

ST. XAVIER'S COLLEGE (AUTONOMOUS)
PALAYAMKOTTAI - 627 002

(Recognized as "College with Potential for Excellence" by UGC)

(Accredited by NAAC at "A⁺⁺" Grade with a CGPA of 3.66 out of 4 in IV Cycle)

(Star College Programme by DBT, Govt. of India.)

Affiliated to Manonmaniam Sundaranar University, Tirunelveli

SYLLABUS



*Preserve this copy of the syllabus until you complete the course, as it is
an important document of your present course of study.*

Name: _____

M.A. Economics

Choice Based Credit System (CBCS)

(w.e.f. June 2023)



ST. XAVIER'S COLLEGE (AUTONOMOUS)

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SYLLABUS

PROGRAMME OUTCOMES (POS) FOR PG PROGRAMME

At the end of a Post-Graduate programme students of Economics

PO-1 Critical Thinking: Acquire the knowledge in the respective field and take informed actions

PO-2 Communication: Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language, make meaning of the world by connecting people, ideas, books, media and technology.

PO-3 Individual and teamwork: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO-4 Problem Analysis: Identify, formulate, review research literature, and analyse complex problems reaching substantiated conclusions using the principles of all branches of sciences, commerce, economics, management studies, language and literature.

PO-5 Design/development of solutions: Design solutions for problems and design system components or processes that meet the specified needs with appropriate consideration for the public, health and safety, and the cultural, societal, and environmental considerations.

PO – 6 Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data and synthesis of the information to provide valid conclusions.

PO – 7 Modern tool usages: Create, select and apply appropriate techniques, resources, and modern IT tools including prediction and modelling to complex activities with an understanding of the limitations.

PO – 8 Self-directed and life-long learning: Recognize the need for and have the preparation and ability to engage in independent and life-long learning in the broadest context of socio-technological changes.

PROGRAMME SPECIFIC OUTCOMES (PSO)

PSO1 A study of Economics looks at production, consumption, distribution, investments, taxation and how people spend and save money.

PSO2 The study explains how societies, governments, businesses, households, and individuals allocate their scarce resources.

PSO3 The study of National Income Accounting teaches them how to do income calculations easily.

PSO4 The study of economics provides valuable knowledge for making decisions in everyday life.

PSO5 The programme gives benefits and costs of alternative careers, and the likely impacts of public policies including universal education, health care and a higher minimum wage.

PSO6 The complementary study of mathematics, statistics and econometrics, the primary quantitative method used in the discipline of economics enables students to become critical consumers of statistically based arguments about numerous public and private issues rather than passive recipients.

PSO7 To impart knowledge for enabling students to develop data analytics skills and meaningful interpretation to the data sets so as to solve the *Economic/Research* problems.

PSO8 The study of development economics analysis helps us to understand the big themes of the 21st century like; poverty and inequality, globalization and trade, and the contrasting experience of success and failure in the economies of different regions of the world

PSO9 To develop conceptual models to predict the changes in the economic policies and market conditions with the use of rigorous statistical analysis.

PSO10 To understand economic problems clearly, the knowledge of quantitative techniques in the area of mathematics and statistics is very essential. This course is meant to train the student in this direction.

PSO11 The course explains the consequences of changes in the quantity of money on economic variables such as interest rates, inflation, the exchange rate, and unemployment.

PSO12 The course analyses the impact of public policy on the allocation of resources and the distribution of income in the economy and also analyses public expenditures, taxation, budgetary procedures, stabilization instruments, debt issues.

M.A. Economics – Course Pattern
(With effect from June 2023)

| Sem | | Status | Code | Name of the course | Hrs | Credits |
|-----|---|-----------------------|--------------------|--|-----------|-----------|
| I | A | Core 1 | 23PECC11 | Advanced Microeconomics | 6 | 4 |
| | | Core 2 | 23PECC12 | Advanced Macroeconomics | 6 | 4 |
| | | Core 3 | 23PECC13 | Mathematical Economics | 6 | 4 |
| | | EC 1 | 23PECE11 | Rural Economics / Modern Economic Thought | 5 | 3 |
| | | EC 2 | 23PECE12 | Regional Economics/ Population Studies-Demography | 5 | 3 |
| | B | SEC 1 | 23PECS11 | Project Appraisal | 2 | 2 |
| | | | | Sub-Total | 30 | 20 |
| II | A | Core 4 | 23PECC21 | Managerial Economics | 6 | 4 |
| | | Core 5 | 23PECC22 | Monetary Economics | 6 | 4 |
| | | Core 6 | 23PECC23 | Statistics for Economists | 6 | 4 |
| | | EC 3 | 23PECE21 | Economics in Everyday Life / Company Law | 5 | 4 |
| | | EC 4 | 23PECE22 | Computer Application in Economics / Economics of Climate Change | 3 | 3 |
| | | EC 5 | 23PECE23 | Practical - Computer Application in Economics | 2 | 1 |
| | B | SEC 2 | 23PECS21 | Leadership Quality and Development | 2 | 2 |
| | | | Sub – Total | 30 | 22 | |
| III | A | Core 7 | 23PECC31 | Public Economics | 5 | 4 |
| | | Core 8 | 23PECC32 | Development Economics | 5 | 4 |
| | | Core 9 | 23PECC33 | Research Methodology | 5 | 4 |
| | | Core 10 | 23PECC34 | International Economics | 5 | 4 |
| | | Core 11 | 23PECC35 | Industrial Economics | 4 | 3 |
| | | EC – 6 | 23PECE31 | Welfare Economics / Urban Economics | 6 | 5 |
| | B | Internship | 23PECI31 | Carried out in summer vocation at the end of semester II | - | 2 |
| | | | Sub – Total | 30 | 26 | |
| IV | A | Core 11 | 23PECC41 | Indian Economic Development and Policy | 6 | 4 |
| | | Core 12 | 23PECC42 | Labour Economics | 6 | 4 |
| | | Core 13 | 23PECC43 | Econometric Methods | 6 | 4 |
| | | Project | 23PECC44 | Project & Viva-Voce | 4 | 4 |
| | | EC 7 | 23PECE41 | Economics of Social Issues / Human Resource Development | 4 | 3 |
| | B | SEC 3 | 23PECS41 | Academic Writing Skills for Economists | 4 | 3 |
| | C | Extension Activity | | STAND | - | 1 |
| | | | Sub – Total | 30 | 23 | |
| | | | Total | 120 | 91 | |

Abbreviations

- C- Core
- EC – Elective Course
- SEC – Skill Enhancement Course
- I – Internship

EXTRA CREDIT COURSE

23PECEC1 – Economics of Tourism Management

23PECEC2 – Indian Financial System

23PECEC3 – Micro Finance and Rural Credit

23PECEC4 – Entrepreneurial Development

VALUE- ADDED COURSES

23PECVA1 – Use of Statistical tools with SPSS

23PECVA2 – Database on Indian Economy

SEMESTER – I
ADVANCED MICRO ECONOMICS
(23PECC11)

| | | | |
|---------------------|-------------|------------------|--------------------|
| SEMESTER - I | CORE | HOURS – 6 | CREDITS - 4 |
|---------------------|-------------|------------------|--------------------|

Course Outcomes (Cos):

| No. | Course Outcomes | K-Levels |
|------------|---|------------|
| CO1 | To understand individuals' behaviours as per market behaviour | K2 |
| CO2 | To illustrate and analyse the theories of consumer behaviour | K1, K2, K4 |
| CO3 | To illustrate and identify the choice under uncertainty. | K2, K3 |
| CO4 | To compare how price and output is determined in different market situations and evaluate the market structures | K2, K4, K5 |
| CO5 | To identify and examine the alternative theories of firms. | K3, K4 |
| CO6 | To define, explain, and compare the theory of distribution. | K1, K2, K4 |

K₁ – Remember, K₂ - Understand, K₃ – Apply, K₄ – Analyse, K₅ – Evaluate, K₆ – Create.

Unit - I: Consumer Choice **(18 Hours)**

Cardinal and ordinal utility - Indifference curve approach – Decomposition of price effect: Substitution effect and income effect – Compensatory Demand Curve – Consumer surplus: Marshall's and Hicksian measures – Revealed Preference Theorem – Derivation of Marginal Utility schedule for money income.

Unit - II: Economics of Information **(18 Hours)**

Informational asymmetry – Choice under Uncertainty – N-M Index – Inter-temporal choice - Market for lemons- Adverse selection – Insurance market and adverse selection – Solution to principal agent problem- Hidden action (Moral Hazard) - Signalling and Screening.

Unit - III: Market Structure Models **(18 Hours)**

- a. Perfect competition – Price and output determination
- b. Monopoly – Short run and long run equilibrium - Price discrimination monopoly control, and regulation.
- c. Monopolistic competition–Chamberlin Model.
- d. Oligopoly – Duopoly price game-dominant strategy -Nash Equilibrium Collusive and Non-collusive Models.
- e. Monopsony – Price and output determination.

Unit - IV: Alternative Theories of Firm **(18 Hours)**

Full Cost Pricing Rule- Limits pricing theory- Bains Theory- Sylos-Labini Model-Modigliani's Models- Input-output model: Linear programming applications in decision making- Peak Load Pricing – Administered Pricing- Purchasing Power Parity Price.

Unit - V: Distribution Theories**(18 Hours)**

Neo-classical approach: Marginal productivity theory - Product exhaustion theorem - Modern theory of distribution – Factor Pricing in imperfect product and factor markets- Determination of Wages –Labour supply and wage determination – Role of trade unions and collective bargaining- Theories of Interest- Theories of Profit.

Text Books:

1. Jhingan M.L, (2004) Advanced Economic Theory. Vrindha Publications (P) Ltd., New Delhi, 2004.
2. Agarwal, H.S. (2008) Micro Economic Theory, (Ane's Books Pvt. Ltd.,) New Delhi.

Reference Books

1. Hal R. Varian (2004), Intermediate Micro Economics (East-West Press: New Delhi).
2. Ruffin Roy. J (1992), Intermediate Micro Economics Harper & Collins Publishers.
3. Koutsiyiannis A. (1978), Modern Micro Economics, (Macmillan- London).

Web Resources:

1. <http://open.oregonstate.education/intermediatemicroeconomics/chapter/module-1>
2. http://saylordotorg.github.io/text_introduction-to-economic-analysis/s16-monopoly.html
3. http://saylordotorg.github.io/text_introduction-to-economic-analysis/s17-games-and-strategic-behaviour.html

CO-PO Mapping (Course Articulation Matrix)

| CO /PO | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 |
|--|------|------|------|------|------|
| CO1 | 3 | 3 | 3 | 3 | 3 |
| CO2 | 3 | 3 | 3 | 3 | 3 |
| CO3 | 3 | 3 | 3 | 3 | 3 |
| CO4 | 3 | 3 | 3 | 3 | 3 |
| CO5 | 3 | 3 | 3 | 3 | 3 |
| Weightage | 15 | 15 | 15 | 15 | 15 |
| Weighted percentage of Course Contribution to Pos | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |

Level of Correlation between PSO's and CO's

(Suggested by UGC as per Six Sigma Tool – Cause and Effect Matrix)

Assign the value

1 – Low 2 – Medium 3 – High 0 – No Correlation

**ADVANCED MACROECONOMICS
(23PECC12)**

| | | | |
|---------------------|-------------|------------------|--------------------|
| SEMESTER - I | CORE | HOURS – 6 | CREDITS - 4 |
|---------------------|-------------|------------------|--------------------|

Course Outcomes (Cos):

| No. | Course Outcomes | K-Levels |
|------------|---|--------------------|
| CO1 | To understand how different school understood output, price level and employment of an economy. | |
| CO2 | Defines and understand the concepts of general Equilibrium in the Economy and its models and approaches | K1, K2 |
| CO3 | Define, Illustrate and examine the role of rational expectations influencing macroeconomics variables, models of income and the various approaches to the working of business cycles. | K1, K2, K4 |
| CO4 | To demonstrate, identify and to understand the functions of the major propositions of new Keynesian macroeconomics | K2, K3, K4 |
| CO5 | To understand how, Evaluate and to analyse the open economy model in post Keynesian era | K1, K4, K5 |
| CO6 | To explain and apply the role of stabilization policies such as fiscal and monetary policy on the economy. | K2, K3, K4, K5, K6 |

K₁ – Remember, K₂ - Understand, K₃ – Apply, K₄ – Analyse, K₅ – Evaluate, K₆ – Create.

Unit - I: Classical, Keynesian and Post Keynesian Macroeconomics (18 Hours)

Classical Theory of Output and Employment- Full employment equilibrium- AD-AS Model- Keynesian Theory of Output and Employment- Under employment equilibrium- Effective Demand - IS-LM- BP Model.

Unit - II: The New Classical Macroeconomics (18 Hours)

Rational Expectation Hypothesis - Aggregate supply hypothesis - Policy implications of new classical Approaches - Source of Productivity shocks in Real Business Cycle Theory- Stabilisation Policy and Unemployment- Role of money in Real Business Cycle Theory’ - Policy implications of real business cycle theory.

Unit - III: New Keynesian Macroeconomics (18 Hours)

Core propositions of new Keynesian macroeconomics- Wage and Price Rigidities- New Keynesian business cycle theory- Policy implications of new Keynesian macroeconomics

Unit - IV: Open Economy Macroeconomics (18 Hours)

Openness in goods in financial market- output interest rate and exchange rate- exchange rate regimes- exchange rate and balance of payments- Mundell- Fleming Model.

Unit - V: Macroeconomic Policies (18 Hours)

Stabilisation policies - Theory of policy- Tinbergens Approach- Fiscal Policy- Monetary Policy- Optional Policy Mix - Crowding out effect- Bond Financed and Tax Financed Government Expenditure- Rules Vs Discretion.

Text Books

1. Dornbusch, Rudiger, Stanley Fischer, and Richard Startz (2014). *Macroeconomics*, McGraw-Hill Education, New Delhi.
2. Mankiw, N. G. (2016). *Principles of microeconomics* (8th ed.). CENGAGE Learning Custom Publishing.

Reference Books

1. Michl, T. R. (2015) *Macroeconomic Theory: A Short Course*. Routledge, New York. .
2. Blanchard, O., & Giavazzi, F. (2003). Macroeconomic effects of regulation and deregulation in goods and labor markets, *The Quarterly Journal of Economics*, 118(3), 879-907.
3. Romer D., 1996, *Advanced Macroeconomics*, McGraw-Hill International.

Web Resources

1. <https://www.econlib.org/library/Enc/bios/Keynes.html>
2. <https://www.postkeynesian.net/post-keynesian-economics/>
3. <https://www.bu.edu/econ/files/2014/08/DLS1.pdf>

CO-PO Mapping (Course Articulation Matrix)

| CO /PO | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 |
|---|------|------|------|------|------|
| CO1 | 2 | 3 | 2 | 2 | 3 |
| CO2 | 2 | 3 | 2 | 3 | 3 |
| CO3 | 2 | 3 | 3 | 3 | 3 |
| CO4 | 3 | 3 | 3 | 2 | 3 |
| CO5 | 3 | 3 | 3 | 3 | 3 |
| Weightage | 12 | 15 | 13 | 13 | 15 |
| Weighted percentage of Course Contribution to Pos | 2.4 | 3 | 2.6 | 2.6 | 3 |

Level of Correlation between PSO's and CO's

(Suggested by UGC as per Six Sigma Tool – Cause and Effect Matrix)

Assign the value

1 – Low 2 – Medium 3 – High 0 – No Correlation

MATHEMATICAL ECONOMICS

(23PECC13)

| | | | |
|---------------------|-------------|------------------|--------------------|
| SEMESTER - I | CORE | HOURS – 6 | CREDITS - 4 |
|---------------------|-------------|------------------|--------------------|

Course Outcomes (Cos):

| No. | Course Outcomes | K-Levels |
|-----|---|------------|
| CO1 | Understand importance of mathematical tools in understanding economic theory | K1, K2, K3 |
| CO2 | Understand the mathematical structure of standard economic theoretical framework | K1, K2, K4 |
| CO3 | Equip students with mathematical tools to solve optimization problems appear in economic theory | K2, K4, K5 |
| CO4 | Equip students with tools to read the technical writing appear in standard economic journals | K1, K3, K4 |
| CO5 | Analyse the dynamics of macroeconomic policies in an economy | K1, K2, K4 |
| CO6 | Analyse mathematically the dynamics of the growth process in an economy | K3, K2, K5 |

K₁ – Remember, K₂ - Understand, K₃ – Apply, K₄ – Analyse, K₅ – Evaluate, K₆ – Create.

Unit - I: Introduction to Linear Algebra (18 Hours)

Sets - Basic concepts - Ordered sets – Cartesian Product – Domain, Codomain and Range – Matrix – Vectors – Types of Matrices – Inverse Matrix - Cramer's rule for solving system of linear equations, Simultaneous Linear equations, Input-output model - open and closed models (Theory Only).

Unit - II: Differential Calculus (18 Hours)

Meaning, rules for differentiation, total and marginal revenue, total and marginal cost, Concept and conditions for maxima & minima, profit and revenue maximization, minimization of cost – point elasticity and point of inflection - Maximizing excise tax revenue in monopolistic competitive market.

Unit - III: Optimization Techniques with Constraints (18 Hours)

Functions of several variables - partial and cross differentiation - second order partial derivatives - applications of partial differentiation - Euler's theorem - Cobb – Douglas Production Function - Constrained Optimization by substitution - Lagrange Multiplier Technique.

Unit - IV: Linear and Non-Linear Programming (18 Hours)

Optimization with Inequality Constraints - Linear Programming–Formulation-Primal and Dual-Graphical and Simplex method – Duality Theorem – Non-Linear Programming – Kuhn – Tucker Conditions.

Unit - V: Economic Dynamics**(18 Hours)**

Differential Equations - Basic Ideas - Types-Solution of Differential Equations (Homogenous and Exact) - Linear Differential Equations with Constant Coefficients (First and Second Order).

Textbooks:

1. Geoff Renshaw (2016) Maths for Economics, 4th Ed. Oxford University Press.
2. Mabbet A J (1986) Workout Mathematics for Economists, Macmillan Master Series, 4th Edition London.

References:

1. Carter, M. (2001). Foundations of Mathematical Economics, MIT Press.
2. Chiang, A. C. and Wainwright, K. (2005). Fundamental Methods of Mathematical Economics, McGraw-Hill Education.
3. Dowling E. T., Mathematics for economists, Schaum Series (latest edition).

Web Resources

1. <https://www.udemy.com/course/mathematics-for-economists-functions-and-derivatives/>
2. <https://www.classcentral.com/course/swayam-mathematical-economics-14187>
3. <https://www.coursera.org/learn/introduction-to-calculus>

CO-PO Mapping (Course Articulation Matrix)

| CO / PO | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 |
|---|------|------|------|------|------|
| CO1 | 3 | 3 | 3 | 3 | 3 |
| CO2 | 3 | 3 | 3 | 3 | 3 |
| CO3 | 3 | 3 | 3 | 3 | 3 |
| CO4 | 3 | 3 | 3 | 3 | 3 |
| CO5 | 3 | 3 | 3 | 3 | 3 |
| Weightage | 15 | 15 | 15 | 15 | 15 |
| Weighted percentage of Course Contribution to Pos | 3 | 3 | 3 | 3 | 3 |

Level of Correlation between PSO's and CO's

(Suggested by UGC as per Six Sigma Tool – Cause and Effect Matrix)

Assign the value

1 – Low 2 – Medium 3 – High 0 – No Correlation

RURAL ECONOMICS

(23PECE11)

| | | | |
|---------------------|-------------------------|------------------|--------------------|
| SEMESTER - I | ELECTIVE – I (1) | HOURS – 5 | CREDITS - 3 |
|---------------------|-------------------------|------------------|--------------------|

Course Outcomes (Cos):

| No. | Course Outcomes | K-Levels |
|-----|---|------------|
| CO1 | To understand rural development through economic theories | |
| CO2 | To label and interpret the nature and scope of rural economics. | K1, K2, |
| CO3 | To define and demonstrate the theories of rural poverty and unemployment. | K1, K2 |
| CO4 | To recall, outline and determine Institutional and Organisational Changes | K1, K2, K5 |
| CO5 | To organize, examine and evaluate. Rural development programmes | K3, K4, |
| CO6 | To summarize, develop and explain planning and policy for development | K2, K3, K5 |

K₁ – Remember, K₂ - Understand, K₃ – Apply, K₄ – Analyse, K₅ – Evaluate, K₆ – Create.

Unit - I: Introduction to Rural Economics (15 Hours)

Nature and Scope of Rural Economics - Inter-disciplinary approach of Rural Economics – Components - Structure and Characteristics -Pre and Post-independence - Rural Development: Meaning, Nature and Scope - Factors Affecting Rural Growth

Unit - II: Rural Resources and Rural development theories (15 Hours)

Rural Resources: Nature, Types and Magnitude - Rural Resources Management and Development - Application of Technology in Rural Development – Problems and prospects - W.W. Rostow's - Lewis-Fei-Ranis and Gandhian Approach to Rural Development.

Unit - III: Rural Demography and Occupational Structure (15 Hours)

Demography: Population Size, Sex and Age Composition - Density of Population- Population Problems and Challenges – Family Welfare Measures in Rural India - Occupational Structure: Nature of Rural Occupations - Occupational Distribution in Rural India – The Concept of Work Participation Rates.

Unit - IV: Rural Poverty and Unemployment (15 Hours)

Rural Poverty: Meaning, Estimates, Causes and Consequences – Unemployment: Meaning, Types and Magnitude of Rural Unemployment - Causes and Consequences - National Programmes for Rural Development - Community Development Programmes and Employment Guarantee Schemes.

Unit - V: Rural Empowerment Programmes (15 Hours)

Bharat Nirman, Provisions of Urban Amenities in Rural Area (PURA), Mahatma Gandhi National Rural Employment Guarantee Act - Agencies for Rural Development: Government,

Semi-Government Organisations, Co-Operative Institutions, Non-Government Organisations and Voluntary Agencies for Rural Development.

Text Books:

1. Vasant Desai: Rural Development in India, Himalaya Publishing House, Mumbai, 2012.
2. Dutt and Sundaram- Indian Economy, S. Chand Publications, New Delhi, 2013-07-02.

References Books:

1. Singh, K., & Shishodia, A. (2016). Rural development: Principles, policies, and management. SAGE Publishing India.
2. Hoff, K., Braverman, A., & Stiglitz, J. E. (1993). The economics of rural organization. Oxford: Oxford University Press.
3. Hill, B., & Ray, D. (1987). Economics for agriculture: food, farming and the rural economy. Basingstoke, UK: Macmillan Education.

Web Resources:

1. <https://www.kobo.com/us/en/ebooks/public-finance>
2. <https://www.amazon.in/PUBLIC-FINANCE-AMBAR-GHOSH-ebook/dp/B07W5F2P1Q>
3. https://www.niti.gov.in/sites/default/files/202108/11_Rural_Economy_Discussion_Paper_0.pdf

CO-PO Mapping (Course Articulation Matrix)

| CO /PO | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 |
|--|------|------|------|------|------|
| CO1 | 3 | 3 | 3 | 3 | 3 |
| CO2 | 3 | 3 | 3 | 3 | 3 |
| CO3 | 3 | 3 | 3 | 3 | 3 |
| CO4 | 3 | 3 | 3 | 3 | 3 |
| CO5 | | | | | |
| Weightage | 15 | 15 | 15 | 15 | 15 |
| Weighted percentage of Course Contribution to Pos | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |

Level of Correlation between PSO's and CO's

(Suggested by UGC as per Six Sigma Tool – Cause and Effect Matrix)

Assign the value

1 – Low 2 – Medium 3 – High 0 – No Correlation

**MODERN ECONOMIC THOUGHT
(23PECE11)**

| | | | |
|---------------------|-------------------------|------------------|--------------------|
| SEMESTER - I | ELECTIVE – I (2) | HOURS – 5 | CREDITS - 3 |
|---------------------|-------------------------|------------------|--------------------|

Course Outcomes (COs):

| S. No. | Course Outcomes | K-Levels |
|--------|---|---|
| CO1 | To accumulate knowledge about economic thoughts of different school | |
| CO2 | Understand Keynesian Theory of Capital and Income Distribution | K ₁ , K ₂ , K ₄ |
| CO3 | Ability to understand about Classical Economics and Feminist Economics' Alternative | K ₁ , K ₂ , K ₃ , K ₄ |
| CO4 | Understand the ideas of New Institutional Economics | K ₁ , K ₂ , K ₄ |
| CO5 | Gain knowledge about Distinction between Ecological and Environmental Economics | K ₁ , K ₂ , K ₄ |
| CO6 | Understand economic ideas like role of Marxist Theory of Capitalistic Development | K ₁ , K ₂ , K ₃ , K ₄ |

K₁ – Remember, K₂ - Understand, K₃ – Apply, K₄ – Analyse, K₅ – Evaluate, K₆ – Create.

Unit - I: Classical Economic Thought (15 Hours)

Economic ideas of Irving Fisher: The Quantity theory of Money- Theory of Interest, Joseph A. Schumpeter: Method of Study –Deductive Method –Inductive Method-Theory of Economic Development- Role of Entrepreneur – Innovation-Business Cycles – Capitalism and Socialism.

Unit - II: Neo Classical Economic Thought (15 Hours)

Ragnar Nurske – Foreign Resources – Capital Formation –Disguised Unemployment, Mrs- Joan Robinson –Imperfect Competition – F.Y. Edgeworth –Mathematical Economic Analysis –Three Dimensional Utility

Unit - III: Keynesian Economic Thought (15 Hours)

Lord Lionel Robbins – Definition of Economics-Causes of Depression -Milton Friedman – Quantity Theory of Money –Permanent Income Hypothesis - Friedman and Savage Hypothesis – Samuelson’s Impact of Keynesian Economics –Revealed Preference Theory –Business Cycles –Social Welfare Function - Samuelson’s Utility Possibility Approach

Unit - IV: Post Keynesian Economic Thoughts (15 Hours)

Ideas of Modern Indian Economists-R.K. Mukerjee- Institutional theory of Economics-Regional Economics - Ecological Theory of Population -Planning in India, J.K. Mehta – Static and Dynamic Economics -Economics of Welfare -Economics of Growth and Development-Economics of Fast

Unit - V: Indian Economists**(15 Hours)**

C.N. Vakil: Planning- Wage -Goods Model-Role of Technological Progress-Poverty -Deficit Financing and Public Expenditure, V.K.R.V. Rao: Economic Activities - Institutional Development-Deficit Financing-Fiscal Policy-Human Factor in Economic Growth, Amartya Kumar Sen – Poverty and Famine, Poverty and Inequality - Concept of Capability and Entitlement - Choice of Techniques.

Text Books:

1. U.C. Kulshrestha (1994), History of Economic Thought, Lakshmi Narain Agarwal
2. S. Sankaran (2006), A History of Economic Thought, Margham Publications

Reference Books:

1. Eric Roll (1956) A History of Economic Thought, Prentice Hall, Inc, U.S.A,
2. Pankaj Srivastava (2018) Economic Thinkers, DND Publications, Jaipur
3. M.L. Jhingan, M. Girija and L. Sasikala (2011), History of Economic Thought, Vrindha Publications

Web Resources:

1. https://ebrary.net/112930/history/a_brief_history_of_economic_thought
2. <https://www.exploring-economics.org>
3. <https://www.econlib.org>

CO-PO Mapping (Course Articulation Matrix)

| CO /PO | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 |
|---|------|------|------|------|------|
| CO1 | 3 | 3 | 3 | 3 | 3 |
| CO2 | 3 | 3 | 3 | 3 | 3 |
| CO3 | 3 | 3 | 3 | 3 | 3 |
| CO4 | 3 | 3 | 3 | 3 | 3 |
| CO5 | 3 | 3 | 3 | 3 | 3 |
| Weightage | 15 | 15 | 15 | 15 | 15 |
| Weighted percentage of Course Contribution to Pos | 3 | 3 | 3 | 3 | 3 |

Level of Correlation between PSO's and CO's

(Suggested by UGC as per Six Sigma Tool – Cause and Effect Matrix)

Assign the value

1 – Low 2 – Medium 3 – High 0 – No Correlation

REGIONAL ECONOMICS

(23PECE12)

| | | | |
|---------------------|--------------------------|------------------|--------------------|
| SEMESTER - I | ELECTIVE – II (1) | HOURS – 5 | CREDITS - 3 |
|---------------------|--------------------------|------------------|--------------------|

Course Outcomes (Cos):

| No. | Course Outcomes | K-Levels |
|-----|---|------------|
| CO1 | To have knowledge about planning in allocation of resources at regional level | |
| CO2 | Understand the Nature and scope of regional economics and its need | K1, K3, k4 |
| CO3 | Discuss the Models of regional, inter-regional and multi-regional models | K4, K5 |
| CO4 | Evaluate the various theories of regional economic growth | K2, K3, K4 |
| CO5 | Describes the Measurement of interregional economic growth at State level | K4, K4 |
| CO6 | apply Regional Aspects of Stabilization and Growth Policy | K1, K4, K5 |

K₁ – Remember, K₂ - Understand, K₃ – Apply, K₄ – Analyse, K₅ – Evaluate, K₆ – Create.

Unit - I: Introduction to Regional Economics (15 Hours)

Nature and scope of regional economics – Regional economics and regional science – Regional and Urban Economics: Need for a separate study of regional economics – Concept and types of regions: Administrative, Planning, Agro-climatic, Economic and Functional regions.

Unit - II: Approaches to Regional Growth (15 Hours)

Approaches to regional growth: Models of regional, inter-regional and multi-regional models; Export base models – Location Theory - Gravity models – Shift-share analysis

Unit III: Theories of Regional Economic Growth (15 Hours)

Neoclassical models – Dualistic models: Social dualism – Labour surplus model of Arthur Lewis- Migration and development: Harris-Todaro – Core-Periphery models: Myrdal's Cumulative Causation Hypothesis – Regional Input-output models - New Economic Geography models: Paul Krugman's model of industrial location and development

Unit - IV: Regional Economic Growth in India (15 Hours)

Administrative regions in India: State, District, Taluk and Village; Urban and Rural regions - Concept, definition and measure of State Income (GSDP) – Rural and urban GDP – Differences in estimation of national income (GDP) and State Income (GSDP) - Measurement of interregional economic growth at State level

Unit - V: Regional Aspects of Stabilization and Growth Policy (15 Hours)

Post-war Regional Cyclical Behaviour and Policy Measures for Stabilization, Theories to Explain Regional Differences in Growth, Fiscal Programmes, Tax and Transfer Programmes, Regional Orientation to Policy Programmes and Central Responsibility.

Text books

1. Capello Roberta. (2016). *Regional Economics*. Routledge (New York).
2. Temple, M. (1994). *Regional economics*. St. Martin's Press.

References

1. Harry W Richardson (1973): *Regional Growth Theory*, Macmillan.
2. Harry W. Richardson. (1970). *Elements of Regional Economics*. Penguin Books (New York).
3. Harry W Richardson (1969): *Regional Economics: Location theory, Urban structure and regional change*, Weidenfeld & Nicolson (London)

Web resources

1. <http://www.rri.wvu.edu/WebBook/Giarratani/contents.htm>
2. <https://researchrepository.wvu.edu/cgi/viewcontent>
3. https://ddceutkal.ac.in/Syllabus/MA_Economics

CO-PO Mapping (Course Articulation Matrix)

| CO /PO | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | PSO6 |
|---|------|------|------|------|------|------|
| CO1 | 2 | 3 | 3 | 3 | 2 | 3 |
| CO2 | 3 | 2 | 2 | 3 | 2 | 3 |
| CO3 | 3 | 2 | 3 | 2 | 2 | 2 |
| CO4 | 3 | 3 | 3 | 2 | 3 | 3 |
| CO5 | 3 | 2 | 2 | 2 | 3 | 2 |
| Weightage | 14 | 12 | 14 | 14 | 12 | 13 |
| Weighted percentage of Course Contribution to PoS | 2.8 | 2.4 | 2.8 | 2.8 | 2.4 | 2.6 |

Level of Correlation between PSO's and CO's

(Suggested by UGC as per Six Sigma Tool – Cause and Effect Matrix)

Assign the value

1 – Low 2 – Medium 3 – High 0 – No Correlation

**POPULATION STUDIES - DEMOGRAPHY
(23PECE12)**

| | | | |
|---------------------|--------------------------|------------------|--------------------|
| SEMESTER - I | ELECTIVE – II (2) | HOURS – 5 | CREDITS - 3 |
|---------------------|--------------------------|------------------|--------------------|

Course Outcomes (Cos):

| No. | Course Outcomes | K-Levels |
|------------|---|----------------|
| CO1 | To define and explain the basic concepts of population studies. | K1, K2, |
| CO2 | To outline construct and conclude the population growth and distribution. | K2, K3, K5, |
| CO3 | To organize and interpret the various population structure. | K3, K4, |
| CO4 | To examine and criticise the various population dynamics. | K4, K5, |
| CO5 | To label, and outline the various population policy. | K1, K5, |
| CO6 | To summarize different population theories | K5 |

K₁ – Remember, K₂ - Understand, K₃ – Apply, K₄ – Analyse, K₅ – Evaluate, K₆ – Create.

Unit – I: Introduction (15 Hours)

Population Studies: Nature and scope, Concepts and Definitions, Population Studies and Demography, Development of population Studies in World and India, Inter relationship between population studies and other disciplines. Sources of Population Data: Population Census-History of Census Taking in India, Vital Statistics Registration Systems-Historical Background-Vital Registration in different countries, Civil Registration in India-Historical Background, Sample Surveys-Important Demographic Sample Surveys conducted in India - Dual Reporting System - Population Registers and International Publications.

Unit – II: Population Growth and Distribution (15 Hours)

Population Growth: World, Developing and Developed countries. India's Population Growth-Trends and differentials in state and union territories, Factors Responsible for Rapid Population increase in India, Current Population situation and Future Prospects, Population Distribution among developed and developing regions of the world, Factors affecting Population distribution of India, Basic measures of population distribution.

Unit – III: Population Structure and Characteristics (15 Hours)

Sex and Age Structure: Sex and Age Structure of various countries, Population PYRAMID, Factors affecting Age and Sex Structure of population, Aging Population. Marital status classification of population, Literacy and Educational attainment: Definition, Source of Data Measures used to study Literature, Religious classification of population.

Unit – IV: Population Dynamics (15 Hours)

Fertility: Terms and Concepts, Factors affecting Fertility: Physiological factors, Social and Cultural factors, Proximate determinants of Fertility, Sources Fertility data, Basic measures of Fertility.

Mortality: Importance of the study, Terms and Concepts Data Sources and limitations, Factors important in the analysis of mortality, Measures of mortality, infant childhood and Maternal

Mortality, Components of infant mortality, Levels and Trends and Mortality rates, Global HIV/AIDS Epidemic.

Migration: of the study, Concepts and Definitions, Internal and International migration, Sources of Migration data, Measures of migration: Direct and Indirect methods, Everett Lee's Conceptual Framework for Migration analysis.

Unit – V: Population Policy (15 Hours)

Concepts and Definition, Types of population Policies, Mortality, Fertility and Migration influencing Policies, World Population Plan of Action, Millennium Development Goals (MDGs), India's Population Policy, Family Planning Programme under various Five Year Plan Periods, Approaches to Family Planning Programme, Reproductive and Child Health Approach, National Population Policy 2000.

Text Books:

1. Shrivastava O.S. (2007), Demography and Population Studies, Quality Publishing Company (ajay)
2. Jain R.K. (2014), Textbook of Population Studies, Astha Publishers and Distributors

References:

1. BhendeAsha, A and Tara Kanitkar, (2012) Principles of Population studies, Mumbai Himalaya Publishing House.
2. Bogue, Donald J (1969), Principles of Demography, New York: John Wiley and Sons.
3. BaskarD.Misra. (1980), An introduction to the Study of Population, Madras: South Asian Publishers Pvt.Ltd.

Web Resources:

1. <https://censusindia.gov.in/census.website/>
2. <https://www.taylorfrancis.com/series/international-population-studies/ashser1353>
3. <https://data.worldbank.org/indicator/SP.POP.GROW>

CO-PO Mapping (Course Articulation Matrix)

| CO /PO | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 |
|--|------|------|------|------|------|
| CO1 | 3 | 3 | 3 | 3 | 3 |
| CO2 | 3 | 3 | 3 | 3 | 3 |
| CO3 | 3 | 3 | 3 | 3 | 3 |
| CO4 | 3 | 3 | 3 | 3 | 3 |
| CO5 | 3 | 3 | 3 | 3 | 3 |
| Weightage | 15 | 15 | 15 | 15 | 15 |
| Weighted percentage of Course Contribution to Pos | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |

Level of Correlation between PSO's and CO's

(Suggested by UGC as per Six Sigma Tool – Cause and Effect Matrix)

Assign the value

1 – Low 2 – Medium 3 – High 0 – No Correlation

**PROJECT APPRAISAL
(23PECS11)**

| | | | |
|---------------------|----------------|------------------|--------------------|
| SEMESTER - I | SEC – I | HOURS – 2 | CREDITS - 2 |
|---------------------|----------------|------------------|--------------------|

Course Outcomes (Cos):

| S. No. | Course Outcomes | K – Levels |
|------------|---|------------|
| CO1 | To define and describe basic principles of project | K1, K2 |
| CO2 | Students would learn capital budgeting and project financing | K1, K2 |
| CO3 | Students would be quipped to appraise a project. | K2, K3, K4 |
| CO4 | Students would learn to prepare a business plan | K2, K4 |
| CO5 | To understand various financial and technical aspects of project management | K4, K6 |
| CO6 | To evaluate government project implementation | K5 |

K₁ – Remember, K₂ - Understand, K₃ – Apply, K₄ – Analyse, K₅– Evaluate, K₆– Create.

Unit – I: Introduction (6 Hours)

Meaning and Concepts of project – difference between project and programme – aspects of project preparation - Criterion for Project Appraisal

Unit – II: Project Appraisal Techniques (6 Hours)

Non-Discounting Techniques: Urgency, Payback Period, Accounting Rate of Return, Debt Service Coverage Ratio - Discounting Criteria: Techniques Net Present Value, Benefit Cost Ratio, Internal Rate of Return and Annual Capital Charge.

Unit – III: Types and measure of risk (6 Hours)

Types and measure of risk – simple estimation of risk – sensitivity analysis – scenario analysis.

Unit – IV: Social Cost Benefit Analysis (SCBA) (6 Hours)

Rationale for SCBA – UNIDO approach to SCBA – Little and Mirrless approach to SCBA.

Unit-V: Project Management (6 Hours)

Forms of project organization – project planning – project control – human aspects of project management – prerequisites for successful project implementation

Text Books:

- Prasanna Chandra (2017) Project Planning: Analysis, Selection, Implementation and Review –, 7/e, TMH, 2011.
- Narendra Singh (2016) Project Management and Control –, HPH, 2003.
- Bhavesh M. Patel (2012) Project Management –, 2/e, Vikas Publication.

REFERENCE BOOKS

- Nicholas, John M., (2000) Project Management for Business and Technology: Principles and Practice –2/e, Pearson.
- Choudhury (2017) Project Management: The Managerial Process – Gray& Larson, 4/e, TMH, 2011. Project Management –, 1/e, TMH. 7.

SEMESTER – II
MANAGERIAL ECONOMICS
(23PECC21)

| | | | |
|----------------------|-------------|------------------|--------------------|
| SEMESTER - II | CORE | HOURS – 6 | CREDITS - 4 |
|----------------------|-------------|------------------|--------------------|

Course Outcomes (Cos):

| S.No. | Course Outcomes | K-Levels |
|------------|---|----------|
| CO1 | To define, explain and elaborate the scope of managerial economics. | K1, K2 |
| CO2 | To identify and elaborate the demand forecasting techniques. | K2, K6 |
| CO3 | To classify and discuss the pricing strategies. | K2, K6 |
| CO4 | To summarise and illustrate the BEP and Capital Budgeting. | K1, K2 |
| CO5 | To examine and discuss the investment appraisal. | K4, K6 |
| CO6 | To demonstrate how individual firms adopts into market structure | K6 |

K₁ – Remember, K₂ - Understand, K₃ – Apply, K₄ – Analyse, K₅ – Evaluate, K₆ – Create.

Unit – I: Managerial Objectives of the Firm (18 Hours)

Economics and management- Managerial models of the firm, (a) Sales – revenue –Maximizing model (Baumol), (b) Managerial utility maximizing model (Williamson), (c) Marris model- Behavioural model to the firm, (a) “Satisfying” (b) X-Inefficiency.

Unit – II: Competitive Advantage (18 Hours)

Structure conduct – Performance theory - Generic strategies for competitive advantage (Michal porter) - The five forces model of competition- Sustaining competitive advantage, (a) Economics of scale as barrier to entry- mergers, (b) differentiation as barrier to entry.

Unit – III: Pricing Strategies (18 Hours)

Price discrimination: First degree, second degree and third-degree price discrimination- Approached to Pricing: Cost-plus pricing - target return pricing - product life cycle pricing: skimming strategy-penetration strategy and transfer pricing.

Unit – IV: Non-Price Competition (18 Hours)

Non-Price Competition: Components of the marketing mix - Promotion in marketing mix: Dorfman-Steiner condition for advertising expenditure - Determinants of advertising elasticity of demand- Product policy and place in the marketing mix: Product mix decisions Place: selecting a marketing channel.

Unit – V: Investment Appraisal (18 Hours)

The investment selection process- Estimating cash flows- Evaluating Investment: payback method - net present value method - The cost of capital: dividend valuation model – Capital-asset pricing model.

Text Books

1. Maheshwari (2012) Managerial Economics, Yogesh.
2. H.L. Ahuja (2018) Managerial Economics

Reference Books

1. Howard Davies (1998) Managerial Economics, Pitman, London.
2. William Boyes (2005), The New Managerial Economics (Indian Adaptation Edition), New Delhi Biztantra.
3. Ahuja H.L. (2008) Managerial Economics (S. Chand & Co, New Delhi).

Web Resources

1. <https://www.amazon.in/Managerial-Economics-Yogesh-Maheshwari-ebook/dp/B00K7BMJQA>
2. <https://www.kobo.com/in/en/ebook/managerial-economics-5>
3. <https://plato.stanford.edu/entries/game-theory/>

CO-PO Mapping (Course Articulation Matrix)

| CO /PO | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | PSO6 |
|---|------|------|------|------|------|------|
| CO1 | 3 | 3 | 3 | 3 | 3 | 3 |
| CO2 | 3 | 3 | 3 | 3 | 3 | 3 |
| CO3 | 3 | 3 | 3 | 3 | 3 | 3 |
| CO4 | 3 | 3 | 3 | 3 | 3 | 2 |
| CO5 | 3 | 3 | 3 | 3 | 3 | 3 |
| Weightage | 15 | 15 | 15 | 15 | 15 | 15 |
| Weighted percentage of Course Contribution to Pos | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |

Level of Correlation between PSO's and CO's

(Suggested by UGC as per Six Sigma Tool – Cause and Effect Matrix)

Assign the value

1 – Low 2 – Medium 3 – High 0 – No Correlation

**MONETARY ECONOMICS
(23PECC22)**

| | | | |
|----------------------|-------------|------------------|--------------------|
| SEMESTER - II | CORE | HOURS – 6 | CREDITS - 4 |
|----------------------|-------------|------------------|--------------------|

Course Outcomes (Cos):

| No. | Course Outcomes | K-Levels |
|------------|--|-------------|
| CO1 | To list out and outline the theories of money. | K1, K2, |
| CO2 | To explain construct and distinguish various determinate of money supply and multiplier. | K2, K3, K4, |
| CO3 | To label, explain and evaluate the capital market. | K1, K2, K5 |
| CO4 | To define, illustrate and importance of banking sector. | K1, K2, K5, |
| CO5 | To interpret and make use of monetary policy. | K2, K3, |
| CO6 | To examine and solve economic problem related with monetary policy | K4, K5 |

K₁ – Remember, K₂ - Understand, K₃ – Apply, K₄ – Analyse, K₅ – Evaluate, K₆ – Create.

Unit – I: Classical Theories of Money (18 Hours)

Demand for Money Quantity theories of money – Fisher and Cambridge- Keynesian monetary theory- James Tobin’s portfolio analysis of money demand- Don Patinkin’s Integration– Real Balance Effect- Milton Friedman’s reformulated quantity theory.

Unit – II: Supply of Money (18 Hours)

Supply of Money: Types and determinants of money supply – money multiplier- Theories of interest rate: Classical (Adam Smith, Ricardo and Marx) – Keynes – Hicks – Hansen.

Unit – III: Money and Capital Market (18 Hours)

Money and Capital Market: Significance and functions of Money market and capital market- Role of financial intermediaries – Effects of financial intermediation- Non-banking financial institutions – Gurley and Shaw theory.

Unit – IV: Banking and its Functions (18 Hours)

Banking: Functions of Commercial banks - Credit creation: process and limitations - Role of Commercial banks: after nationalization and liberalization - Role of RBI – Regulation of money supply and credit- Narasimham Committee Reports: 1991 and 1998- Raguram Rajan Committee Report 2007.

Unit – V: Monetary Policies (18 Hours)

Monetary Policy: Objectives, Instruments and Limitations of monetary policy - Monetarism Vs Keynesianism - Supply side policies.

Text Books:

1. Keith, B and Peter, H (2009) Monetary Economics: Policy and its theoretical Basis, Palgrave Macmillian.

- Frederic, M.S. (2015) The Economics of Money, Banking and Financial Markets, 11th edition, Pearson Publication.

References:

- Jhingan, M.L. (2005), Monetary Economics [Konark Publication, New Delhi].
- Sundaram, K.P.M. (2003), Money, Banking and International Trade [Vikas, New Delhi].
- Vaish, M.C. (2004), Money, Banking and International Trade [New Age International, New Delhi].

Web Resources:

- <https://www.amazon.in/Handbook-Monetary-Economics-Benjamin-Friedman-ebook/dp/B00EXOTZ96>
- <https://link.springer.com/book/10.1057/9780230280854>
- <https://www.rbi.org.in/scripts/AnnualPublications.aspx?head=Handbook%20of%20Statistics%20on%20Indian%20Economy>

CO-PO Mapping (Course Articulation Matrix)

| CO /PO | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 |
|---|------|------|------|------|------|
| CO1 | 3 | 3 | 3 | 3 | 3 |
| CO2 | 3 | 3 | 3 | 3 | 3 |
| CO3 | 3 | 3 | 3 | 3 | 3 |
| CO4 | 3 | 3 | 3 | 3 | 3 |
| CO5 | 3 | 3 | 3 | 3 | 3 |
| Weightage | 15 | 15 | 15 | 15 | 15 |
| Weighted percentage of Course Contribution to Pos | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |

Level of Correlation between PSO's and CO's

(Suggested by UGC as per Six Sigma Tool – Cause and Effect Matrix)

Assign the value

1 – Low 2 – Medium 3 – High 0 – No Correlation

**STATISTICS FOR ECONOMISTS
(23PECC23)**

| | | | |
|----------------------|-------------|------------------|--------------------|
| SEMESTER - II | CORE | HOURS – 6 | CREDITS - 4 |
|----------------------|-------------|------------------|--------------------|

Course Outcomes:

| No. | Course Outcomes | K-Levels |
|------------|---|----------|
| CO1 | Summarize the basic Probability rules and understand theoretical distributions. | K1 & K2 |
| CO2 | Acquire knowledge on the various sampling methods and testing of Hypotheses | K2 & K3 |
| CO3 | Use t test and chi square for analysis | K4 |
| CO4 | To understand the importance of one- and two-way ANOVA | K5 |
| CO5 | To know the various Decision-making tools available | K6 |
| CO6 | To test null and alternative hypotheses with different test | K6 |

K₁ – Remember, K₂ - Understand, K₃ – Apply, K₄ – Analyse, K₅ – Evaluate, K₆ – Create.

Unit – I: Introduction to Statistics (18 Hours)

Statistics: Meaning, definition and uses of statistics in Economics – Types of data: qualitative and quantitative: discrete and continuous – sources of data: primary and secondary – Descriptive statistics: Frequency Distributions - Measures of Central Tendency: mean, median and mode - Measures of dispersion: meaning and characteristics, range, quartiles, variance and standard deviation.

Unit – II: Sampling Methods and Sampling Distribution (18 Hours)

Census – selecting a sample – parameter and statistics – good sampling – types of sampling: probability and non-probability - random sampling - Simple random sampling: with and without replacement - sampling distributions: Student’s - t, Chi-square and F-distribution.

Unit – III Probability Theory (18 Hours)

Probability and Probability distribution: meaning and concepts – Additive and Multiplicative law probability - Bayes’ Theorem – Conditional probability – probability distribution: Discrete probability distribution (Binomial and Poisson) – Continuous probability distribution: (normal, chi-squared and students’ T distribution).

Unit – IV: Hypothesis Testing (18 Hours)

Meaning of hypothesis – types of hypothesis – testing procedure – hypothesis testing using level of Significance and confidence Interval – using t – test, Paired t- test – probability value - Chi-square Test – Test of Goodness of Fit – Type I and Type II Errors - Standard Error.

Unit – V: Analysis of Variance (18 Hours)

Analysis of Variance (ANOVA): Meaning and Assumptions – One-Way and Two-Way Classifications - F-test: Meaning and Assumptions.

Text Books

1. Gupta S.P. (2017) Statistical Methods, Sultan Chand and Sons, New Delhi.
2. Anderson, Sweeney and Williams (2014) Statistics for Business and Economics, Cengage.

References:

1. Aggarwal. Y.P (2002), “Statistics Methods – Concepts Application and Computation”, Sterling Publishers Private Ltd., New Delhi.
2. Vittal P.R., Mathematical Statistics, Margham Publications
3. Pillai R.S.N. and Bagavathi V (2010), Statistics, Sultan & amp; Chand Sons, New Delhi.

Web Resources

1. <https://www.statista.com>.
2. <https://techjury.net>
3. https://dss.princeton.edu/online_help/analysis/interpreting_regression.htm

CO-PO Mapping (Course Articulation Matrix)

| CO /PO | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 |
|---|------|------|------|------|------|
| CO1 | 3 | 2 | 3 | 2 | 2 |
| CO2 | 3 | 2 | 3 | 3 | 3 |
| CO3 | 3 | 3 | 3 | 3 | 3 |
| CO4 | 3 | 3 | 3 | 3 | 3 |
| CO5 | 2 | 3 | 3 | 2 | 3 |
| Weightage | 14 | 13 | 15 | 13 | 14 |
| Weighted percentage of Course Contribution to Pos | 2.8 | 2.6 | 3 | 2.6 | 2.8 |

Level of Correlation between PSO's and CO's

(Suggested by UGC as per Six Sigma Tool – Cause and Effect Matrix)

Assign the value

1 – Low 2 – Medium 3 – High 0 – No Correlation

**ECONOMICS IN EVERYDAY LIFE
(23PECE21)**

| | | | |
|----------------------|---------------------------|------------------|--------------------|
| SEMESTER - II | ELECTIVE – III (1) | HOURS – 5 | CREDITS - 4 |
|----------------------|---------------------------|------------------|--------------------|

Course Outcomes (Cos):

| No. | Course Outcomes | K-Levels |
|------------|---|----------------|
| CO1 | To know what is price and to explain and identify its mechanism in economies function | K1, K2, K3 |
| CO2 | To define, illustrate and evaluate the value of economics in social customs of the society | K1, K2, K5 |
| CO3 | To find and examine the evils happening in the economy and to identify and measures to overcome those evils | K1, K3, K4, K5 |
| CO4 | To illustrate, analyse the importance of various dimensions of economics in the society | K2, K4, K5 |
| CO5 | Analyse, measure and to discuss the role of economics in the effective functioning of the country | K4, K5, K6 |
| CO6 | Evaluate every day activities with economic theories | K5, K6 |

K₁ – Remember, K₂ – Understand, K₃ – Apply, K₄ – Analyse, K₅ – Evaluate, K₆ – Create.

Unit – I: Thinking about Prices (15 Hours)

Price determination: The concept of willingness to Pay – Inflation: Meaning, measurement and inflation rate across the Indian states – price indices: consumer and wholesale price index – Application (inflation index).

Unit – II: Economics of Social Customs (15 Hours)

Economics of rising age at marriage and declining family size – Economics of Divorce: globalization and Indian family system – Economics of gift: gift in kind Vs gift in cash- Application – Gender economic inequality.

Unit – III: Economics of Social Evils (15 Hours)

Discrimination: Meaning, rational, causes and economic consequences. Economics of the leisure – Trade between trade-off between work and leisure – Addiction: Meaning, rational, causes, legalizing drugs and economic consequences – Corruption: An Economists Perspective and application.

Unit – IV: Economics of Arts and Sports (15 Hours)

Performing arts: Meaning and its supply and demand at the local level – Globalization and commercialization of Indian music – Economics of Sports: Role of economic competition in sporting activity.

Unit – V: Economics of Institutions (15 Hours)

Institutions: concepts and meaning from economic perspectives – types of social institutions – gender and discrimination – caste and affirmative action – religion and economics

Text Books:

1. Robert J. Stone braker (2005), The Joy of Economics: Making Sense of Life, Winthrop University
2. Tim Har ford (2000), The Logic of Life: Discovering the New Economics of Everything, (London: Little).
3. Paul Hayne (1998), Economic Way of Thinking, Prentice Hall.

References:

1. Penson, T. H (2011), The Economics of Everyday Life: A First Book of Economic Study, Nabu Press Cambridge University Press
2. David D. Friedman (1997), Hidden Order: The Economics of Everyday Life, Harper Business
3. David George Surdam (2015), Century of the Leisured Masses: Entertainment and the Transformation of Twentieth-Century America, Oxford University Press

Web Resources

1. <https://www.economicshelp.org/blog/5628/economics/applying-economics-in-everyday-life/>
2. <https://www.sociologygroup.com/economics-in-everyday-life/>
3. <http://acdc2007.free.fr/woodcock2020.pdf>

CO-PO Mapping (Course Articulation Matrix)

| CO /PO | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 |
|---|------|------|------|------|------|
| CO1 | 3 | 3 | 3 | 3 | 3 |
| CO2 | 2 | 3 | 3 | 3 | 3 |
| CO3 | 3 | 3 | 3 | 3 | 3 |
| CO4 | 3 | 3 | 2 | 3 | 3 |
| CO5 | 3 | 3 | 3 | 2 | 2 |
| Weightage | 14 | 15 | 13 | 14 | 13 |
| Weighted percentage of Course Contribution to Pos | 2.8 | 3 | 2.8 | 2.8 | 2.8 |

Level of Correlation between PSO's and CO's

(Suggested by UGC as per Six Sigma Tool – Cause and Effect Matrix)

Assign the value

1 – Low 2 – Medium 3 – High 0 – No Correlation

Company Law
(23PECE21)

| | | | |
|----------------------|---------------------------|------------------|--------------------|
| SEMESTER – II | ELECTIVE – III (2) | HOURS – 5 | CREDITS – 4 |
|----------------------|---------------------------|------------------|--------------------|

Course Outcomes (Cos):

| No. | Course Outcomes | K-Levels |
|------------|---|------------|
| CO1 | To understand the regulatory aspects and different companies acts | K1, K2 |
| CO2 | To summarize and identify numerous schemes for MSMEs | K2,K3, K4 |
| CO3 | To enable the students to synthesis company processes, meetings and decisions. | K2, K3, K4 |
| CO4 | To equip the students with framework of dividend distribution and role of auditors in a company along with Annual Report Concepts | K4, K5 |
| CO5 | To comprehend and evaluate working of depositories and their functions in stock market under SEBI Guidelines. | K4, K5, K6 |
| CO6 | To equip the students get creative idea about stock market. | |

K₁ – Remember, K₂ - Understand, K₃ – Apply, K₄ – Analyse, K₅ – Evaluate, K₆ – Create.

Unit I: Introduction (15 Hours)

Business enterprise: meaning and concept and its types – company: definition, meaning, nature and characteristics - Lifting of corporate veil - Administration of Company Law - Types of companies - Formation of company – promoters - Procedural aspects of corporate entities - Concept of Limited Liability Partnership (LLP) : Formation and Registration, LLP Agreement, Alteration in LLP Agreement, Annual and Event Based Compliances of LLB- Start-up India Policy - Micro, Small and Medium Enterprises: MSMEs Schemes.

Unit II: Documents and shares (15 Hours)

Memorandum of Association and its alteration - Articles of Association - doctrine of constructive notice and ultra vires and indoor management - book building: Issue and Allotment of shares, Issue of Share Certificates, Further Issue of Share Capital, Rights issue and Bonus Shares - Transfer and Transmission of Securities: Buyback of Securities.

Unit III: Management and Meetings (15 Hours)

Management: meaning and concept – Directors: meaning and classification of directors, Powers and Duties, convening, conduct of meetings and types of meeting – Resolutions: meaning and drafting procedure - CSR Expenditure and Impact Assessment.

Unit IV: Dividends, Audit, Annual Report (15 Hours)

Provisions relating to payment of Dividend - Company Audit - auditor’s qualification and disqualifications, Auditor’s appointment, Rotation of auditors, Auditor’s removal, Auditors’ report and Auditor’s powers - Board’s Report – Winding Up: Concept and Modes of Winding Up; Provisions of winding up under Insolvency and Bankruptcy Code 2016.

Unit V: The Depositories and SEBI

(15 Hours)

Depository: meaning, concepts, role and Functions of Depositories - depository Participants - Admission of Securities - The Depositories Act 1996 - Dematerialization & Re-materialisation - International Securities Identification Number (ISIN) Depository Process - Securities and Exchange Board of India (SEBI): Objective and Powers and functions - Compliances under SEBI (LODR) Regulations, 2015 - Key Provisions pertaining to Corporate Governance.

Text Books:

1. A. Ramaiya (2020) Guide to the Companies Act, Wadhwa & Company Nagpur.
2. Avtar Singh (2018) Company Law, Eastern Book Company.

References:

1. Gupta C.B. and Srinivasan N.P., Entrepreneurship development in India, Sulthan Chand and Sons
2. Kamal Garg, Bharat's Handbook on MSMEs (Micro, Small and Medium Enterprises), Bharat Law House Pvt. Ltd.
3. Indian Institute of Banking and Finance, Micro, Small and Medium Enterprises (MSMEs), TAXMANN

Web Resources:

1. <https://msme.gov.in/public-procurement-policy>
2. https://www.wto.org/english/thewto_e/thewto_e.htm
3. http://coirboard.gov.in/?page_id=221

CO-PO Mapping (Course Articulation Matrix)

| CO /PO | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 |
|---|------|------|------|------|------|
| CO1 | 3 | 3 | 3 | 3 | 3 |
| CO2 | 3 | 3 | 3 | 3 | 3 |
| CO3 | 3 | 3 | 3 | 3 | 3 |
| CO4 | 3 | 3 | 3 | 3 | 3 |
| CO5 | 3 | 3 | 3 | 3 | 3 |
| Weightage | 15 | 15 | 15 | 15 | 15 |
| Weighted percentage of Course Contribution to Pos | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |

Level of Correlation between PSO's and CO's

(Suggested by UGC as per Six Sigma Tool – Cause and Effect Matrix)

Assign the value

1 – Low 2 – Medium 3 – High 0 – No Correlation

**COMPUTER APPLICATIONS IN ECONOMICS
(23PECE22)**

| | | | |
|----------------------|------------------------|------------------|--------------------|
| SEMESTER - II | ELECTIVE IV (1) | HOURS – 3 | CREDITS - 3 |
|----------------------|------------------------|------------------|--------------------|

Course Outcomes (Cos):

| No. | Course Outcomes | K-Levels |
|-----|--|-----------------------|
| CO1 | To define, explain and categorize various data and its use in Economics | K1, K2, K4 |
| CO2 | To know how, demonstrate and evaluate various methodology to analyse and apply data using computer | K1, K2, K3 K4, K5 |
| CO3 | Build and draw inference by presenting data in diagrammatic way | K3, K4, K6 |
| CO4 | To find, explain and analyse parametric data and to evaluate and built models | K1, K2, K4, K5, K6 |
| CO5 | To find, explain and analyse non-parametric data and to evaluate and built models | K1, K2, K4, K5, K6 |
| CO6 | To generate and develop new in software packages | K6 |

K₁ – Remember, K₂ - Understand, K₃ – Apply, K₄ – Analyse, K₅ – Evaluate, K₆ – Create.

Unit – I: Introduction of Data and M.S Word (15 Hours)

Data: Meaning, Nature: ordinal and cardinal, Sources (primary and secondary) and Types (Quantitative and Qualitative) – Importance of data in economic analysis and Policy formation – Methods of Data Analysis.

MS Word: Creating new Documents – Document template – Typing Text – Editing Text – Insert Text – Go to, Find, and Replace text or word - Formatting of Text – generating equations – making references – track changes.

Unit – II: Graphical presentation in Excel (15 Hours)

MS- excel basics, charts: column, trend line, pie, bar and area charts – sorting and filtering data - histogram – box plot - scatter plot.

Unit – III: Functions and Descriptive Statistics in Excel (15 Hours)

Basic Formulas: Subtract, Multiply, Divide, Square Root, Percentage, Paste Options, simple and compound growth rate. Statistical Functions: Average, Average if, Median, Mode, Variance, Standard Deviation, Min, Max, Large and Small - Forecast – descriptive statistics

Unit – IV: Inferential Statistics in Excel (15 Hours)

Inferential statistics – F test, t – test, moving average, ANOVA – Chi-square (χ^2) statistics, correlation – regression: R square, significance, F and P values, coefficient and residuals.

Unit – V: Data Analysis Using SPSS (15 Hours)

Data view - characteristics of Variable view – output viewer - Naming variables - compute new variable – Coding and Recoding of data – Descriptive Statistics: Frequencies, Descriptive, Cross Tabulation - correlation and regression (Only SLRM).

Text Books:

1. Myers, J.L., & Well, A.D., & Lorch, R.F., Jr. (2010). Research Design and Statistical Analysis (3rd Edition). Mahwah, NJ: Erlbaum. ISBN: 978-0-8058-6431-1
2. Urdan, T. (2010) Statistics in Plain English, 3rd Edition. New York: Routledge Psychology Press.

Reference books:

1. Parsons J.; Oja D.; Ageloff R.; Carey P (2010) New Perspectives on Microsoft Office Excel 2010, Comprehensive, Course Technology (2010) First Edition
2. Manuals – SPSS, GRETL, R Program, SAS, E-views, STATA
3. Lipschutz M.M. and S. Lipschutz (1982), Theory and problems of Data processing: Schaum's Outline Series, (McGraw Hill, New York.

Web References

1. <https://www.excel-easy.com/>
2. https://archive.mu.ac.in/myweb_test/TYBA%20study%20material/Research%20Methodology%20-%20IX.pdf
3. <https://imotions.com/blog/statistical-tools/>

CO-PO Mapping (Course Articulation Matrix)

| CO /PO | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 |
|--|------------|------------|------------|------------|------------|
| CO1 | 3 | 2 | 3 | 3 | 3 |
| CO2 | 2 | 2 | 3 | 3 | 3 |
| CO3 | 2 | 3 | 3 | 3 | 3 |
| CO4 | 3 | 3 | 3 | 3 | 2 |
| CO5 | 3 | 3 | 3 | 2 | 3 |
| Weightage | 13 | 13 | 15 | 14 | 14 |
| Weighted percentage of Course Contribution to Pos | 2.6 | 2.6 | 3.0 | 2.8 | 2.8 |

Level of Correlation between PO's and PSO's

(Suggested by UGC as per Six Sigma Tool – Cause and Effect Matrix)

Assign the value

1 – Low 2 – Medium 3 – High 0 – No Correlation

**ECONOMICS OF CLIMATE CHANGE
(23PECE22)**

| | | | |
|---------------------|--------------------------|------------------|--------------------|
| SEMESTER –II | ELECTIVE – IV (2) | HOURS – 5 | CREDITS - 4 |
|---------------------|--------------------------|------------------|--------------------|

Course Outcomes (Cos):

| S.No. | Course Outcomes | K-Levels |
|------------|--|----------|
| CO1 | To define and explain the science of climate change. | K1, K2 |
| CO2 | To explain and identify the climate change policy. | K2, K3 |
| CO3 | To illustrate and analyses the integrated assessment of climate changes. | K2, K4 |
| CO4 | To classify, compare and evaluate climate change impact assessment. | K4, K5 |
| CO5 | To estimate and illustrate the climate change negotiations and equity. | K5, K6 |
| CO6 | To estimate resource allocation to maintain environment sustainability. | K6 |

K₁ – Remember, K₂ - Understand, K₃ – Apply, K₄ – Analyse, K₅ – Evaluate, K₆ – Create.

Unit - I: Introduction (15 Hours)

The roots of climate change: greenhouse gas emissions and rising global temperature- Climate change and economic development: a) climate change –economy transmission mechanisms; b) impact of climate change on human well-being: known and uncertain impacts c) The “tipping points” of dangerous climate change- Impact of climate change on developed and poor economies.

Unit - II: Economic Policies for Climate change Mitigation (15 Hours)

The need for climate change mitigation- Economic explanation of climate change: the concept of “market failure” and how it causes climate change- Using prices and markets for climate change mitigation: taxes, carbon emissions trading (‘cap-and-trade’) and regulations promoting green technology- Ethics of climate change: limits of cost-benefit analysis.

Unit - III: Adapting to Climate Change (15 Hours)

The case for Adaptation to climate change- Adaptive management of risk: managing physical, financial and social risks- International action and adaptation in developing nations.

Unit - IV: Natural Resources Management and Climate Change (15 Hours)

The fundamentals for natural resource management - Economics of water use in context of climate change- Climate change and efficient management of agriculture and fisheries- Sustainable energy.

Unit - V: Local and Global Action (15 Hours)

Economic incentives for “climate smart” Individual action- The role of firms in climate change adaptation and mitigation- National and International policies for “climate smart” innovation and technology diffusion.

Text Books:

1. Perman, R., Ma. Y., Common, M., Maddison, D., Mcgilvray, J., Natural Resource and Environmental Economics, Pearson Education Limited, 2011 (4th Edition).
2. Intergovernmental Panel on Climate Change – Fifth Assessment Report, 2011 Stern, N., The economics of climate change – The Stern Review, Cambridge University Press, 2006.

Reference:

1. F. Ackerman, E. Stanton: Climate Economics: State of the Art. Routledge (2013)
2. W. Nordhaus: A Question of Balance. Yale University Press (2008)
3. D. Acemoglu, P. Aghion, Leonardo Bursztyjn, D Hemous. (2012). “The environment and directed technical change,” American Economic Review, 102(1): 131-166.

Web Resources:

1. <https://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=&cad=rja&uact=8&ved=2ahUKewjc>
2. <https://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=&cad=rja&uact=8&ved=2ahUKewjc->

CO-PO Mapping (Course Articulation Matrix)

| CO /PO | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | PSO6 |
|---|------|------|------|------|------|------|
| CO1 | 3 | 3 | 3 | 3 | 3 | 3 |
| CO2 | 3 | 3 | 3 | 3 | 3 | 3 |
| CO3 | 3 | 3 | 3 | 3 | 3 | 3 |
| CO4 | 3 | 3 | 3 | 3 | 3 | 2 |
| CO5 | 3 | 3 | 3 | 3 | 3 | 3 |
| Weightage | 15 | 15 | 15 | 15 | 15 | 15 |
| Weighted percentage of Course Contribution to Pos | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |

Level of Correlation between PSO's and CO's

(Suggested by UGC as per Six Sigma Tool – Cause and Effect Matrix)

Assign the value

0 – No Correlation, 1 – Low 2 – Medium 3 – High

LEADERSHIP QUALITY AND DEVELOPMENT

(23PECS21)

| | | | |
|----------------------|------------|------------------|--------------------|
| SEMESTER - II | SEC | HOURS – 2 | CREDITS - 2 |
|----------------------|------------|------------------|--------------------|

Course Outcomes (Cos):

Upon completion of this course, the students will be able to

| S.No. | Course Outcomes | K-Levels |
|-------|---|----------|
| CO1 | Understand the importance of Leadership | K1, K4 |
| CO2 | Summarize the leadership Styles | K2,K5 |
| CO3 | Analyze the Motivation required for an Effective Leader | K4, K5 |
| CO4 | Formulate policies to understand Conflict Management | K4,K6 |
| CO5 | Explain the leadership styles of Women in Politics and Business | K2,K4,K6 |
| CO6 | Evaluate creative participation of women in corporate companies | K5,K6 |

K1 – Knowledge, K2 - Understand, K3 – Apply, K4 – Analyse, K5 – Evaluate, K6 – Create.

Unit – I: Introduction (6 Hours)

Leadership- Definition - Evolution and Growth of leadership- Theories of Leadership- Blake and Mouton’s Managerial Grid- House’s Path Goal Theory- Great Man Theory of Leadership.

Unit – II: Traits of a Leader (6 Hours)

Developing Leadership Traits and Skills -Styles of Leadership-Difference between Leadership and Management- Authority Vs Leadership.

Unit – III: Motivation and Emotional Intelligence (6 Hours)

Leadership and Motivation -Emotional Intelligence-Traits of an Ethical Leader- Cultural Dimensions of Leadership- Creating Personal Leadership Brand.

Unit – IV: Group Leadership (6 Hours)

Team Leadership - Conflict Management- Effective Negotiations- Group culture and dynamics.

Unit – V: Women and Leadership (6 Hours)

Women Political Leaders - Women in Corporates- Concept of Glass Ceiling in the Workplace - Influential Indian Women in Corporate.

Textbooks:

1. Kavin Dalton (2013) Leadership and Management Development Pearson Education
2. Stephen R. Covey (2014) Principle-centered Leadership Harper Collins Publisher

References:

1. John Maxwell (2007) The 21 Irrefutable Laws of Leadership, Harper Collins Leadership
2. James M. Kouzes and Barry Z. Posner (2010) The Truth About Leadership, First Edition, Jossey-Bass Publisher
3. Dr. Carrie Picardi (2021) Leadership Essentials You Always Wanted to Know (Self-Learning Management Series) First Edition Vibrant Publishers.

Web Resources:

1. https://www.mindtools.com/pages/article/newLDR_84.htm
2. <https://www.imd.org/imd-reflections/reflection-page/leadership-styles/>
3. <https://www.thebalancecareers.com/conflict-management-skills-2059687>

CO-PO Mapping (Course Articulation Matrix)

| CO /PO | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 |
|--|-------------|-------------|-------------|-------------|-------------|
| CO1 | 3 | 3 | 2 | 3 | 3 |
| CO2 | 3 | 3 | 3 | 3 | 3 |
| CO3 | 3 | 3 | 3 | 3 | 3 |
| CO4 | 3 | 3 | 3 | 3 | 3 |
| CO5 | 3 | 3 | 3 | 3 | 3 |
| Weightage | 15 | 15 | 14 | 15 | 15 |
| Weighted percentage of Course Contribution to Pos | 3 | 3 | 2.8 | 3 | 3 |

Level of Correlation between PSO's and CO's

(Suggested by UGC as per Six Sigma Tool – Cause and Effect Matrix)

Assign the value

1 – Low, 2 – Medium, 3 – High, 0 – No Correlation

SEMESTER – III
PUBLIC ECONOMICS
(23PECC31)

| | | | |
|-----------------------|-------------|------------------|--------------------|
| SEMESTER – III | CORE | HOURS – 5 | CREDITS - 4 |
|-----------------------|-------------|------------------|--------------------|

Course Outcomes (Cos):

| No. | Course Outcomes | K-Levels |
|------------|---|-------------|
| CO1 | To label and interpret the basic theories of public finance. | K1, K2, |
| CO2 | To explain, identify and analyse the public expenditure. | K2, K3, |
| CO3 | To recall, outline and determine about taxes | K1, K2, K5, |
| CO4 | To organize, examine and evaluate about fiscal policy. | K3, K4, |
| CO5 | To summarize, develop and explain about Indian public finance. | K2, K3, K5, |
| CO6 | To derive proper knowledge about structure of fiscal policy of an economy | K1, K3, K6 |

K₁ – Remember, K₂ - Understand, K₃ – Apply, K₄ – Analyse, K₅ – Evaluate, K₆ – Create.

Unit - I: Government Intervention (15 Hours)

Public Economics: Nature and scope of public finance – Rationale for government intervention - Types of government interventions - Musgrave's three functions of Government: allocation, distribution and stabilization – Market failure and provision of public goods, merit goods and club goods - externalities: Positive and Negative - Pigovian tax.

Unit - II: Theories of Public Revenue (15 Hours)

Taxation: Meaning and Concept – shifting and incidence of tax – General and partial equilibrium analysis of taxation – Welfare cost of Income Tax - Theory of optimal taxation – Types of taxes – characteristics of good tax system - Income Tax: Progressive, Regressive, Degressive and Double Taxation – Tax Slab rates in India.

Unit – III Public Expenditure (15 Hours)

Public Expenditure: meaning and concept – causes of rising public expenditure - Wagner's Law - Peacock-Wiseman Hypothesis: displacement, inspection and concentration effects, and Colin Clark Hypothesis – Samuelson theory of public goods - Social Cost - Benefit Analysis – Social return on investment - Zero-Based Budgeting.

Unit - IV: Theories of Public Debt (15 Hours)

Public Debt: Meaning, causes and classification – sources and principles of public debt - Burden of public debt: Ricardo-Pigou, Buchanan and Musgrave Theses — Debt burden and inter-generational equity - Methods of repayment of public debt – redemption of public debt.

Unit - V: Budget and Fiscal Federalism (15 Hours)

Budget: meaning and concept – types of budget – revenue and capital budget – principles of budget – deficit financing: need and impact of deficit financing – monetarist versus Keynesian views on deficit financing.

Fiscal Federalism: Meaning, concept and objectives – optimal fiscal federalism – Role of finance commission – vertical and horizontal devolution of resources and grants – Major recommendations of 15th finance commission.

Text Books:

1. Musgrave and Musgrave (2017) Public Finance in Theory and Practice, 5th Edt. McGraw Hill Education.
2. Tyagi B.P., (2014) Public Finance, Jai Prakash Nath & Company.
3. Ameras Bagchi (2005), Readings in Public Finance, Oxford University Press, New Delhi.

References:

1. Rao, M. Govida and Nirvikar Singh, (2005), The Political Economy of Federalism in India, Oxford University Press, New Delhi.
2. Government of India, Economic Survey (Annual issues). Ministry of Finance, New Delhi. Tamilnadu State Council for Higher Education 15.

Web Resources:

1. <https://www.india.gov.in/my-government/documents/policy>
2. <http://www.niti.gov.in>
3. <https://www.indiabudget.gov.in/>

CO-PO Mapping (Course Articulation Matrix)

| CO /PO | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 |
|--|------|------|------|------|------|
| CO1 | 3 | 3 | 3 | 3 | 3 |
| CO2 | 3 | 3 | 3 | 3 | 3 |
| CO3 | 3 | 3 | 3 | 3 | 3 |
| CO4 | 3 | 3 | 3 | 3 | 3 |
| CO5 | 3 | 3 | 3 | 3 | 3 |
| Weightage | 15 | 15 | 15 | 15 | 15 |
| Weighted percentage of Course Contribution to Pos | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |

Level of Correlation between PSO's and CO's

(Suggested by UGC as per Six Sigma Tool – Cause and Effect Matrix)

Assign the value

1 – Low 2 – Medium 3 – High 0 – No Correlation

**DEVELOPMENT ECONOMICS
(23PECC32)**

| | | | |
|----------------------|-------------|------------------|--------------------|
| SEMESTER - IV | CORE | HOURS – 5 | CREDITS - 4 |
|----------------------|-------------|------------------|--------------------|

Course Outcomes (Cos):

| No. | Course Outcomes | K-Levels |
|------------|---|--------------------|
| CO1 | Understand the concepts of Development | K1, K2, K3 |
| CO2 | Acquire knowledge about the theories of economic development | K1, K2, K3 |
| CO3 | Ability to understand the concepts related to Poverty, Inequality, Health and Education | K1, K2, K3 |
| CO4 | Gain knowledge about the insights of Rural Development | K1, K2, K3, K4, K5 |
| CO5 | Understand the role of State in Fiscal Management | K1, K2, K3, K4, K5 |
| CO6 | Understand and formulate trade policies for Market development | K5, K6 |

K₁ – Remember, K₂ - Understand, K₃ – Apply, K₄ – Analyse, K₅ – Evaluate, K₆ – Create.

Unit - I: Conceptualization Development (15 Hours)

Growth and development: meaning, concept and differences – Approaches to development: Traditional and modern approaches to development - Trickle-down effect - India's Development experience (Kerala-Gujarat- Tamil Nadu and BIMARU models of Development) - Human Development Index.

Unit – II Capital Accumulation, Technological Progress (15 Hours)

Classical Growth Theories: Smith and Ricardo – Harrod-Domar model – Exogenous Growth Model: Solow-Swan – Theory of Technical process: Kaldor - Capital Accumulation Model: Joan Robinson – Overview of Endogenous growth model – Invention, Innovation and Diffusion: Schumpeter - Embodied and Disembodied Technological Progress.

Unit – III: Theories of Underdevelopment (15 Hours)

Dualism and Backward Bending Supply Curve - Vicious Circle of Poverty - Nelson's Low Level Equilibrium Trap - Critical Minimum Effort - Paul Baran's Theory of Underdevelopment - Myrdal's Theory of Cumulative Causation - Kremer's O-Ring theory of development - Dependency theory: Central Propositions, policy implications and Criticisms of Dependency Theory.

Unit - IV: Economic Inequality (15 Hours)

Poverty: meaning, absolute and relative poverty – poverty line (head - count ratio) – inequality: concept and meaning, Lorenz curve – Gini-coefficient - Inverted-U hypothesis – Regional disparities: α convergence and β convergence – divergence – multi dimension of poverty.

Unit - V: Agriculture and Rural Development

(15 Hours)

Role of agriculture in development: Johnston and Mellor – Dual model - Theories of agricultural development: Lewis, Schultz, Mellor, Hayarni and Ruttan – Migration and Agricultural Development - Forced Migration theory: Nichols and Todaro Model.

Text Books:

1. Jhingan M.L. Jhingan B K., (2019) The Economics of Development and Planning.,42 ed., Vrinda Publications
2. Agrawal, A.N., (2014) Indian Economy: Problems of Development and Planning

References

1. Michael P. Todaro and Stephen C. Smith (2004), Economic Development, Pearson Education, Singapore cha- 2, 6,7, 8.
2. Yujiro Hayami (2003), Development Economics: Oxford University Press, New Delhi.
3. Debraj Ray (2009), Development Economics, Oxford University Press, New Delhi.

Web Resources

1. [https://economicsconcepts.com/human_development_index_\(hdi\).htm](https://economicsconcepts.com/human_development_index_(hdi).htm)
2. <https://hdr.undp.org/data-center/human-development-index#/indicies/HDI>
3. <https://web.stanford.edu/~chadj/facts.pdf>

CO-PO Mapping (Course Articulation Matrix)

| CO /PO | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 |
|---|------|------|------|------|------|
| CO1 | 3 | 3 | 3 | 2 | 3 |
| CO2 | 3 | 3 | 3 | 2 | 3 |
| CO3 | 3 | 3 | 3 | 3 | 3 |
| CO4 | 3 | 3 | 3 | 3 | 3 |
| CO5 | 3 | 3 | 3 | 2 | 3 |
| Weightage | 15 | 15 | 15 | 12 | 15 |
| Weighted percentage of Course Contribution to Pos | 3 | 3 | 3 | 2.4 | 3 |

Level of Correlation between PSO's and CO's

(Suggested by UGC as per Six Sigma Tool – Cause and Effect Matrix)

Assign the value

1 – Low 2 – Medium 3 – High 0 – No Correlation

**RESEARCH METHODOLOGY
(23PECC33)**

| | | | |
|-----------------------|-------------|------------------|--------------------|
| SEMESTER - III | CORE | HOURS – 5 | CREDITS - 4 |
|-----------------------|-------------|------------------|--------------------|

Course Outcomes (Cos):

| No. | Course Outcomes | K-Levels |
|------------|--|----------------|
| CO1 | To understand what are all the basic concepts in Research and explain means of data collection | K1, K2 |
| CO2 | Explain and distinguish various sources of primary and secondary data and to apply it in data collection | K2, K3, K4 |
| CO3 | Demonstrate, construct, and explain the functions of presenting data in different methods | K2, K4, K5, K6 |
| CO4 | Able to design and formulate proper research issues | K5, K6 |
| CO5 | To develop the statistical inference and to explain the errors that can happen during data analysis | K3, K4, K5, K6 |
| CO6 | To enable the students to write critical and effective research report. | K4, K5, K6 |

K₁ – Remember, K₂ - Understand, K₃ – Apply, K₄ – Analyse, K₅ – Evaluate, K₆ – Create.

Unit – I: Introduction (15 Hours)

Meaning of research – Types of research: quantitative and Qualitative - methods of social research; deductive and inductive methods - Falsification Theory – Review of Literature: scope, purposes and sources of literature review - Research Gap – Research Questions – formulation of Research problem.

Unit – II: Data Collection (15 Hours)

Sources of Data: Primary and secondary – types of data: times series, cross section and pooled data – Census Vs sampling – probability and non-probability sampling Techniques - methods of data collection: interview, focused group discussion, observation, case study and content analysis – tools of data collection: construction of questionnaire and schedule, pilot study and pre-test.

Unit – III: Research Design (15 Hours)

Research Design: Meaning, significance and features - types of research designs: Descriptive, Correlational, Experimental, Diagnostic and Explanatory - Grounded Theory designs, Ethnographic designs, Narrative Research designs - Mixed Methods Design - Action Research Design – Case study method.

Unit – IV: Data Analysis (15 Hours)

Statistical Inferences – Parameter and Statistics – good estimator - Level of Significance – Hypothesis: Meaning and Types – Type I and Type II Error – Critical region – Steps in Testing of Hypothesis – Interpreting P – Value in Hypothesis testing.

Unit - V: Report Writing

(15 Hours)

Report Writing: abstract - steps in report writing – Layout of report writing – Chapterisation - types of report writing - Mechanics and Precautions for Writing Research Reports - Preliminaries, Contents of Report, References, Bibliography, Appendices, Criteria for the evaluation of the Research Report, writing a research paper.

Text Books:

1. C.R. Kothari., (2002) Research Methodology, Vikas publishing House, New Delhi.
2. Goode W. J and Hatt., (1952) Methods in Social Research, Mcgraw Hill Book Co, Tokyo.

Reference:

1. Young, Pauline V., Scientific Social Surveys and Research, 4th Edition, Prentice Hall of India, 1977
2. Bryman, Alan, Social research methods, 4th Edition, Oxford University Press, 2008
3. Patton, M.Q., Qualitative Research and Evaluation Methods, 3rd Edition Sage 41 Publications, 2002

Web Resources

1. www.socialresearchmethods.net
2. www.ualberta.ca
3. <http://finmin.nic.in>

CO-PO Mapping (Course Articulation Matrix)

| CO /PO | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 |
|---|------|------|------|------|------|
| CO1 | 2 | 3 | 3 | 2 | 3 |
| CO2 | 2 | 3 | 2 | 3 | 3 |
| CO3 | 2 | 3 | 3 | 3 | 3 |
| CO4 | 3 | 3 | 3 | 2 | 2 |
| CO5 | 3 | 3 | 3 | 3 | 3 |
| Weightage | 12 | 15 | 14 | 13 | 14 |
| Weighted percentage of Course Contribution to Pos | 2.4 | 3 | 2.8 | 2.6 | 2.8 |

Level of Correlation between PSO's and CO's

(Suggested by UGC as per Six Sigma Tool – Cause and Effect Matrix)

Assign the value

1 – Low 2 – Medium 3 – High 0 – No Correlation

INTERNATIONAL ECONOMICS
(23PECC34)

| | | | |
|-----------------------|-------------|------------------|--------------------|
| SEMESTER - III | CORE | HOURS – 5 | CREDITS - 4 |
|-----------------------|-------------|------------------|--------------------|

Course Outcomes (COs):

| No. | Course Outcomes | K-Levels |
|------------|---|---|
| CO1 | Understand Theories of International trade | K ₁ , K ₂ , K ₃ |
| CO2 | Learn the Recent Theories in International trade | K ₁ , K ₂ , K ₃ |
| CO3 | Ability to know the concept of Balance of Payments Policies | K ₁ , K ₂ , K ₃ , K ₄ |
| CO4 | Assess the working of MNCs, Foreign Aid | K ₁ , K ₂ , K ₃ |
| CO5 | Understand the working of Foreign Exchange | K ₁ , K ₂ , K ₃ , |
| CO6 | Assess impact of FDI and exchange rate | K ₁ , K ₅ |

K₁ – Remember, K₂ - Understand, K₃ – Apply, K₄ – Analyse, K₅ – Evaluate, K₆ – Create.

Unit – I: Theories of Trade - I **(15 Hours)**

Pure Theory of International Trade: Absolute and Comparative Advantage Theory - Refinements of Comparative Cost Theory - Modern Theory of Factor Endowments: Heckscher-Ohlin-Samuelson - Leontief Paradox - Factor price equalization theorem – Factors Intensity Reversal: The Stolper - Samuelson Theorem and the Rybezynski Theorem.

Unit – II: Theories of Trade – II **(15 Hours)**

Recent Theories of International Trade: Karvi’s Theory of Availability – Lindar’s Theory of Volume of Trade and demand pattern- Posner’s Technological Gap Theory – Vernon’s Product Cycle Theory - Kenen’s Human capital theory- Intra- Industry Trade – Theory of Imperfect Competition - Strategic Theory.

Unit – III: Balance of Payment **(15 Hours)**

Balance of Payments Policies: BOP Disequilibrium – Adjustment Mechanism: Elasticity Approach, Absorption approach and Monetary Approach- Expenditure changing monetary and fiscal policy – Monetary and Fiscal policies for internal and external balance: The Swan and Mundallian Model - Expenditure Switching Policies and Expenditure Reducing Policies – Foreign Trade Multiplier.

Unit – IV: Foreign Aid **(15 Hours)**

Foreign Aid and MNCs. Foreign Aid - Types of Foreign aid – Advantages and Disadvantages – Factors determining foreign aid - Foreign Investment – Foreign Direct investment – Types of FDI – FDI Policy of India- Multinational Corporations – Features of Multinational Corporations - Advantages and Limitations of MNCs – MNCs and International Trade.

Unit – V: Foreign Exchange **(15 Hours)**

Foreign Exchange Risk: meaning and concept of Foreign exchange risk - Sources of foreign exchange risk – types of exchange rate risk - Transaction risk, Translation risk, Economic risk Measurement of Exchange Rate Risk - value-at-risk (VAR) model. Methods of managing

foreign exchange risk - internal and external techniques- Forward contracts, Money market hedges, Currency futures, Currency Options, Currency swaps.

Text Books:

1. Dominick Salvatore (2021) International Economics, 13 Edt., An Indian Adaptation, Wiley India Pvt. Limitation.
2. D.N. Dwivedi (2013) International Economics: Theory and Policy. Vikas Publishing House, New Delhi.
3. M.L. Jhingan (2016) International Economics, Vrindha Publications, New Delhi

References:

1. Francis Cherunillam (2004), International Economics (Tata McGraw Hill, New Delhi).
2. Paul Krugman and Maurice (2013), International Economics: Theory and Policy (New Delhi: Pearson).
3. J.N. Bhagwati (2003), Free Trade Today (Oxford University Press, New Delhi). State Integrated Board of Studies – Economics PG 20.

Web References:

1. <https://www.worldbank.org/en/country/eu>
2. <https://www.imf.org/en/Data>
3. <https://www.economagic.com/>

CO-PO Mapping (Course Articulation Matrix)

| CO /PO | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 |
|---|------|------|------|------|------|
| CO1 | 3 | 3 | 3 | 2 | 3 |
| CO2 | 3 | 3 | 3 | 2 | 3 |
| CO3 | 3 | 3 | 3 | 2 | 3 |
| CO4 | 3 | 3 | 3 | 3 | 3 |
| CO5 | 3 | 3 | 3 | 3 | 3 |
| Weightage | 15 | 15 | 15 | 12 | 15 |
| Weighted percentage of Course Contribution to Pos | 3 | 3 | 3 | 2.4 | 3 |

Level of Correlation between PSO's and CO's

(Suggested by UGC as per Six Sigma Tool – Cause and Effect Matrix)

Assign the value

1 – Low 2 – Medium 3 – High 0 – No Correlation

INDUSTRIAL ECONOMICS
(23PECC35)

| | | | |
|-----------------------|-------------|------------------|-------------------|
| SEMESTER - III | CORE | HOURS – 4 | CREDIT - 3 |
|-----------------------|-------------|------------------|-------------------|

Course outcomes:

| Cos | Statement | Knowledge level |
|------------|--|------------------------|
| CO1 | Provide knowledge to students on the basic issues in the industrial development | K1 |
| CO2 | Analyse the economics of industry in cogent and analytical manner. | K3 |
| CO3 | Assess the industrial relations in the Indian context | K2 |
| CO4 | Understand the different measures for industrial development at the regional level | K5 |
| CO5 | Compare different laws for industrial labourers | K5 |
| CO6 | Compare and evaluate different social security measures. | K5, K6 |

K₁ – Remember, K₂ - Understand, K₃ – Apply, K₄ – Analyse, K₅ – Evaluate, K₆ – Create.

Unit – I: Theory of Firm **(12 Hours)**

Undifferentiated Products - Cournot, Stackelberg, Dominant firm model, Bertrand-Heterogeneous products - Chamberlin's small and large number case-Kinked demand curve theory - Bain's limit pricing - Sales and growth maximization hypothesis - Managerial theories of the firm - Game theoretical models.

Unit – II: Investment Decisions **(12 Hours)**

Conventional and modern methods - Risk and uncertainty - Sensitivity analysis - Financial statements and ratio analysis - Inflation accounting - Project appraisal methods - Industrial finance-Sources of finance - Capital structure - Incentive, signaling and control arguments - Separation of ownership and control.

Unit – III: Technical Change and Market Structure **(12 Hours)**

The Economics of patents - Adoption and diffusion of innovations - Innovations and rivalry : Kamien and Schwartz - Measures of concentration - Concentration ratio - Hirschman - Herfindahl index - Entropy measure - Structure conduct performance paradigm - Contestable markets - Fixed costs, Sunk costs and contestability - Stackelberg - Spence - Dixit model.

Unit – IV: Indian Industry **(12 Hours)**

Industrial growth in India: Trends and prospects - Public enterprises; efficiency, productivity and performance constrains - Small scale industries: definition, role, policy issues and performance - Capacity utilization - Industrial sickness and Exit policy - Concept of competitiveness - Nominal protection coefficients (NPC) and effective rate of protection (ERP) - Total factor productivity - Technology transfer.

Unit – V: Industrial Policy in India**(12 Hours)**

Industrial policy - privatisation and disinvestment debate - pricing reforms in PSUs - Problem of industrialisation- productivity in industrial sector - issues in labour market – reforms - approaches for employment generation- analysis of price behaviour in India.

Text Books:

1. Cherunilam F. Third Edition, Industrial Economics, Indian Perspective, Himalaya Publishing, Mumbai.
2. Desai.B. Industrial Economics in India 1999, Mumbai Publishing House.
3. Ahluwalia, I.J. 1985, Industrial Growth in India, Oxford University Press, New Delhi

Books for References:

1. Barthwal. R.R. 1985, Industrial Economics, Wiley Eastern Ltd. New Delhi.
2. Divine.P.J., and R.M.Jones, An Introduction to Industrial Economics, 1976, George Allen and Unwin Ltd, London.

Web Resources

<https://www.economicscourses.org/chartered-industrial-economist/>

<https://www.economicnetwork.ac.uk/teaching/Video%20and%20Audio%20Lectures/Industrial%20Economics>

WELFARE ECONOMICS
(23PECE31)

| | | | |
|-----------------------|--------------------------|------------------|--------------------|
| SEMESTER - III | ELECTIVE – VI (1) | HOURS – 6 | CREDITS - 5 |
|-----------------------|--------------------------|------------------|--------------------|

Course Outcomes (Cos):

| No. | Course Outcomes | K-Levels |
|------------|--|-----------------|
| CO1 | Summarize the Contribution to Welfare Economics | K1, K2 |
| CO2 | Analyse the different approaches to Welfare Economics | K3, K4, |
| CO3 | Interpret the development of Pareto Optimality Conditions | K1, K2, K3 |
| CO4 | Explain the compensation Criteria of Economics | K2, K5 |
| CO5 | Evaluate theories of Social Choice. | K2, K4, K5 |
| CO6 | To make students to develop and formulate resource allocation to maximise social welfare | K6 |

K₁ – Remember, K₂ - Understand, K₃ – Apply, K₄ – Analyse, K₅ – Evaluate, K₆ – Create.

Unit – I: Introduction to Welfare Economics (18 Hours)

Scope and Purpose of Welfare Economics - Positive or normative science - Assumption of Uniform Income - Utility Function of Individuals - Marginal Productivity Theory of Income Distribution - Elasticity of Factor Substitution - Technological Progress and Income Distribution - Benthamite Approach to Aggregate Welfare.

Unit – II: Optimum Resource Allocation and Welfare Maximization (18 Hours)

Pareto optimality - Optimum exchange conditions - production and consumption optimum - Concept of contract curve - Pareto optimality and perfect competition - First and Second Fundamental Theorems of Welfare Economics.

Unit – III: Fairness/Equity and Welfare Economics (18 Hours)

Economic Justice: Utilitarian Approach (Harsanyi) - Libertarian View (Nozick) - Rawlsian Theory of Justice - Amartya Sen’s Approach to Economic Justice - Bergson’s social welfare function - Welfare Criteria: Hicks and Kaldor - Scitovsky’s Paradox - Arrow’s Impossibility Theorem - Samuelson’s criterion.

Unit – IV: Efficiency and State Intervention (18 Hours)

Pigovian tax and subsidy; Divergence between private and social costs; Externalities of production and consumption; Problem of public goods; Role of the State; Second-best optima - Theory of Public Choice and its Policy implications - External Economies and Diseconomies -

Attempts to Develop Dynamic Welfare Analysis - Collective Choice and Social Welfare - Social Choice and Political Decision Making.

Unit – V: Approaches to Welfare Analysis (18 Hours)

Welfare and General Equilibrium - Pareto-Optimality and Market Equilibrium - Samuelson's Utility Possibility Curve - Value Judgments and Welfare Economics - Marginal Cost Pricing - Cost-Benefit Analysis - Welfare Analysis of Risky Projects - Value of Information and Irreversible Consequences - Welfare Theory and International Trade.

Text Books

1. Verma K.N (2012) Microeconomic Theory, Vishal Publishing House
2. Per-Olov Johansson (2009) An introduction to Modern Welfare Economics, Cambridge University Press.

References

1. Arrow, Kenneth J (1963) Social Choice and Individual Values, Cowles Foundation Monograph 12, 2nd ed. Yale University
2. Bossert, Walter and Kotaro Suzumura (2010) Consistency, Choice and Rationality, Harvard University Press: Cambridge MA
3. Broadway, R.W. and N. Bruce (1984), Welfare Economics, Basil Blackwell, Oxford.

Web Resources

1. <https://conceptually.org/concepts/pareto-principle>
2. https://web.stanford.edu/~jdlevin/Econ_202/General_Equilibrium.pdf
3. <https://policonomics.com/lp-welfare-economics1-general-equilib...>

CO-PO Mapping (Course Articulation Matrix)

| CO /PO | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 |
|--|------|------|------|------|------|
| CO1 | 3 | 3 | 2 | 3 | 3 |
| CO2 | 2 | 3 | 2 | 3 | 2 |
| CO3 | 3 | 3 | 2 | 3 | 2 |
| CO4 | 2 | 3 | 2 | 3 | 2 |
| CO5 | 2 | 3 | 2 | 3 | 3 |
| Weightage | 12 | 15 | | | |
| Weighted percentage of Course Contribution to Pos | 2.4 | 3 | 2 | 3 | 2.4 |

Level of Correlation between PSO's and CO's

(Suggested by UGC as per Six Sigma Tool – Cause and Effect Matrix)

Assign the value

1 – Low 2 – Medium 3 – High 0 – No Correlation

URBAN ECONOMICS
(23PECE31)

| | | | |
|-----------------------|--------------------------|------------------|--------------------|
| SEMESTER - III | ELECTIVE – VI (2) | HOURS – 6 | CREDITS - 5 |
|-----------------------|--------------------------|------------------|--------------------|

Course Outcomes (Cos):

| No. | Course Outcomes | K-Levels |
|------------|---|------------|
| CO1 | understand scope of urban economics and urban economic growth | K1, K2, K3 |
| CO2 | Describe the process of urbanisation and classification of urban areas | K3, K5 |
| CO3 | Evaluate the various theories of urban growth and spatial structure | K2, K4 |
| CO4 | Explain the urban Labour Market, Labour Force Participation and Distribution of Workers | K1, K2 |
| CO5 | Familiarize the urban problems and planning process. | K1, K4, K5 |
| CO6 | To analyse and evaluate urban related public policies | K4, K5 |

K₁ – Remember, K₂ - Understand, K₃ – Apply, K₄ – Analyse, K₅ – Evaluate, K₆ – Create.

Unit - I: Introduction (18 Hours)

Definition and Scope of Urban Economics - Sources of Urban Growth –International migration, Trends in growth of urban population in the world - Urban reclassification and physical expansion of urban boundaries –Urbanization and agglomeration economies – industrialization and services sector growth –Urbanization and urban economic growth – Urbanization and globalization.

Unit - II: Economics of Urbanization (18 Hours)

The Process of urbanization: Nature and dimensions, factors initiating and perpetuating urbanization process - Characteristics of an economy passing through different stages of urbanization - Classification of urban areas by demographic, geographical and economic criteria- Process of sub-urbanization

Unit - III: Theories of Urban Growth and spatial structure (18 Hours)

Christaller’s Central Place Theory - The Human Ecological Approach to Urban Growth - Urban Size: Ratchet-Rank Size Rule - Migration and urban economic growth: Harris-Todaro Model – Concepts of City Structure - The Minimization of Costs of Friction Hypothesis -Location Equilibrium of an Urban Firm - The Concentric Zone Hypothesis - Urban Residential Land Use Models: Alonso, Muth, Siegel, Park Burgess.

Unit - IV: Urbanization and Labour Market (18 Hours)

Urbanisation and Labour Market - Pull and Push Factors for Urbanisation in India - High Wages and Improved Infrastructure - Employment Opportunities and Educational facilities - Growth of formal and Informal economic activities - Labour Force Participation and Distribution of Workers.

Unit - V: Urban Problems and Urban Planning

(18 Hours)

Over Population and congestion - Urban housing problem - Urban environment: Air, Water and Noise Pollution - Urban poverty and inequality - Urban Infrastructure: transport Water Supply, Sanitation and Solid waste management - Need for Urban Planning: Objectives and Techniques - Emerging Planning Process - Comprehensive Development Plan – Master Plan – Jawaharlal Nehru National Urban Renewal Mission - Smart Cities

Text books

1. Shukla, V. (1996) Urbanization and Economic Growth, Himalaya Publishers Pvt. Ltd (New Delhi).
2. Robert L Bish and Hugh O Nourse (1975), Urban Economics and Policy Analysis, McGraw Hill Kogakusha Ltd (Tokyo).

References

1. O' Sullivan (2012), Urban Economics, McGraw Hill Higher Education (Boston).
2. Edwin S. Mills. (1987). Handbook on Regional and Urban Economics, Volume 2: Urban Economics. North-Holland (Amsterdam).
3. Duranton, G., & Strange, W. C. (1986). *Handbook of regional and urban economics: applied urban economics* (Vol. 3). Elsevier.

Web resources

1. <https://link.springer.com> › bfm:978-1-349-15661-0 › 1.pdf
2. <https://www.academia.edu> › Urban_economics_Arthur_O..
3. <https://www.ysk-books.com> › show › book › regional-a..

CO-PO Mapping (Course Articulation Matrix)

| CO /PO | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | PSO6 |
|---|------|------|------|------|------|------|
| CO1 | 2 | 3 | 3 | 3 | 2 | 3 |
| CO2 | 3 | 3 | 3 | 3 | 2 | 3 |
| CO3 | 3 | 2 | 3 | 2 | 2 | 3 |
| CO4 | 3 | 2 | 2 | 2 | 3 | 3 |
| CO5 | 3 | 2 | 2 | 2 | 3 | 3 |
| Weightage | 14 | 12 | 13 | 14 | 12 | 15 |
| Weighted percentage of Course Contribution to Pos | 2.8 | 2.4 | 2.6 | 2.8 | 2.4 | 3 |

Level of Correlation between PSO's and CO's

(Suggested by UGC as per Six Sigma Tool – Cause and Effect Matrix)

Assign the value

1 – Low 2 – Medium 3 – High 0 – No Correlation

Internship
(23PECI31)

| | | | |
|----------------------|-------------------|------------------|--------------------|
| SEMESTER - IV | INTERNSHIP | HOURS – 0 | CREDITS - 2 |
|----------------------|-------------------|------------------|--------------------|

- All UG students will undergo internship during the summer holidays of the second year after completing IV semester.
- Two credits will be given for internship.
- Minimum Days: 21
- Minimum working time per day: 3 Hrs. & Maximum working Time: 5 Hrs.
- The places of internship can be government offices, Panchayats, MP, MLA offices, private institutions, companies, production units etc.
- The HoD of the departments will give a letter of introduction to each student.
- The students will identify the company / institution for internship.
- The students will be divided equally based on the number of professors available in the departments. Each professor will serve as a guide to the assigned students.
- The students will finalize the institutions / companies for the internship in consultation with the guides.
- The students shall maintain a work diary which will be countersigned by the managers / authorities of the company in which the students do the internship on daily basis.
- The work diary, Work completion certificate obtained from the company and a comprehensive report on the learning outcomes will be submitted to the guides at the end of the internship.
- Viva will be conducted based on the experience of the internship in the month of August. The guide will be the internal examiner and another faculty from the same department will serve as the external examiner.

SEMESTER – IV
INDIAN ECONOMIC DEVELOPMENT AND POLICY
(23PECC41)

| | | | |
|----------------------|-------------|------------------|--------------------|
| SEMESTER - IV | CORE | HOURS – 6 | CREDITS - 4 |
|----------------------|-------------|------------------|--------------------|

Course Outcomes (Cos):

| No. | Course Outcomes | K-Levels |
|------------|--|-----------------------|
| CO1 | Understand the Structural change in Indian economy | K1, K2, K3, K4 |
| CO2 | Assess the Performance of agricultural and Industrial sector | K1, K2, K3, K4 |
| CO3 | Ability to learn issues and measurement of poverty | K1, K2, K3, K4, K5 |
| CO4 | Understand the Impact of Poverty | K1, K2, K3, K4 |
| CO5 | Identify Social Issues related to financial sector | K1, K2, K3, K4 |
| CO6 | Evaluate current economic status of Tamil Nadu | K4, K5 |

K₁ – Remember, K₂ - Understand, K₃ – Apply, K₄ – Analyse, K₅ – Evaluate, K₆ – Create.

Unit - I: Growth Performance (18 Hours)

India's Growth strategy since Independence – role of Planning Commission and NITI Aayog in Economic growth - Market oriented approach since 1991 – factors underlying turnaround- Structural change in Indian economy – views of Economic Growth and Development in India – Human Development Index in Indian context.

Unit - II: Agricultural and Industrial Sector (18 Hours)

Agricultural Sector: Performance of agricultural sector, factors determining agricultural growth - Factors underlying food inflation- Agricultural price policy and food security – second green revolution – Industrial growth: before and after reforms - Dualism in Indian manufacturing sector - Issues in performance of public enterprises and privatization.

Unit – III: Poverty and Inequality (18 Hours)

Poverty and Inequality - Measuring poverty in India: Selection of poverty line - Poverty in pre and post liberalization periods - Impact of growth on poverty – Public Distribution System: targeted vs universalisation – direct cash transfers, feasibility of universal basic income in India – Land Inequality in India: pre and post land reforms.

Unit – IV: Economic Reforms (18 Hours)

Background of economic reforms – Washington Consensus – Industrial policy reforms – Trade policy reforms – Fiscal policy reforms – Financial sector reforms – Foreign investment policy reforms – Second generation economic reforms – An appraisal of India's economic reforms.

Unit – V: Tamil Nadu Economy**(18 Hours)**

Performance of agriculture, industrial and social sector (Health and education) in Tamil Nadu - Migration of casual workers to Tamil Nadu – Decentralization – Achievements of decentralization – Poverty and unemployment in Tamil Nadu – Tamil Nadu Budgets: Last two.

Text Books:

1. Sundaram K.P.M., (2002), Indian Economy, 42 revised Edition., S. Chand Publications.
2. Misra, S. & Puri, V., (2020.), Indian Economy, Revised Edition., S. Chand Publications.

Reference Books:

1. Kaushik Basu (Ed.) (2012), Oxford Companion to Indian Economy, 3rd Edition, OUP, New Delhi.
2. Uma Kapila (Ed.) (2018), Indian Economy since Independence, Academic Foundation, New Delhi, 29th Edition.
3. Ashima Goyal (Ed.) The Oxford Handbook of the Indian Economy in the 21st Century: Understanding the Inherent Dynamism, Oxford University Press.

Web References:

1. <https://www.adb.org/countries/india/economy>
2. <https://www.oecd.org/economy/india-economic-snapshot/>
3. <https://www.indiabudget.gov.in/economicssurvey/>

CO-PO Mapping (Course Articulation Matrix)

| CO /PO | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 |
|---|------|------|------|------|------|
| CO1 | 3 | 3 | 3 | 3 | 3 |
| CO2 | 3 | 3 | 3 | 3 | 3 |
| CO3 | 3 | 3 | 3 | 3 | 3 |
| CO4 | 3 | 3 | 3 | 2 | 3 |
| CO5 | 3 | 3 | 3 | 2 | 3 |
| Weightage | 15 | 15 | 15 | 13 | 15 |
| Weighted percentage of Course Contribution to Pos | 3 | 3 | 3 | 3 | 2.6 |

Level of Correlation between PSO's and CO's

(Suggested by UGC as per Six Sigma Tool – Cause and Effect Matrix)

Assign the value

1 – Low 2 – Medium 3 – High 0 – No Correlation

LABOUR ECONOMICS
(23PECC42)

| | | | |
|----------------------|-------------|------------------|------------------|
| SEMESTER - IV | CORE | HOURS – 6 | CREDIT: 4 |
|----------------------|-------------|------------------|------------------|

Course outcomes:

On completion of this paper, the students will be able to:

| COs | Statement | K- level |
|------------|--|-----------|
| CO1 | Evaluate the labour efficiency and distinguish labour market from commodity market. | K5 |
| CO2 | Interpret the theoretical issues in labour economics | K2 |
| CO3 | Measure the labour productivity, unemployment and migration as an investment in human capital. | K5 |
| CO4 | Discuss social security measures in India and in Tamilnadu. | K2 |
| CO5 | Determine the importance of trade union and collective bargaining. | K3 |
| CO6 | Evaluate the current status of child labour in India | K5 |

K₁ – Remember, K₂ - Understand, K₃ – Apply, K₄ – Analyse, K₅ – Evaluate, K₆ – Create.

UNIT: I Labour, Labour Market and Labour Efficiency (18 Hours)

Labour: Concept, Nature and Characteristics – Labour Market; Differences between Labour Market and Commodity Market. Labour Market Imperfections: Classical, Neo-Classical and Modern Approaches to Labour Market. Analysis of Demand and Supply Forces: Demand for Labour Relating to Choose of Technology, Supply of Labour in Relation to Growth of Labour Force - Globalization and Labour Market.

Unit – II: Theoretical Issues in Labour Economics (18 Hours)

Changing Dynamics of Labour Economics - Labour supply: Measuring the labour force, Workers preferences, Time and budget constraints, Hours of work decision; Labour demand: Production function, Long run demand for labour; Labour market equilibrium: Equilibrium in a single competitive labour market

Unit: III Labour Productivity, Unemployment and Migration (18 Hours)

Labour productivity -- Concept and measurement - measures to improve productivity. Unemployment: Meaning and types - Demand-Deficient unemployment, reducing unemployment – Public policies for Labour Migration - Migration as an investment in human capital, Determinants of migration, causes and Consequences of migration – push and pull effect of migration.

Unit: IV State and Labour (18 Hours)

Concept of Social Security and its evolution; Social assistance and Social insurance; Review and appraisal of state policies with respect to social security and labour welfare in India; Special Problems of labour, Discrimination and gender bias in treatment of labour; Receding state and its effects on working of labour markets; Globalisation and Labour markets.

Unit V: Wage Discrimination

(18 Hours)

Classical, Neo Classical and bargaining theories of wage determination; Minimum wage, Fair wage in theory and practice; Discrimination in Labor markets, Wage determination - Rural, urban, organized and unorganized sectors - Inflation - Wage relationships; Analysis of rigidity in labour markets - Efficiency of Labor markets in wage determination - National Wage Policy.

Text Books:

1. Verma, Pramod., 1988, Labour Economics and Industrial Relations: Tata McGraw Hill Publishing Co. Ltd. New Delhi.
2. Gupta R.K, 2015, Labour Economics, Vrinda Publications Pvt. Ltd., New Delhi
3. Dhanya M B 2013, Fundamental Principles and Rights at Work and Informal Economy in India: Trends, Initiatives and Challenges, Publisher: V V Giri National Labour Institute
4. Bhagoliwal T.N 1995, Economics of Labour and Industrial Relations, Sahitya Bhawan Publications, New Delhi.
5. Tyagi, B.P. (2009), Economics of Labour & Social Welfare, Sage Publication, New Delhi

Books For Reference:

1. Jetli N K (2004), India: Economic Reforms and labour Policy, New century publications, new Delhi, India
2. Punekar S D (1978), Labour Welfare, Trade Unionism and Industrial Relations, Himalaya publications
3. DttG, (1996), Bargaining power wages and Employment: An Analysis of Agricultural Labour Market, Indu publication, New Delhi
4. Lester. R.A. (1 964), Economics of Labour (2nd Edition), Macmillian, New York.
5. Hicks J R (1932), The Theory of Wages, Oxford 6. Ramaswamy, K.V. (Ed.) (2015), Labour, employment and Economic Growth in India, Cambridge University Press, Delhi

Online sources:

https://www.economicsonline.co.uk/Competitive_markets/The_labour_market.html
<https://opentextbc.ca/principlesofeconomics2eopenstax/chapter/the-theory-of-labor-markets/>
<https://www.oecd.org/els/42365109.pdf>
<https://www.yourarticlelibrary.com/essay/social-security-measures-in-india-an-overview>
<https://www.oecdilibrary.org/sites/068bb29den/index.html?itemId=/content/component/068bb29d-en>

**ECONOMETRIC METHODS
(23PECC43)**

| | | | |
|----------------------|-------------|------------------|--------------------|
| SEMESTER - IV | CORE | HOURS – 6 | CREDITS - 4 |
|----------------------|-------------|------------------|--------------------|

COURSE OUTCOMES:

| No. | Course Outcomes | K-Levels |
|------------|---|------------|
| CO1 | Examine the meaning and applicability of dummy variables | K1, K2, K4 |
| CO2 | Estimate the Auto Regressive model and the role of lags in dynamic econometric models | K4, K5 |
| CO3 | Identify the problems of ignoring OLS assumptions | K3, K4 |
| CO4 | Gain in-depth knowledge in Simultaneous equation models | K2, K4 |
| CO5 | Analyze the stochastic process and co-integration model | K3, K5 |
| CO6 | To build and create new econometric model and tools | K5, K6 |

K₁ – Remember, K₂ - Understand, K₃ – Apply, K₄ – Analyse, K₅ – Evaluate, K₆ – Create.

Unit – I: Introduction to Econometrics (18 Hours)

Econometrics: Meaning, Nature, Scope, Tools and types of econometrics – Uses of econometrics - methodology of econometrics - Mathematical – Statistical and Econometric Model — Population and sample regression function - Significance of stochastic error term – Limitations of econometrics.

Unit – II: Simple Linear Regression Model (18 Hours)

SLRM: Meaning and concept - Method of ordinary least squares - Assumptions of OLS - Properties of OLS estimators - Gauss Markov theorem - regression co-efficient - co-efficient of determination (R^2) - Normality assumption – Interpretation of SLRM: use of t and F tests in Hypothesis testing.

Module – III: Multiple Regression Analysis (18 Hours)

MLRM: meaning and concept – MLRM with three variables – estimate partial regression coefficients – Assumptions of MLRM - Multiple co-efficient of determination - degrees of freedom - overall significance of the regression: F-test - Violation of OLS assumptions: Multicollinearity, Heteroscedasticity, Auto-correlation: Meaning, sources, consequences and Deductive.

Unit - IV: Dynamic & Qualitative Regression Model (18 Hours)

Dynamic models: Pure and Mixed Dynamic models - Estimation of distribute lag models: Adhoc, Koyck and Almon’s Approach - ANOVA & ANCOVA Models: features and advantages – Dummy variable - Qualitative Regression Model: Logistic regression.

Unit - V: Time Series Econometrics (18 Hours)

Introduction to Time Series Econometrics: Stochastic Process: Stationary and Non Stationary stochastic process – Trend stationary and difference stationary stochastic process – Properties of stochastic – Unit root: meaning and two types of unit root tests: DF and ADF tests.

Text Books:

1. A Koutsoyiannis (1997) Theory of Econometrics, Second Edition, Macmillan Press, London.
2. Wooldridge (2013) Introductory Econometrics: A Modern Approach, Fifth Edition Jeffrey M. Wooldridge, South-Western 5191 Natorp Boulevard Mason.
3. Damodar N. Gujarati & Sangeetha (2019) Basic Econometrics Tata McGraw-Hill Publishing company Limited, New Delhi.

References:

1. Gujarathi, D.N. (2005) Text Book of Econometrics [McGraw-Hill, New Delhi].
2. Kalirajan, K.P. (1995) Applied Econometrics [Oxford and IBH, New Delhi].
3. Suresh, J. Ghosh (1994), Econometric Theory and Applications [Prentice Hall of India, New Delhi],

Web Resources:

1. <https://learneconometricsfast.com>.
2. <https://inomics.com>.
3. <https://economicsnetwork.ac.uk>

CO-PO Mapping (Course Articulation Matrix)

| CO/PSO | PSO 1 | PSO2 | PSO3 | PSO4 | PSO5 |
|--|-------|------|------|------|------|
| CO1 | 3 | 3 | 3 | 3 | 2 |
| CO2 | 3 | 2 | 3 | 3 | 3 |
| CO3 | 3 | 3 | 3 | 3 | 3 |
| CO4 | 3 | 2 | 3 | 3 | 3 |
| CO5 | 3 | 3 | 3 | 2 | 3 |
| AVERAGE | 15 | 13 | 15 | 14 | 14 |
| Weighted percentage of Course Contribution to Pos | 3.0 | 2.6 | 3.0 | 2.8 | 2.8 |

Level of Correlation between PSO's and CO's

(Suggested by UGC as per Six Sigma Tool – Cause and Effect Matrix)

Assign the value

1 – Low 2 – Medium 3 – High 0 – No Correlation

PROJECT & Viva-Voce
23PECC44

| | | | |
|---------------------|-------------|------------------|-------------------|
| SEMESTER- IV | Core | HOURS – 4 | CREDITS: 4 |
|---------------------|-------------|------------------|-------------------|

Course Outcomes:

| S.No. | Statement | K Level |
|------------|--|-----------|
| CO1 | Identifying the research gap from the bottom level of society | K1 |
| CO2 | Discuss the Social and Economic issues at the local level in the field | K2 |
| CO3 | Examine the different Economic hypotheses that they have learnt in the classroom | K3 |
| CO4 | Describe the fact they learnt from the field in the form of Economic theories | K2 |
| CO5 | Analyse the complex social relations | K4 |

K₁ – Remember, K₂ - Understand, K₃ – Apply, K₄ – Analyse, K₅ – Evaluate, K₆ – Create.

General Guidelines for Project work

Project work is an integral part of academic curriculum of the Department. It is an initiative to bridge the gap between knowledge and application through a series of interventions that will enable students to gain insights and exposure. The project work serves the twin purposes of providing critical economic and business insights to students and providing industry with graduates of a high calibre who are ready to get ahead in the world from day one.

Objectives:

- To provide an opportunity for students to apply theoretical concepts in real life situations;
- To enable students to manage resources, work under deadlines, identify and carry out specific goal oriented tasks

Tentative Framework:

1. Selection of a Topic
2. Chapter -1: Conceptual Framework
3. Chapter – 2: Review of Literature and Methodology
 - Research Gap
 - Significance of the Study
 - Formulation of Research Questions /Issues
 - Research objectives
 - Data source (Primary/Secondary)
 - Coverage (Universe/ Sample & period of study)
 - Tools of analysis (Analytical Framework)
 - Relevance of the study

- Limitations of the study
 - Chapter outlines
4. Chapter -3: Secondary data based
 5. Chapter -4: Data analysis and Interpretation
 6. Chapter -5: Conclusion
 7. Bibliography
 8. Appendices

Structure of the Report

A. Title Page/ Cover Page

- a. Title page
- b. Title of the project
- c. Name of the candidate/candidate code
- d. Degree for which project is submitted.
- e. Name of the college
- f. Month and year the project is presented

B. Declaration of the student

C. Certificate of the supervising teacher

D. Acknowledgments

E. Table of contents

- a. List of Tables
- b. List of Figures
- c. Glossary
- d. List of abbreviations

F. Chapter Outlines (Chapter Titles and Page Numbers)

G. Abstract/ Executive Summary (One page)

H. The Main Text

- a. Introductory Chapter: Items 3 to 15 mentioned above
- b. Other Chapters - Analysis, Results Interpretation
- c. Conclusion Chapter: Conclusions, Recommendations & Summary

I. End Notes (after each Chapter)

J. Bibliography (at the end of the thesis)

K. Appendices

- a. Questionnaire
- b. Interview Schedule

- c. Observation Schedule (optional)
- d. Coding Frame (optional)
- e. Letters sent to sample members (optional) 68
- f. Any Other

Length of the Project

1. Report length 40 to 60 pages excluding App2.
2. Alignment: Justify
3. Font: Times New roman
4. Font size: 12
5. Line spacing: 1.5

**ECONOMICS OF SOCIAL ISSUES
(23PECE41)**

| | | | |
|----------------------|---------------------------|------------------|--------------------|
| SEMESTER - IV | ELECTIVE – VII (1) | HOURS – 4 | CREDITS - 3 |
|----------------------|---------------------------|------------------|--------------------|

Course Outcomes (Cos):

| S.No. | Course Outcomes | K-Levels |
|------------|--|----------|
| CO1 | To define social economics and illustrate the role of the government in creating equality in human societies. | K1, K2 |
| CO2 | To explain and elaborate the concept of welfare economics with specific reference to healthcare. | K2, K6 |
| CO3 | To illustrate and discuss the importance of education in creating human capital; private and social demand for education. | K2, K6 |
| CO4 | To recall, classify and compare the various sources of social discrimination, causes and consequences of the same. | K1, K2 |
| CO5 | To examine, estimate and illustrate the several components of human development index and the importance of these indices on development of the social sector. | K4, K6 |
| CO6 | To judge, assess and derive implication of social related acts and programme | K5, K6 |

K₁ – Remember, K₂ - Understand, K₃ – Apply, K₄ – Analyse, K₅ – Evaluate, K₆ – Create.

Unit - I: Introduction – Social Economics (12 Hours)

Introduction of Social Economics: Definition – Equality in Human Societies – Role of government – Social security – Subsidies – Social banking – Refugees, Slavery and Beggary. - Principles of Social Doctrines: Marx, Pope and Gandhi.

Unit - II: Economics of Health (12 Hours)

Concept of Welfare Economics – Health dimensions – Determinants of Health - Demand and Supply of Health care – Financing of healthcare - Concept of human life value – Inequalities in health – Healthcare constraints.

Unit - III: Economics of Education (12 Hours)

Education as an instrument of economic growth – Concept of human capital – components of human capital – Private and Social demand for education – Educational planning and economic growth – Manpower requirements approach – Human resource mobilization and utilization.

Unit - IV: Social Discrimination (12 Hours)

Sources of Social Discrimination – Class, Caste, Religion, Race and language – Monopoly power - Consumerism – Provision of information – Economic crimes and their prevention – Violation of Human Rights – Terrorism: Causes and consequences – Need to control terrorism.

Unit - V: Human Development Index**(12 Hours)**

Indicators – Life expectancy, Per Capita income and Education - Index – HDI Reports, UNDP - Dimensions - Poverty – Inequality – Gender.

Text Books

1. Seeta Prabhu, K. (2012) Economic Reform and Social Sector Development, Sage Publications, New Delhi.
2. Dreze and Sen, (1999) Hunger and Public Action, Clarendon Press, London.1999

Reference Books

1. Baumol, W J, & Oates, W E, (200) Theory of Economical Policy, Cambridge University Press.
2. Culyer, A.J., The Economics of Social Policy, Martin Robertson and Co. Ltd., London. 1993.
3. Douglass C. North and Roger Leroy Miller, The Economics of Public Issues, Harper & Row Press, New York. 2001.

Web Resources

1. <https://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=&cad=rja&uact=8&ved=2ahUKEwjI4KeSh>
2. <https://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=&cad=rja&uact=8&ved=2ahUKEwjI4KeSh->
3. <https://link.springer.com/content/pdf/bfm:978-1-349-15632-0/1.pdf>

CO-PO Mapping (Course Articulation Matrix)

| CO /PO | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | PSO6 |
|---|------|------|------|------|------|------|
| CO1 | 3 | 3 | 3 | 3 | 3 | 3 |
| CO2 | 3 | 3 | 3 | 3 | 3 | 3 |
| CO3 | 3 | 3 | 3 | 3 | 3 | 3 |
| CO4 | 3 | 3 | 3 | 3 | 3 | 2 |
| CO5 | 3 | 3 | 3 | 3 | 3 | 3 |
| Weightage | 15 | 15 | 15 | 15 | 15 | 15 |
| Weighted percentage of Course Contribution to Pos | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |

Level of Correlation between PSO's and CO's

(Suggested by UGC as per Six Sigma Tool – Cause and Effect Matrix)

Assign the value

1 – Low 2 – Medium 3 – High 0 – No Correlation

**HUMAN RESOURCES DEVELOPMENT
(23PECE41)**

| | | | |
|----------------------|---------------------------|------------------|--------------------|
| SEMESTER - IV | ELECTIVE – VII (2) | HOURS – 4 | CREDITS - 3 |
|----------------------|---------------------------|------------------|--------------------|

Course Outcomes (Cos):

| S.No. | Course Outcomes | K-Levels |
|------------|---|------------|
| CO1 | To understand the outline of HRM and concepts therein. | K1, K2, K4 |
| CO2 | To know the approaches in acquiring the human talents. | K2, K4, K5 |
| CO3 | To analyze the trends in training and developing the manpower acquired. | K1, K3, K4 |
| CO4 | To identify the methods to improve the performance. | K1, K2, K4 |
| CO5 | To gain insight to motivate and retain the employees. | K3, K2, K5 |
| CO6 | To analyse and recommend proper policies to improve human resource | K5, K6 |

K₁ – Remember, K₂ - Understand, K₃ – Apply, K₄ – Analyse, K₅ – Evaluate, K₆ – Create.

Unit - I: Introduction

(12 Hours)

Evolution of HRM - Objectives and Function of HRM - Role and Responsibilities of HR Manager - Relevance of HRM - Systems approach to HRM.

Unit - II: Recruitment and Selection

(12 Hours)

Human Resource Planning: Purpose and Process - Recruitment and Selection: Source of Recruitment, Stages in Selection Process - Placement, Goals Analysis: Job Description and Job Specification.

Unit - III: Training and Development

(12 Hours)

Training and Development: Training Needs, Training Methods, Application of Computers in Training, Developing Effective Training Programmes - Concept of HRD - Management Development Programmes.

Unit - IV: Performance Appraisal

(12 Hours)

Concept and Objectives of Performance Appraisal - Process of Performance Appraisal - Criteria for Performance Appraisal - Benefits of Performance Appraisal - Limitation and Constraints - 360 Degree Performance Appraisal.

Unit - V: Compensation Management

(12 Hours)

Compensation Management, Major Elements of Compensation Management - Incentives: Concepts, Types of Incentives; Incentives schemes in Indian Industries; Fringe Benefits - Discipline and Employees' Grievance Redressal - Emerging Trends in HRM.

Text Books:

1. Dessler, Gray, and Varkkey, (2009) Human Resource Management, 11ed., Pearson Education, New Delhi.
2. Aswathappa K. (2017), Human Resource Management: Text & Cases ,8th Edition, Tata McGraw-Hill Education

Reference Books

1. Rao, V.S.P (2010), Human Resource Management-Text &Cases, Excel Books, New Delhi.
2. David S. Decenzo and Stephen P. Robbins (2006), Personnel & Human Resource Management, 3edition, Prentice-Hall of India, New Delhi.
3. Dwivedi, R.S. (200) A Textbook of Human Resource Management, Vikas Publications, New Delhi.

Web Resources:

1. <https://www.whatishumanresource.com/human-resource-development>
2. https://onlinecourses.nptel.ac.in/noc20_hs48/preview
3. <https://www.chrmp.com/webinar-lists/>

CO-PO Mapping (Course Articulation Matrix)

| CO /PO | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | PSO6 |
|--|------|------|------|------|------|------|
| CO1 | 3 | 3 | 3 | 2 | 3 | 3 |
| CO2 | 3 | 3 | 3 | 2 | 3 | 3 |
| CO3 | 3 | 3 | 3 | 2 | 3 | 3 |
| CO4 | 2 | 3 | 2 | 3 | 3 | 3 |
| CO5 | 2 | 3 | 2 | 3 | 2 | 3 |
| Weightage | 13 | 15 | 13 | 12 | 14 | 15 |
| Weighted percentage of Course Contribution to Pos | 2.6 | 3.0 | 2.6 | 2.4 | 2.8 | 3.0 |

Level of Correlation between PSO's and CO's

(Suggested by UGC as per Six Sigma Tool – Cause and Effect Matrix)

Assign the value

1 – Low 2 – Medium 3 – High 0 – No Correlation

**ACADEMIC WRITING SKILLS FOR ECONOMISTS
(23PECS41)**

| | | | |
|----------------------|------------|------------------|--------------------|
| SEMESTER - IV | SEC | HOURS – 4 | CREDITS - 3 |
|----------------------|------------|------------------|--------------------|

Course Outcomes (Cos):

| S.No. | Course Outcomes | K-Levels |
|------------|---|------------|
| CO1 | Develop the purpose, goal of writing and speech, and an approach of persuading the audience. | K1, K2 |
| CO2 | Order and structure the material and the flow of information to support argument in speech and writing. | K2, K3 |
| CO3 | Create a report outline to link sections to support the persuasive message. | K2, K3, K5 |
| CO4 | Present experimental data using the principles of statistical analysis. | K2, K6 |
| CO5 | Edit technical documents by efficiently structuring the data and avoiding common infelicities of style. | K5, K6 |
| CO6 | To develop writings to defend and argue their ideas in academics | K5, K6 |

K₁ – Remember, K₂ - Understand, K₃ – Apply, K₄ – Analyse, K₅ – Evaluate, K₆ – Create

Unit – I: An empirical and Theoretical framework (12 Hours)

The general structure of an empirical academic text - Arousing the readers’ interest - Structural markers in the body text - Discussion and conclusion - The abstract - Purpose of the theoretical framework -Relevant information -Sub-questions - Formulating hypotheses - Efficient writing - Preparation - Writing – Revising.

Unit – II: Citing, paraphrasing and quoting (12 Hours)

Introduction - Citing - The bibliography - Books - Edited books -Articles in journals - Publications on the Internet - Arranging the bibliography - Citing within the text - Multiple authors - Multiple works -Citing a publication from another source - The citation point - Paraphrasing and quoting - Paraphrasing - How do you quote? - When should you quote?.

Unit – III: Argumentation (12 Hours)

Introduction - Preparatory reflection on behalf of your report - Forms of argumentation - Four forms of argumentation - Argumentation designs - Signal words - Reasoning errors: fallacies - Citations and paraphrases - Adding citations – Paraphrasing.

Unit – IV: Cohesion and sentence structure (12 Hours)

Introduction - Cohesion in a text - Unambiguous use of reference words - Distance between reference word and antecedent - Explicit and implicit links in a text - Using synonyms correctly -Inadvisable sentence structures - Long and short sentences - Nominal constructions - Passive form - Roundabout phrasing and ‘fillers’.

Unit – V: Academic style of writing (12 Hours)

Introduction - Writing style and use of language in academic writing -Colloquial speech versus written language - Varied word use – I and we - Gender-neutral language - Verb tenses and a clear use of academic language - Verb tenses -Clear use of academic language.

Text Books:

1. Powell, M. (2011). Dynamic presentations. Student's book with audio CDs. Germany: Cambridge University Press.
2. Allison, J., Powell, M. (2014). In Company 3.0: Upper Intermediate. Germany: Macmillan.

References:

1. Mort, S. (2017). Professional Report Writing. United Kingdom: Taylor and Francis. (drawn from the list prescribed by AICTE)
2. Sharma, S., Raman, M. (2015). Technical Communication: Principles and Practice. India: Oxford University Press.
3. Effective Communication Skills. (2016). India: KHANNA Publishers.

Web Resources:

1. <https://owl.excelsior.edu/esl-wow/>
2. <https://owl.purdue.edu/>
3. <https://boisestate.pressbooks.pub/anintroductiontotechnicalcommunication/front-matter/introduction/>
4. [https://www.boomhogeronderwijs.nl/media/16/9789058758095_karreman_werner_e.a._academic_writing_skills_for_economics_and_business_administration_inkijkexemplaar\(2\).pdf](https://www.boomhogeronderwijs.nl/media/16/9789058758095_karreman_werner_e.a._academic_writing_skills_for_economics_and_business_administration_inkijkexemplaar(2).pdf)

CO-PO Mapping (Course Articulation Matrix)

| CO /PO | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 |
|--|------|------|------|------|------|
| CO1 | 3 | 3 | 3 | 3 | 3 |
| CO2 | 3 | 3 | 3 | 3 | 3 |
| CO3 | 3 | 3 | 3 | 3 | 3 |
| CO4 | 3 | 3 | 3 | 3 | 3 |
| CO5 | 3 | 3 | 3 | 3 | 3 |
| Weightage | 15 | 15 | 15 | 15 | 15 |
| Weighted percentage of Course Contribution to Pos | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |

Level of Correlation between PSO's and CO's

(Suggested by UGC as per Six Sigma Tool – Cause and Effect Matrix)

Assign the value

1 – Low 2 – Medium 3 – High 0 – No Correlation

**EXTRA CREDIT COURSE
ECONOMICS OF TOURISM MANAGEMENT**

(23PECEC1)

Course outcomes:

| COS | Statement | K – Level |
|------------|--|------------------|
| CO1 | Define the view of fundamentals of tourism. | K1 |
| CO2 | Assess the aptitude towards tourism research | K5 |
| CO3 | Choose the various career opportunities available to them in the tourism field | K5 |
| CO4 | Demonstrate to be tourist guides to internal as well as international tourists | K3 |
| CO5 | Build the brotherhood | K6 |
| CO6 | Evaluate economic benefits of tourism | |

K₁ – Remember, K₂ - Understand, K₃ – Apply, K₄ – Analyse, K₅ – Evaluate, K₆ – Create

UNIT I: INTRODUCTION

Characteristics of tourism - factors influencing tourism - Elements of tourism - Basic components of tourism - types and classification of tourism - evils of tourism.

UNIT II: IMPORTANCE OF TOURISM IN MODERN TIMES:

Social, cultural and economic importance of tourism - growth of tourism - passport, VISA, Health regulation - customs regulation - foreign exchange and other formalities.

UNIT III: ORGANISATION O TOURISM:

National committee on tourism - National action plan and policies for civil aviation - tourism setup in India - activities of department of tourism – ITDC – WTO – IATA – ICCA - ICPB.

UNIT IV: TOUR MARKETING, PROMOTION AND ACCOMODATION:

Definition-features-marketing process-managing and marketing of tour packages-marketing research product formation and distribution-advertising agencies-public relation techniques agency-sales support techniques-tourist public methods-media-types of hotel supplementary accommodation-local, national and international.

UNIT V: USES OF MODERN INFORMATION TECHNIQUES:

New information techniques-use of computer technology and air buses-hotel-cargo-railways-travel agencies-youth hostel-sights-seeing trips and finance involved for the local and far off places-vehicles for youth and tourist marketing centers.

Text Books:

1. K. Karma, 2006, Economics and tourism Pricing, Impacts, Forecasting, Kanishka publishers and distributors, New Delhi.
2. J.K Sharma, 2007, Tourism and development, Kanishka Publishers and distributors, New Delhi.

3. M.D. Abu Bharkat Ali, 2005, Travel and Tourism management, PKI Learning Pvt. Ltd., New Delhi.

Books for reference:

1. Shashi Prabha Sharma, 2007, Tourism and Environment, Kanishka Publishers and Distributors, New Delhi.
2. Arpita Mathur, 2011, Fundamentals of Travel and Tourism, Ane Books Pvt. Ltd.

Web Resources:

1. https://www.tutorialspoint.com/tourism_management/tourism_management_introduction.htm
2. <https://study.com/academy/lesson/what-is-tourism-management.html>

Indian Financial System

(23PECEC2)

Course outcomes:

| COs | Statement | Knowledge level |
|-----|---|-----------------|
| CO1 | Analyse the Role and Nature of financial system | K4 |
| CO2 | Identify the structure of Indian financial market | K1 |
| CO3 | Categorise the financial instruments and its working system | K4 |
| CO4 | Analyse the functions of stock exchange | K4 |
| CO5 | Determine the Indian fiscal system | K3 |
| CO6 | To compare different portfolios and derive proper investment choice | K5, K6 |

K₁ – Remember, K₂ - Understand, K₃ – Apply, K₄ – Analyse, K₅ – Evaluate, K₆ – Create

Unit 1 Nature and Role of Financial System.

Financial System: significance, structure and functions; Indian Financial System: an overview; Trends and composition of savings; Financial dualism; Major issues in Indian Financial System; Financial sector reforms - impact of reforms on Indian commercial banks.

Unit 2 Structure of Financial Market India.

Credit markets: nature and constituents; Debt market—structure and functions; Money market—constituents and instruments; Capital markets—nature and constituents; Importance of capital markets; Capital market reforms; Recent trends in Indian capital markets.

Unit 3 Financial Services.

Classification of financial services: merchant banking, underwriting, credit rating, venture capital and factoring; financial instruments - debentures, shares, ADRs, and GDRs; Characteristics of financial instruments.

Unit – 4: Stock Exchange and its Regulations.

Stock exchange: importance and functions; Dealings on stock exchange; Stock market participants; Organization and working of stock exchange in India - OTCEI, NSE, BSE; Stock exchange regulations - Security Contract Regulation Act; SEBI - working and functions.

Unit 5 Indian Public Finance

Union finance: central sources of income; Trends in revenue and expenditure; State finance - sources of state revenue, expenditure of state governments; Public debt since 1951 - growth and composition, ownership pattern and debt management; Analysis of central and state government budget – current.

Books for reference:

- 1.Khan M.Y, Indian Financial System, McGraw Hill Education (India) Private Limited
- 2.Bharati V. Pathak, Indian Financial System, Pearson India Education Services Pvt. Ltd.

Web Reference

1. <https://www.classcentral.com/course/swayam-indian-financial-markets-and-services-93306>
2. https://onlinecourses.swayam2.ac.in/cec22_mg18/preview
3. <https://finshiksha.com/courses/finance-essentials-banking-markets-certification/>

MICRO FINANCE AND RURAL CREDIT

(23PECEC3)

Course Outcomes:

| COs | Statement | Knowledge level |
|-----|---|-----------------|
| CO1 | Get an idea regarding rural economy, their characteristic features | K1 |
| CO2 | Explain the problems of rural people and artisans, their need for money and credit. | K2 |
| CO3 | Infer the means to reduce poverty | K2 |
| CO4 | Describe the role of SHGs | K3 |
| CO5 | Predict the development of micro finance | K3 |
| CO6 | To develop the students how to create good contact with financial institutions | K6 |

UNIT – I INTRODUCTION

Concepts and definitions of micro finance its related concepts genesis or history of micro finance purpose and demand for micro finance in India-significance – introduction on micro finance institution – structure and functions of micro finance institution in India.

UNIT – II MICRO FINANCE AND RURAL ECONOMY

Need and demand for micro finance for farmers and rural entrepreneurs – classification of agricultural credit source of rural credit institutional credit for rural society – its growth and shortcoming – non-institutional credit rural co-operative credit society problems of co-operative credit society

UNIT – III MICRO FINANCE AND POVERTY ALLEVIATION

Micro finance to economic development – micro finance and agriculture – micro finance and rural entrepreneurial development – micro finance and education role of micro finance to employment generation – income enhancement infrastructural development – micro finance and weaker section – micro finance and poverty alleviation.

UNIT – IV MICRO FINANCE AND SELFHELP GROUP

Concept and meaning of SHG's – origin of SHG's – objectives – structure and nature of SHG's – functions of SHGs – lending practices assessing the performance SHGs. SHGs and income and employment generation.

UNIT – V CURRENT AND FUTURE SCENARIO OF MICRO FINANCE

Experience of micro finance practices in developed and developing countries – Recent development in the field of rural finance in India – different phase of micro finance sector in India.

Text Books:

1. Lalitha (2003), “Microfinance and Rural Development Dominant Pub, New Delhi.
2. Trivedi A.B. 2010, Micro Finance opportunities with reference to NABARD
3. Armendariz (2000), “The Economic of Microfinance”, the MIT, Press.

Books for reference:

1. Karmakar, K.G. (2000), “Rural Credit Self Help Group; Micro finance Need and Concepts in India Sage pub, New Delhi.
2. Report of the Ministry of Rural Development

Web Resources

1. <https://www.vedantu.com/commerce/rural-credit>
2. <https://www.rfilc.org/learning/rural-finance-course/>
3. <https://www.geeksforgeeks.org/rural-credit-meaning-purpose-need-sources-and-critical-appraisal/>

**ENTREPRENEURIAL DEVELOPMENT
(23PECEC4)**

Course Outcomes (COs):

Upon Completion of this course, the students will be able to

| S. No. | Course Outcomes | K-Levels |
|--------|---|---|
| CO1 | Understand the concept of Entrepreneurship | K ₁ , K ₂ , K ₄ |
| CO2 | Ability to learn the factors involved in business | K ₁ , K ₂ , K ₄ |
| CO3 | Identify the process involved in the project | K ₁ , K ₂ , K ₃ K ₄ |
| CO4 | Assess the methods of Project Appraisal | K ₁ , K ₂ , K ₃ K ₄ K ₅ |
| CO5 | Acquire the knowledge about source of Finance | K ₁ , K ₂ , K ₃ , K ₄ |

K₁ – Knowledge, K₂ - Understand, K₃ – Apply, K₄ – Analyse, K₅ – Evaluate, K₆ – Create.

Unit I: Introduction (12 Hours)

Introduction of Concepts Concept of Entrepreneur – characters of an entrepreneur – distinction between Entrepreneur & Manager – function & Types of Entrepreneurs. Concept Entrepreneurial ship – Role in Economic Development, Women Entrepreneurial ship – function, problems recent trends.

Unit II: Entrepreneurial Growth (12 Hours)

Entrepreneurial Growth Economic & Non-Economic Factors – Role of Government Entrepreneurial Motivation – Theories – factors- Entrepreneurial Development – Need, Objectives, Phases Evaluation.

Unit III: Project Formulation and Selection (12 Hours)

Projects & Entrepreneur Meaning – Identification – Selection- Project Formation: Meaning and Significance - Contents of a Project Report – Formation– Planning Commission Guidelines.

Unit IV: Project Appraisal (12 Hours)

Project Appraisal and Finance Concept - methods of Appraisal- Need for financial Planning – Source of finance - Capital structure – Capitalisation –venture capital – Export Finance.

Unit V: Institutional Finance (12 Hours)

Institutional Finance to Entrepreneurs Commercial Bank, Industrial Development of India (IDBI), Industrial Finance Corporation of India (IFCI), Industrial Credit & Investment Corporation of India (ICICI) Unit Trust of India (UTI), State Financial Corporation's (SFCs), State Industrial Development Corporation (SIDCO) Exam Bank of India- Institutional Support to Entrepreneur National Small Industries Corporation Ltd. (NSIC)- Small Industries Development Organisation (SIDO)- Small Scale Industries Board (SSIB)- State Small

Industries Development Corporations (SSICS)- Small Industries Service Institutes (SISI)- District Industries Centre (DICs).

Text Books:

1. Dr. S.S. Khanka (2011), Entrepreneurial Development, S. Chand & Company Ltd, Ram Nagar New Delhi. State Integrated Board of Studies –58.
2. Poornima M. Charantimath, (2007), Entrepreneurship Development and Small Business Enterprises, Pearson Education, New Delhi.

Reference Books:

1. Vasant Desai, (2008), Dynamics of Entrepreneurial Development and Management, Himalaya Publishing House, New Delhi.
2. Robert D. Hisrich, Michael P. Peters and Dean A. Shepherd, (2007) Entrepreneurship, Tata McGraw Hill, New Delhi.
3. Khanka, S.S. (2007), Entrepreneurial Development, S. Chand & Company, New Delhi.

Web Resources:

1. <https://www.startupindia.gov.in/content/sih/en/reources/l-d-listing.html>
2. <https://elearningindustry.com/entrepreneurship-and-elearning-top-5-elearning-options-newbie-entrepreneurs>

CO-PO Mapping (Course Articulation Matrix)

| CO /PO | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 |
|--|------|------|------|------|------|
| CO1 | 3 | 3 | 2 | 3 | 3 |
| CO2 | 3 | 3 | 2 | 3 | 3 |
| CO3 | 3 | 3 | 3 | 3 | 3 |
| CO4 | 3 | 3 | 3 | 3 | 3 |
| CO5 | 3 | 3 | 2 | 3 | 3 |
| Weightage | 15 | 15 | 12 | 15 | 15 |
| Weighted percentage of Course Contribution to Pos | 3 | 3 | 2.4 | 3 | 3 |

Level of Correlation between PSO's and CO's

(Suggested by UGC as per Six Sigma Tool – Cause and Effect Matrix)

Assign the value

1 – Low

2 – Medium

3 – High

0 – No Correlation

VALUE ADDED COURSES

USE OF STATISTICAL TOOLS WITH SPSS

(23PECVA1)

SEMESTER - I

VAC

HOURS – 2

CREDITS - 2

Unit – I: Introduction to SPSS

Opening Data and output file, saving data and output file, exporting data, reading data editor and variable view

Unit – II: Data and variable view

Defining variables and variable names, editing and sorting data

Unit – III: Working with Data

Computing Variables - Recoding (Transforming) Variables: Recoding Categorical String Variables using Automatic Recode - Rank Cases - Sorting Data - Grouping or Splitting Data.

Unit – IV: Exploring Data

Frequency table with one variable - scatter plot and histogram – Descriptive Statistics - Cross tabulation with two variables - Compare Means.

Unit – V: Analysing Data

Inferential Statistics for Association: Pearson Correlation, Chi-square Test of Independence
Inferential Statistics for Comparing Means: ANOVA.

Text Book

1. Herschel Knapp (2017) Introductory Statistics Using SPSS, 2nd Edition, SAGE Publications.
2. James O. A and James B. C (2015) Using IBM SPSS Statistics: An Interactive Hands-On Approach, 2nd Edition, Sage Publication.
3. Sabine L and Brian S. (2004) A Handbook of Statistical Analyses using SPSS, A CRC Press Company Boca Raton London New York Washington, D.C.

| | | | |
|-----------------------------------|--|--|--|
| DATABASE ON INDIAN ECONOMY | | | |
|-----------------------------------|--|--|--|

(23PECVA2)

| SEMESTER - I | PCS | HOURS – 2 | CREDITS - 2 |
|--------------|-----|-----------|-------------|
|--------------|-----|-----------|-------------|

Unit I National Income Indicators

Gross Domestic Product – Current and constant price – components of GDP - Gross State Domestic product – capital formation and other macroeconomic indicators.

Unit II Agriculture Sector

Production, Area under cultivation and Yield for food and non-food grains: National and State level – Minimum support price for food and non-food grains – Indian Agriculture Census.

Unit - III: Manufacturing and Trade

Annual Survey of Industries – MSME data – Export and Import of commodities and direction.

Unit IV: Health and Education Sector

National Family Health Survey reports – Infant Mortality Rate and Maternal Mortality Rate - other health related indicators – Data on education.

Unit V: Employment, Labour and Sustainable Development

Census of India: Main and Marginal cultivators – Main and Marginal agricultural labours –The Mahatma Gandhi National Rural Employment Guarantee Act – Introducing NSSO reports.

Web Sources

<https://www.rbi.org.in/>

<https://www.worldbank.org/en/home>

<https://www.weforum.org/>

<https://educationforallinindia.com/>

<https://www.mospi.gov.in/>

https://nrega.nic.in/MGNREGA_new/Nrega_home.aspx