

(10 hrs)

Land use and cropping patterns - Principal Crops - Sources of irrigation - Agricultural Labour Force - Agricultural Marketing - Defects, Remedial Measures - Regulated market - Agricultural Finance - Trends and Problems.

UNIT - III: INDUSTRIAL SECTOR

(10 hrs)

Industrial Development Major Industries - MSME, Cottage and Village Industries - Ancillary Industries - Handloom Industries - Government's role in Industrial Development - Industrial Financial Institutions - Labour Welfare Measures.

UNIT - IV: STATE FINANCE

(10 hrs)

State Finance - Revenue and Expenditure of the State - Tamil Nadu's Recent Budget - Health Care and other Government Schemes - Unemployment Problem.

UNIT - V: DEVELOPMENT PROGRAMMES

(9 hrs)

Development Programmes: Poverty Alleviation Programmes - Panchayat Raj Institution - Tamil Nadu Educational Policies - Public Distribution System.

Text books

1. Leonard, A.J., (2006), 'Tamil Nadu Economy', Macmillan India Ltd, Delhi.
2. MIDS, (1995), 'Tamil Nadu Economy', MIDS, Chennai.

References

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

**VALUE ADDED COURSES
BUDGETARY ANALYSIS**

Semester :
Course Code : 21ECO0VA1

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 look at budget.

Specific Course Objective of learning

1. To understand the budgetary concepts and procedures.
2. To identify the resources for fiscal deficit.
3. To become familiar with budgetary procedures.

Specific Course Outcomes

1. Understanding the budgetary concepts and procedures.
2. Gaining capacity to analyze budgets.
3. Preparing a family budget as case, using standard concepts.

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

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

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

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

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

Text Books

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

References

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

Outcomes	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	2	3	3	2	3
CO2	3	3	3	3	3
CO3	2	3	3	3	3