

Semester- I

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Course No: P2ECTC101

Credits: 4

Title: Microeconomics-I

Maximum Marks: 100

a) Major Examination: 60

b) Minor Tests- I & II: 20 each (Duration: 1hr)

Duration of Major Examination: 2:30 hrs

Title: Microeconomics-I

Syllabus for Examination to be held in Dec 2025, 2026 and 2027

Course Outcome:

- To understand economics as a coherent whole, and to reinforce its usefulness through the applications to the real-world problems and their solutions.
- To learn demand and supply phenomena, consumer and producer behaviour, and the markets and its functioning.
- To equip students to characterize the market (decide which market or markets best suit the problem being analyzed, and identify the decision makers - buyers and sellers who interact there).
- To enable students to describe the conditions necessary for equilibrium in the market, and a method for determining that equilibrium.
- To enable students to determine and explore how events or government policies change the market equilibrium.
- To help the students learn how to think like economists, and in a very natural way so that they see economics as a unified whole, rather than as a series of disconnected ideas.

UNIT – I: Theory of Demand and Supply

Scarcity and Individual Choice, Opportunity Cost, Scarcity and Social Choice, Opportunity Cost and Society's Trade Offs, Society's Production Choices, Production Possibilities Frontier, Operating Inside Production Possibilities Frontier, Resource Allocation: Reasons and Methods, Market and its Characteristics, Law of Demand, Law of Supply, Equilibrium Price and Quantity, Equilibrium with Change in Demand and Supply

Elasticity of Demand, Price Elasticity of Demand, Slope of Demand Curve, Elasticity Approach: Calculating Price Elasticity of Demand, Categorizing Demand, Elasticity and Total Revenue, Determinants of Elasticity, Time Horizons and Demand Curves, Income Elasticity of Demand, Cross-Price Elasticity of Demand, Price Elasticity of Supply

UNIT – II: Theory of Consumer Behaviour

Consumer Choice: Budget Constraint, Changes in Budget Line, Consumer Preferences, Consumer Decisions: Marginal Utility Approach, Combining Budget Constraint and Preferences, Consumer Decisions with Change in Income and Price, Consumer's Demand Curve, Income and Substitution Effects, Consumers in Markets

Indifference Curve Approach: Indifference Curve theory, Marginal Rate of Substitution, Properties, Indifference Map, Indifference Curve and Consumer Decision Making, Income and Substitution effects, Change in Income and Consumer Decisions, Deriving Demand Curve with Indifference Curves, Revealed Preference Theory, Consumer Surplus

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UNIT – III: Theory of Production and Cost

Production Function: Short-Run versus Long-Run Production Decisions, Production in Short Run, Marginal Returns to Labour, Concept of Costs, Cost in Short Run: Measuring Short-Run Costs, Shape of Marginal Cost Curve, Relationship between Average and Marginal Costs, Production and Cost in Long Run, Relationship between Long-Run and Short-Run Costs, Explaining the Shape of *LRATC* Curve

Concept of Isoquant and its Properties, Marginal Rate of Technical Substitution, Isocost Lines, Properties of Isocost Lines, Least-Cost Input Combination, Firms Decisions: Goal of Profit Maximization, Profit-Maximizing Output Level: Total Revenue (TR) and Total Cost (TC) Approach, Marginal Revenue (MR) and Marginal Cost (MC) Approach, Profit Maximization Using Graphs: TR-TC Approach, MR-MC Approach, Dealing with Losses: Short Run and Shutdown Rule, Long Run and Exit Decision

UNIT – IV: Theory of Markets

Perfect Competition: Characteristics and Profit Maximization, Profit-Maximizing Output Level, Measuring Profit or Loss, Firm's Short-Run and Long-Run Equilibrium, Perfect Competition and Plant Size, Competitive Firm and Changes in Demand, Market Signals and Economy: Change in Demand and Reallocation of Resources, Technological Change in Perfect Competition

Monopoly and its Causes, Monopoly Behaviour: Price or Output Decision, Monopoly: Profit and Loss, Monopoly Markets: Short-Run and Long-Run Equilibrium, Monopoly Vs Perfect Competition, Monopoly Decisions and Changes in Demand and Cost-Saving Technology, Price Discrimination: Conditions, Effects and Types, Price Discrimination and Multiple Prices

Monopolistic Competition: Characteristics, Monopolistic Competition in Short Run and Long Run, Oligopoly and Its Causes, Competition versus Cartel, Non-Cooperative Oligopoly: Cournot Model, Stackelberg Model, and Bertrand Model, Advertising in Monopolistic Competition and Oligopoly, Oligopoly versus Other forms of Market

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Syllabus for Examination to be held in Dec 2025, 2026 and 2027

Note for Paper Setting: Minor Test -I and Minor Test - II each of 20 marks from Unit

Test I and Test II

The Subjective Test of Test I and Test II consist of three short answer type questions (05 marks each). Students are required to answer two questions. (5*2=10 & 10 MCQs=20)

The Subjective Test of Test II consist of three short answer type questions (05 marks each). Students are required to answer two questions. (5*2=10 & 10 MCQs=20)

No preparatory holidays shall be provided for the Test I and Test II. Those candidates who have appeared in Test I and Test II and failed to get the minimum required marks i.e. **14 out of 40 will be eligible to re-appear in the Test I and Test II only once.**

Major Test: The Major test will comprise two sections, Section-A and Section-B. Section-A will have one compulsory question comprising of **10 parts (minimum 02 from each unit) of 03 marks each.** Section B will have **04 questions of 15 marks each to be set from the last two units (02 from each unit).** In Section B students are required to attempt 01 question from each unit. **In major test there should not be a gap of more than two days in between two tests.**

Basic Readings:

1. Baumol, W.j. (1982) Economic Theory and Operations Analysis, Prentice Hall of India, New Delhi, Delhi.
2. Da Costa G.C (1980) Production, Prices and Distribution, Tata Macgraw Hill, New Delhi
3. Hirshleifer, J and A. Glazer (1997) Price Theory and Application, Prentice Hall of India, New Delhi.
4. Jack Hirshleifer, Amihai Glazer (1997) Price Theory and Application, Prentice Hall of India, New Delhi.
5. Koutsoyiannis, A (1979), Modern Microeconomics, (2nd Edition) Macmillan Press, London.
6. Richard G Lipsey: Colin Harbury, (1992) First Principles of Economics, (2nd Edition), Oxford University Press.
7. Stigler, G.(1996) Theory of Price, (4th Edition), Prentice Hall of India, New Delhi.
8. Varian, H. (2000) Microeconomics Analysis, W.W. Norton, New York

Semester- I

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Course No: P2ECTC102

Title: Macroeconomics-I

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

b) Minor Tests- I & II: 20 each (Duration: 1hr)

Duration of Major Examination: 2:30 hrs

Macroeconomics-I

Syllabus for the Examination to be held in Dec 2025, 2026 & 2027

Course Outcome: To understand macroeconomic theoretical structure for the proper comprehension of different issues and policies.

- To learn the various approaches to National Income and Accounts,
- To familiarize the students with the theory of consumption function and investment function
- To study various theories of Business Cycles and Macro Economic Policy
- To study and compare the Keynesian and Neo-classical perspectives on macroeconomic

Unit-1: Macro Economic Policy & National Income Accounts

Macroeconomies seven schools of thoughts, Circular Flow of income in two, three and four- sector economy, different forms of national income accounting-social accounting, flow of funds accounting, and balance of payments accounting; New classical critique of Micro-Foundations of Macroeconomics, New classical theoretical conclusions; Rational expectations, Empirical validity of Rational expectation hypothesis & Policy implication of New classical approach.

Unit-II: National Income Determination: The IS-LM Model

Demand-side Equilibrium Income and Interest Rate in the Product Market- derivation of the IS curve, Equilibrium Income and Interest Rate in the Money Market- Derivation of the LM curve, Equilibrium in the Product and Money Markets- the combined IS- LM model; Fiscal Policy Effects on Demand; Monetary Policy effects on Demand; Interaction of Fiscal and Monetary Policies, Crowding out effect and crowding in effect

Unit-III: Sectoral Demand Functions: Consumption and Investment

Background of the Consumption Function; Duesenberry's Relative Income Hypothesis; Friedman's Permanent Income Hypothesis; Ando-Modigliani's Life Cycle Hypothesis: The Modern Approach- Consumption under Uncertainty, Marginal Efficiency of Capital and Investment: The Neo-classical theory of investment; The Stock Demand for capital and the flow. of Investment, investment Subsectors-Business Fixed, Residential and inventory: Investment and Aggregate Supply

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Duration of Major Examination: 2:30 hrs

Macroeconomics-I

Syllabus for the Examination to be held in dec 2025, 2026 & 2027

Unit-IV Business Cycle and Macro-Economic Policy

Theories of Kaldor: Samuelson JR Hicks and Goodwin's model of business cycle, Control of Business Cycles Macroeconomic Policy Objectives, and instruments: Developments in Macroeconomics to the 2009 Crisis: New Classical Economics and Real Business Cycle New Keynesian Economies, New Growth Theory: Toward an Integration.

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No preparatory holidays shall be provided for the Test I and Test II. Those candidates who have appeared in Test I and Test II and failed to get the minimum required marks i.e. **14 out of 40 will be eligible to re-appear in the Test I and Test II only once.**

Major Test

The Major test will comprise two sections, Section-A and Section-B. Section-A will have one compulsory question comprising of **10 parts (minimum 02 from each unit) of 03 marks each.** Section B will have **04 questions of 15 marks each to be set from the last two units (02 from each unit).** In Section B students are required to attempt 01 question from each unit. **In major test there should not be a gap of more than two days in between two tests.**

Basic Reading List

- Ackiey, G. (1978) Macroeconomics: Theory and Polity. Mache far. New York
- Blackhouse. R. and A. Salansi (de) (2000), Macroeconomies and the Real Warin (2 Vala Oxford University Press London
- Branson, WA (1989), Macroeconomic Theory and Policy. (3rd Edition, Harper and Ros, New York
- Dornbusch. R., and F. Stanley (1997), Macroeconomics, McGraw Hill, inc. New York.
- Edmund Phelps (1990), Seven School of Macroeconomies Thought. Oxford University Press.

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Course No: P2ECTC102

Title: Macroeconomics-I

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

b) Minor Tests- I & II: 20 each (Duration: 1hr)

Duration of Major Examination: 2:30 hrs

Macroeconomics-I

Syllabus for the Examination to be held in dec 2025, 2026 & 2027

- Hall, R.E. and J.B. Taylor (1986), Macroeconomics, W. W. Norton, New York.
- Heijdra, B.J. and V.P. Fredrick (2001), Foundations of Modern Macroeconomies, Oxford University Press, New Delhi.
- Jha, R. (1991), Contemporary Macroeconomics Theory and Policy, Wiley Easters Ltd., New Delhi
- Romer. D.L. (1996), Advanced Macroeconomies, McGraw Hill Company Ltd., New York.
- Foryen. Richard T. Macroeconomics-Theories and Policies, Pearson Education Inc., New York
- Oliver Blanchard & David R. Johnson (2000), Macroeconomics, Pearson, New Delhi
- Scafe B.L. (1977), Cycles, Growth and Inflation, McGraw Hill, New York.
- Shapiro, E. (1996), Macroeconomic Analysis, Galgotia Publication, New Delhi.
- Surrey, M.J.C. (Ed.) (1976), Macroeconomic Themes, Oxford University Press, Oxford.

Semester- I

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Course No: P2ECTC103

Credits: 4

Title: Mathematical Methods in Economics

Maximum Marks: 100

a) Major Examination: 60

b) Minor Tests- I & II: 20 each (Duration: 1hr)

Duration of Major Examination: 2:30 hrs

Mathematical Methods in Economics

Syllabus for the Examination to be held in Dec 2025, 2026 & 2027

- **Course Outcome:** To train the students the use of mathematical tools to understand concepts in economics presented in the form of mathematical models and express economic ideas in the same form.
- To enable the students to utilize the tools in subsequent courses especially those courses where the use of mathematics has become a norm.

UNIT-I: Equations and Differentiation

Numbers-natural, Integers, rational, irrational, complex, linear equations. Mathematical operations with Matrices, solution of simultaneous equations: Rank of the matrix, matrix inversion. Quadratic Equations, Eigen roots and Eigen Vectors. Concepts of limit and continuity, Economic examples and applications. Principles of differentiation, rules of differentiation, differentiation of implicit function, parametric function.

UNIT-II: Calculus

Partial and total differentiation, Expansion by Taylor Series. Allied economic applications. Maxima and Minima- constrained and unconstrained, economic application. Principles of integration: Indefinite and definite. Application in economics theory Economic application- Derivation of Consumers Surplus, Producers Surplus, Profit and utility maximization with one good, product and input, Derivation of demand curves for inputs, goods etc., Comparative statics and allied economic applications: combining calculus-Derivation of Slutsky Equation, IS-IM model, Cobb Douglas and CES production functions, elasticity of demand, supply substitution.

UNIT-III: Difference and Differentials

Differential Equations: definitions and concepts; Solution of first order and second order differential equations, Difference equations: definitions and concepts; Solution of first order and second order difference equations, Simultaneous Differential equations and phase diagrams, Application of difference and differential equations in Economics- Cobweb model, foreign trade multiplier model, Market model with stocks- National Income Model

Semester- I

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Course No: P2ECTC103

Title: Mathematical Methods in Economics

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

b) Minor Tests- I & II: 20 each (Duration: 1hr)

Duration of Major Examination: 2:30 hrs

Mathematical Methods in Economics

Syllabus for the Examination to be held in dec 2025, 2026 & 2027

UNIT-IV: Linear Programming, Operations and Applications

Linear programming- Basic concepts; functions of a LP problem; Nature of feasible, basic and optimal solutions; Solution of a LP problem through graphical and simplex methods (Slack, Surplus and artificial variables); Formulation of Dual and its interpretation; Input-Output Analysis: Introduction, Input-Output transaction table, the technological Co- efficient matrix, solution of open model, The Hawkins-Simon Conditions, solution for 2 and 3 industries, determination of equilibrium prices.

Note for Paper Setting: Minor Test -I and Minor Test - II each of 20 marks from Unit

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Basic Reading List:

1. Allen, R.G.D. (1976). Mathematical Analysis for Economists, Macmillan.
2. Chiang, A.C. (1974). Fundamental Methods of Mathematical Economics, McGraw Hill and Kogakusha, New Delhi.
3. Mehta & Madnani (1992). Mathematical for Economists, S. Chand, New Delhi.
4. Samuelson, P.A. (1967). Foundations of Economic Analysis, McGraw Hill, Tokyo.
5. Henderson & Quandt, Microeconomics: A Mathematical Approach, Tata McGraw Hill.
6. Baumol, W.J. (1970). Economic Dynamics, Macmillan, London.
7. Leonard and Von Long (1978). Introduction to Maths for students of Economics, Cambridge.

Semester- I

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Course No: P2ECTC104

Title: Development Economics

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

b) Minor Tests- I & II: 20 each (Duration: 1hr)

Duration of Major Examination: 2:30 hrs

Syllabus for the Examination to be held in Dec 2025, 2026 & 2027

Course Outcome

- To comprehend the evolution of the concept of economic development and economic growth.
- Able to learn about the role of institutions in the process of economic development.
- To get familiarize with the different indicators and measures of development and development gap.
- To learn various models and theories of economic growth and development and to reinforce its usefulness through the applications to the real-world problems and their solutions.
- Understand the evolving roles of agriculture, industry, and services in economic development.
- Able to get the procedural knowledge about different investment criteria for developing countries like India.
- Interpret regional development indicators and identify key developmental challenges specific to Jammu & Kashmir.

UNIT– I: Social and Institutional Aspects of Development

Development and underdevelopment - perpetuation of underdevelopment; Traditional and Modern view of Development; Amartya Sen's Capabilities Approach; Sustainable Development and SDGs ;Poverty - Absolute and relative - measures of poverty and their merits and demerits; Inequality - Measures of Inequality; **Measuring development** - Human development index and other indices of development; Population problems -- Theory of demographic transition and demographic dividend; **Economic development and institutions** -- markets and market failure, state and state failure, Issues of Good governance

UNIT – II: Theories of Development

Classical theory of capitalistic development: Growth and stagnation, Marxian Model of Growth and Collapse and Schumpeter theory of Economic Development, **Partial theories of growth and development** -- vicious circle of poverty, circular causation, Prebisch-Singer Hypothesis **Structuralist and Dual Economy Theories:** Lewis Model, Ranis and Fei model, Rostow's stages of Economic Development, Balanced growth, Unbalanced growth, Critical minimum effort thesis, Low Level Equilibrium trap.

Semester- I

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Course No: P2ECTC104

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Credits: 4

Maximum Marks: 100

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Duration of Major Examination: 2:30 hrs

Syllabus for the Examination to be held in Dec 2025, 2026 & 2027

UNIT - III: Sectoral Aspects of Development

Agriculture and Economic Development-Role of Agriculture in economic development, Transformation of agriculture and rural development, Complementarity between agriculture and industry, **Patterns and Strategies of Industrialization**-Rationale and pattern of industrialization in developing countries, Import substitution versus Export promotion; Labour markets in developing countries, Choice of techniques and appropriate technology; **Service Sector and Economic Development**- Role of services in development; Knowledge economy and human capital; **International trade**: Trade as an engine of growth, Static and dynamic gains of trade; technology Inflow, MNCs activity in developing countries, Dual Gap analysis, WTO and developing countries.

UNIT– IV: Macroeconomic Policies, Development Planning, and Regional Focus (with special reference to Jammu & Kashmir)

Macroeconomic Policy Frameworks: Role of Monetary and Fiscal Policies in developing countries, Inflation and Economic growth: Empirical Evidence, Aid versus Trade, IMF and World bank Policies in developing countries;

Investment Appraisal and Planning Techniques- Need for investment criteria—Present versus Future, Alternative investment criteria, Cost- Benefit analysis, Shadow prices, Project Evaluation and UNIDO guidelines; **Development Planning in India**: Evolution from **Five-Year Plans** to the **NITI Aayog** framework: **Regional Development: Jammu & Kashmir Focus**: Performance of J&K on **key development indicators**: literacy, health, poverty, employment, infrastructure; Development challenges and regional planning

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Duration of Major Examination: 2:30 hrs

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1. Adelman, I. (1961), Theories of Economic Growth and Development, Stanford University Press, Stanford.
2. Behrman, S. And T.N. Srinivasan (1995), Handbook of Development Economics, Vol. 3, Elsevier, Amsterdam.
3. Ghatak, S. (1986), An Introduction to Development Economics, Allen and Unwin, London.
4. Hayami, Y. (1997), Development Economics, Oxford University Press, New York.
5. Higgins, B. (1959), Economic Development, W.W., Norton, New York.
6. Meir, G.M. (1995), Leading Issues in Economic Development (6th Edition). Oxford University Press, New Delhi.
7. Ray, Debraj (2011), Development Economics, Oxford University Press, Delhi.
8. Thirwall, A.P. (2011), Growth and Development, (9th Edition) Macmillan, U.K.
9. Todaro, M.P. (2011), Economic Development, (9th Edition), Longman London.
10. Chakarvarti, S. (1987), Developing Planning: The Indian Experience, Clarendon Press, Oxford.
11. Dasgupta, P., A.K. Sen and S. Maglini (1972), Guidelines for Project Evaluation, UNIDO, Vienna.
12. Mishan, E.J. (1975), Cost Benefit Analysis (2nd Edition) Allen and Unwin, London.
13. Sen, A.K. (Ed.) (1990), Growth Economics, Penguin, Harmondsworth

Semester- I
Syllabi of Economics for Two Year P.G Programme as per NEP 2020
Core

Course No: P2ECTC105

**Title: Indian knowledge system
& Ancient Economics**

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

b) Minor Tests- I & II: 20 each (Duration: 1hr)

Duration of Major Examination: 2:30 hrs

Syllabus for Examination to be held in Dec 2025, 2026 and 2027

Course Outcome:

Given the nature of course and diversity of the learners' fields, the course is designed to provide a broad spectrum of the Indian knowledge system. The main objectives of this course areas follow:

- Creating awareness among the youths about the true history and rich culture of the country;
- Understanding the scientific value of the traditional knowledge of India;
- Promoting the youth to do research in the various fields of Indian knowledge system;
- Converting the ancient Indian wisdom into the applied aspect of the modern scientific paradigm;
- Adding career, professional and business opportunities to the youths; and
- To make the students understand the traditional knowledge and Economic systems and analyses it to apply to their day-to-day life.

UNIT I: Introduction to Indian Knowledge System (IKS) and Indian Scholars

Definition, Concept and Scope of IKS; IKS based approaches on Knowledge Paradigms; IKS in ancient India and in modern India.

Philosophy and Literature (Maharishi Vyas, Manu, Kanad, Pingala, Parasar, Banabhatta, Nagarjuna and Panini)

Mathematics and Astronomy (Aryabhatta, Mahaviracharya, Bodhayan, Bhashkaracharya, Varahamihira and Brahmgupta)

Medicine and Yoga (Charak, Susruta, Maharishi Patanjali and Dhanwantri)

Shastra (Nyaya, vyakarana, Krishi, Shilp, Vastu, Natya and Sangeet)

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Duration of Major Examination: 2:30 hrs

Syllabus for Examination to be held in Dec 2025, 2026 and 2027

UNIT-II: Science, Astronomy, and Mathematics

Concept of Matter, Life and Universe, Gravity, Sage Agastya's Model of Battery, Velocity of Light, Vimāna: Aeronautics, Vedic Cosmology and Modern Concepts, Bhāratīya Kāla-gaṇanā, Kerala School for Mathematics and Astronomy, History and Culture of Astronomy, Sun, Earth, Moon, and Eclipses, Earth is Spherical and Rotation of Earth, Archaeoastronomy; Concepts of Zero and Pi, Number System, Pythagoras Theorem, and Vedic Mathematics.

Unit-III: Development of Indian Ancient Economic Thought:

Development of Economic Ideas; Characteristics of Indian economic ideas; absence of Economics as an independent science; influence of religion, influence of Buddhism, normative character, place of wealth in the society, welfare of the society; a comparative study of Indian and Western thought- attitude towards wealth, positive normative, free economy vs controlled economy, few wants vs multiplicity of wants.

Unit IV: State and Economy-some theoretical concepts:

Concept of state -state and economic systems; state control over the economy; state enterprise; place of Treasury in the economy; Definition of Arthshastra and Varta; Importance of wealth; Definition of Arth; Definition of Consumption; scope of economics; Dandniti and jurisprudence and polity; the problem of varta; Methods of Economics-ideals of the state-fourfold vision of society, welfare and promotion of subjects, Dignity of labour, Law and Order, Development of Varta

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Duration of Major Examination: 2:30 hrs

Syllabus for Examination to be held in Dec 2025, 2026 and 2027

Suggestive Readings:

1. Chakradeo, Ujwala, Temples of Bharat, Aayu Publications, New Delhi, 2024.
2. D.N. Bose, S.N. Sen and B.V. Subbarayappa, A Concise History of Science in India, Indian National Science Academy, New Delhi, 2009.
3. Datta B. and A. N. Singh, History of Hindu Mathematics: Parts I and II, Asia Publishing House, Bombay, 1962.
4. Kapoor, K. (2021), Indian Knowledge System: Nature, Philosophy, Character in Indian Knowledge System, vol. 1, Pub. Indian Institute of Advanced Studies, Shimla
5. Kulkarni, Raghunath Purushottam, Char Shulbsutra, Rashtriya Ved Vidya Sansthan, 2000.
6. Mahadevan, B., Bhat, V.R., Pavana, N. (2022), Philosophical Systems, in Introduction to Indian Knowledge System, Pub. PHI Learning, New Delhi.
7. Mahadevan, B., Bhat, V.R., Pavana, N. (2022), Knowledge: Framework and Classification, in Introduction to Indian Knowledge System, Pub. PHI Learning, New Delhi.
8. Mahadevan, B., Vinayak Rajat Bhat, and R.N. Nagendra Pavana, Introduction to Indian Knowledge System: Concepts and Applications, PHI Learning Private Limited, New Delhi, 2022.
9. Mahadevan, B., Bhat, V.R., Pavana, N. (2022), Astronomy, in Introduction to Indian Knowledge System, Pub. PHI Learning, New Delhi.
10. Mukharji, Anisha Shekhar. Jantar Mantar, Maharaja Jaysingh's Observatory in Delhi, Atlantic Publication, Delhi. 2010.
11. M. Hiriyanna, M., Outlines of Indian Philosophy, Motilal Banarsidass, New Delhi, 1994.
12. Pandey, Om Prakash, Sanskrit Vichar ki Aviram Bhartiya Yatra, Uttar Pradesh Hindi Sansthan, Lucknow, 2019
13. Pandey, Om Prakash, Vedic Vangamayka Parisheelan, Uttar Pradesh Hindi Sansthan, Lucknow, 2020.
14. Pandey, K.K., Kriya Sarira Comprehensive Human Physiology, Chaukhambha Sanskrit series, Varanasi, 2018.
15. Pride of India-A Glimpse of India's Scientific Heritage edited by Pradeep Kohle et al. Samskrit Bharati (2006).
16. Vedic Physics by Keshav Dev Verma, Motilal Banarsidass Publishers (2012).
17. India's Glorious Scientific Tradition by Suresh Soni, Ocean Books Pvt. Ltd. (2010).

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Core

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Maximum Marks: 100

a) Major Examination: 60

b) Minor Tests- I & II: 20 each (Duration: 1hr)

Duration of Major Examination: 2:30 hrs

Syllabus for Examination to be held in Dec 2025, 2026 and 2027

Note for Paper Setting: Minor Test -I and Minor Test - II each of 20 marks from Unit

Test I and Test II

The Subjective Test of Test I and Test II consist of three short answer type questions (05 marks each). Students are required to answer two questions. (5*2=10 & 10 MCQs=20)

The Subjective Test of Test II consist of three short answer type questions (05 marks each). Students are required to answer two questions. (5*2=10 & 10 MCQs=20)

No preparatory holidays shall be provided for the Test I and Test II. Those candidates who have appeared in Test I and Test II and failed to get the minimum required marks i.e. **14 out of 40 will be eligible to re-appear in the Test I and Test II only once.**

Major Test: The Major test will comprise two sections, Section-A and Section-B. Section-A will have one compulsory question comprising of **10 parts (minimum 02 from each unit) of 03 marks each.** Section B will have **04 questions of 15 marks each to be set from the last two units (02 from each unit).** In Section B students are required to attempt 01 question from each unit. **In major test there should not be a gap of more than two days in between two tests.**

Semester- I

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

(Skill Based Course)

Course No: P2ECTE106

Title: AI and Cyber Crime in Financial markets

Syllabus for the **Examination to be held in DEC-2025, 2026 and 2027**

Sr. No.	Course No.	Title of the Course	Contact Hours/Week L-Tu-P	Maximum Marks	Credits
1.	P2ECTE 106	AI and Cyber Crime in Financial Markets	2-0-2	50	2

Course Outcomes:

This interdisciplinary course explores the interface between artificial intelligence (AI), cybercrime, and financial and economic markets. It aims to equip economics students with theoretical understanding and practical insights into how AI is reshaping markets, the evolving nature of cyber threats, and the economic implications of cybercrime in the digital age.

- To critically examine how AI technologies (such as machine learning, neural networks, and predictive analytics) are deployed to detect, prevent, and respond to cyber threats in global financial markets.
- To analyze the economic costs of cybercrime on emerging financial markets and assess how AI tools can aid in minimizing systemic risks and economic disruption.

Unit 1: The Role of Artificial Intelligence in Detecting and Preventing Cyber Crime in Financial Markets

- i. General overview of cyber threats in financial systems .
- ii. AI-based solutions in fraud detection, transaction monitoring, etc.
- iii. Case studies of institutions using AI to combat cybercrime (RBI initiatives).
- iv. Ethical and privacy concerns with AI surveillance in financial systems.
- v. Future prospects and limitations of AI in securing financial infrastructure.

Semester- I
Syllabi of Economics for Two Year P.G Programme as per NEP 2020
(Skill Based Course)

Course No: P2ECTE106

Title: AI and Cyber Crime in Financial markets

Syllabus for the **Examination to be held in DEC-2025, 2026 and 2027**

Sr. No.	Course No.	Title of the Course	Contact Hours/Week L-Tu-P	Maximum Marks	Credits
1.	P2ECTE 106	AI and Cyber Crime in Financial Markets	2-0-2	50	2

Unit 2: Economic Implications of Cyber Crime and the Use of AI in Risk Mitigation in Emerging Markets

- i. Estimating direct and indirect economic losses from financial cybercrime.
- ii. Cybercrime vulnerability in emerging economies.
- iii. AI applications in risk assessment, credit scoring fraud protection, and real-time threat intelligence.
- iv. Role of central banks and regulatory authorities in promoting AI adoption.
- v. Policy frameworks for AI deployment and data security in emerging financial markets.

SCHEME OF EXAMINATIONS

Minor I (10 marks)

The focus is on practical, employability-driven, and application-oriented learning outcomes.

Component	Marks
Quiz	05
01 Assignment	05
Total	10

Minor II (10 marks)

Component	Marks
Quiz	05
01 Assignment	05
Total	10

End-Semester (Major)

To facilitate the application of analytical tools and collaborative skills, a group project will be assigned at mid-semester. This project will serve as a significant component of the end-semester evaluation for the **AI and Cyber Crime in Financial markets** course. The final project shall be of 30 marks and distribution of marks is as under:

Group Project Output	Group Presentation	Individual Contribution	Reflective Report	Total
10	5	10	5	30

Evaluation Criterion:

Final Each Seminar presentation will be of **duration 45-60 minutes**. Evaluation of the seminar will be done by the DAC members on the above parameters. There will be no external examination/viva-voce examination. The schedule of the Seminar will be issued by the Head of the Department.

Semester- I

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Course No: P2ECTE107

**Title: Master Minds
for Financial Markets**

Syllabus for the **Examination to be held in DEC-2025, 2026 and 2027**

Sr. No.	Course No.	Title of the Course	Contact Hours/Week L-Tu-P	Maximum Marks	Credits
1.	P2ECTE 107	Master Minds for Financial Markets	2-0-2	50	2

Course Outcomes:

- To equip students with theoretical and practical knowledge of financial markets.
- To develop analytical and decision-making skills related to investments, trading, and market analysis.
- To bridge the gap between academic knowledge and market practices.
- To foster competence in interpreting market trends, data analysis, and investment strategies.

Unit 1: Advanced Financial Instruments and Market Operations (25 Marks)

- i. Derivatives (Options, Futures, Swaps)
- ii. Bonds and Yield Curve Analysis
- iii. Equity Valuation Models
- iv. Algorithmic Trading and High-Frequency Trading (HFT)
- v. Market Microstructure and Trading Strategies
- vi. SEBI regulations and compliance

Unit 2: Investment Strategies and Portfolio Management (25 Marks)

- i. Risk-return framework and asset allocation
- ii. Fundamental and technical analysis
- iii. Modern Portfolio Theory (MPT) and Efficient Market Hypothesis (EMH)
- iv. Behavioral Finance insights
- v. Portfolio performance evaluation (Sharpe Ratio, Alpha, Beta)
- vi. ESG investing and ethical considerations in portfolio design

Assessment Components:

- Case study analysis of derivative market transactions
- Short quiz on financial instruments
- Practical trading simulation or mock trading floor participation
- Group project: Design a model portfolio based on client profile
- Presentation of investment strategy
- Multiple-choice or scenario-based assessment

Semester- I

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Course No: P2ECTE107

**Title: Master Minds
for Financial Markets**

Syllabus for the Examination to be held in DEC-2025, 2026 and 2027

Sr. No.	Course No.	Title of the Course	Contact Hours/Week L-Tu-P	Maximum Marks	Credits
1.	P2ECTE107	Master Minds for Financial Markets	2-0-2	50	2

SCHEME OF EXAMINATIONS

Minor I (10 marks)

The focus is on practical, employability-driven, and application-oriented learning outcomes.

Component	Marks
Quiz	05
01 Assignment	05
Total	10

Minor II (10 marks)

Component	Marks
Quiz	05
01 Assignment	05
Total	10

End-Semester (Major)

To facilitate the application of analytical tools and collaborative skills, a group project will be assigned at mid-semester. This project will serve as a significant component of the end-semester evaluation for the *Master Minds for Financial Markets*. The final project shall be of 30 marks and distribution of marks is as under:

Group Project Output	Group Presentation	Individual Contribution	Reflective Report	Total
10	5	10	5	30

Evaluation Criterion:Final Each Seminar presentation will be of **duration 45-60 minutes**.

Evaluation of the seminar will be done by the DAC members on the above parameters. There will be no external examination/viva-voce examination. The schedule of the Seminar will be issued by the Head of the Department

Semester- II

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Core Courses

Course No: P2ECTC201

Credits: 4

Title: International Economics

Maximum Marks: 100

a) Major Examination: 60

b) Minor Tests- I & II: 20 each (Duration: 1hr)

Duration of Major Examination: 2:30 hrs

International Economics

Syllabus for the Examination to be held in May 2026, 2027 and 2028

- **Course Outcome:** To provide a deeper and wider understanding about the principles and theories, which govern the free flow of trade in goods, services and capital between the countries.
- To prepare the students to appreciate the relevance and limitations of the theories and principles of international trade.
- To covers the empirical evidence of various theories, welfare implications and gains from trade.

UNIT - I: Theory of International Trade – I

Significance and scope of International Economics, Economic Basis of International Trade, Contributions of Adam Smith, David Ricardo and J.S. Mill to the theory of International Trade, Theory of Opportunity Cost

UNIT - II: Theory of International Trade – II

Modern Theories of International Trade : Heckscher-Ohlin Theory of I rude and its empirical verification, Rybznski Theorem, The Stolper – Samuelson Theorem, Factor-Price-Equalization Theorem, International Trade in Specific Factors Model, Imperfect Competition and International Trade : Concept of Intra-Industry Trade, its Basis Measurement and Significance, New Theories of Trade : Kravis and Linder

UNIT - III: Gains from Trade and International Trade Policy

Concepts of Terms of Trade, their uses and limitation, Hypotheses of Secular Deterioration in Terms of Trade, Reasons for Deterioration in Commodity Terms of Trade and Policy Implications for Developing Countries; Trade as Engine of Growth: Concept of Immiserizing Growth, Empirical Evidence and Policy Issues; Theory of Interventions : Tariffs, Quotas and Non-Tariff Barriers to International Trade, Economic Effects of Tariffs and Quotas (Partial and General Equilibrium Analysis); Theory of Optimum Tariff, Concepts of Nominal and Effective Tariffs

Semester- II

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Core Courses

Course No: P2ECTC201

Title: International Economics

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

b) Minor Tests- I & II: 20 each (Duration: 1hr)

Duration of Major Examination: 2:30 hrs

International Economics

Syllabus for the Examination to be held in May 2026, 2027 and 2028

UNIT - IV: Balance of Payments

Meaning and Components of Balance of Payments, Equilibrium and Disequilibrium in the Balance of Payments (BoP), Process of Adjustment under Fixed and Flexible Exchange Rate Regimes, Expenditure Changing and Expenditure Switching Policies for Balance of Payments (BoP) Adjustment, Policies for Achieving Internal and External Equilibrium simultaneously: Mundell – Fleming Model, The Monetary Approach to the Theory of Balance of Payments adjustment.

Note for Paper Setting: Minor Test -I and Minor Test - II each of 20 marks from Unit

Test I and Test II

The Subjective Test of Test I and Test II consist of three short answer type questions (05 marks each). Students are required to answer two questions. (5*2=10 & 10 MCQs=20)

The Subjective Test of Test II consist of three short answer type questions (05 marks each). Students are required to answer two questions. (5*2=10 & 10 MCQs=20)

No preparatory holidays shall be provided for the Test I and Test II. Those candidates who have appeared in Test I and Test II and failed to get the minimum required marks i.e. **14 out of 40 will be eligible to re-appear in the Test I and Test II only once.**

Major Test: The Major test will comprise two sections, Section-A and Section-B. Section-A will have one compulsory question comprising of **10 parts (minimum 02 from each unit) of 03 marks each**. Section B will have **04 questions of 15 marks each to be set from the last two units (02 from each unit)**. In Section B students are required to attempt 01 question from each unit. **In major test there should not be a gap of more than two days in between two tests.**

Semester- II

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Core Courses

Course No: P2ECTC201

Title: International Economics

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

b) Minor Tests- I & II: 20 each (Duration: 1hr)

Duration of Major Examination: 2:30 hrs

International Economics

Syllabus for the Examination to be held in May 2026, 2027 and 2028

Basic Reading List

1. Paul R. Krugman and Maurice Obstfeld (2007), International Economics; Theory and Policy, Pearson Education, New Delhi
2. Jagdish N. Bhagwati et al (2003), Lectures on International Trade, Oxford University Press, New Delhi
3. Dominick Salvatore (2004) International Economics, John Wiley & Sons Inc.
4. H.G Mannur (1998) International Economics, Vikas Publishers, New Delhi.
5. Dunn R. M. & J.H Mutti (2000) International Economics, Routledge, London
6. Carbaugh R. J (1999) International Economics, Routledge, London.
7. Dana, M. S (2000) International Economics : Study Guide and Workbook, Routledge Publishers, London
8. Bhagwati J.(1988) Protectionism, Cambridge University Press Massachusetts
9. Sodersten Bo (1991) International Economics, The Macmillan Press Ltd. London
10. Bhagwati, J. (Ed.) (1981) International Trade : Selected Readings Cambridge University Press, Massachusetts

Semester- II

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Core Courses

Course No: P2ECTC202

Title: Statistical Methods

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

b) Minor Tests- I & II: 20 each (Duration: 1hr)

Duration of Major Examination: 2:30 hrs

Statistical Economics

Syllabus for the Examination to be held in May 2026, 2027 and 2028

- **Course Outcome:** To train students in the use of statistical tools and techniques that will help the students in data collection, presentation and draw inferences about various statistical hypotheses.

UNIT - I: Measures of Central Tendency, Dispersion & Correlation and Regression

Statistics - Nature and scope. Types of Statistics - descriptive and inferential. Measures of Central Tendency and Dispersion, Meaning, assumptions and limitations of Simple correlations and regression analysis; Pearson's Product Moment Formula and Spearman's Rank Correlations, Concept of least squares and lines of regression; Methods of estimating non-linear equations e.g. parabolic equation, Standard Error of estimate Partial and Multiple Correlations, Coefficient of determination.

UNIT - II: Index Numbers, Time Series Analysis, Measures of Inequality

Nature and Purpose of Index Numbers, Commonly Used Index Numbers, Laspeyres and Paasche's Index Numbers, Chain Base Index Numbers, Official Index Number, True Cost of Living Index, Fisher's test or Index Numbers, Nature and Decomposition of a Time Series, Analysis of Trend: Polynomial Trend, Non-linear Growth Curves; Moving Average Method, Seasonal Component, Cyclical and Random Component, Forecasts and their Accuracy, Measures of Inequality, The Desirable Properties of a Measure of Inequality, the GINI Coefficient, the Lorenz Curve, The Coefficient of Variation, The Relative Range, Kuznets Ratio

UNIT – III: Probability and Distributions

Probability theory - different concepts and approaches, Laws and Axioms of Probability, conditional theory - different concepts of Interdependence, Baye's theorem and its applications, Concept of random variable: probability, mass and density functions; Expected Value, Probability distributions: Binomial, Poisson, and Normal, Chi Square, F

Semester- II

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Core Courses

Course No: P2ECTC202

Title: Statistical Methods

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

b) Minor Tests- I & II: 20 each (Duration: 1hr)

Duration of Major Examination: 2:30 hrs

Statistical Economics

Syllabus for the Examination to be held in May 2026, 2027 and 2028

UNIT - IV: Theory of Estimation and Hypothesis Testing

Concept of an estimator and its sampling distributions, Properties of good estimator, Formulation of statistical Hypotheses - Null and Alternative, Goodness of fit; confidence interval and level of significance, Hypothesis testing based on Z, t, F, and chi-square tests; Errors of types II and I, Analysis of Variance

Test I and Test II: The Subjective Test of Test I and Test II consist of three short answer type questions (05 marks each). Students are required to answer two questions. (5*2=10 & 10 MCQs=20). The Subjective Test of Test II consist of three short answer type questions (05 marks each). Students are required to answer two questions. (5*2=10 & 10 MCQs=20)

No preparatory holidays shall be provided for the Test I and Test II. Those candidates who have appeared in Test I and Test II and failed to get the minimum required marks i.e. **14 out of 40 will be eligible to re-appear in the Test I and Test II only once.**

Major Test: The Major test will comprise two sections, Section-A and Section-B. Section-A will have one compulsory question comprising of **10 parts (minimum 02 from each unit) of 03 marks each**. Section B will have **04 questions of 15 marks each to be set from the last two units (02 from each unit)**. In Section B students are required to attempt 01 question from each unit. **In major test there should not be a gap of more than two days in between two tests.**

Basic Reading List

1. Croxton, Croyden and Klein (1971) Applied General Statistic, Prestice Hall of India, New Delhi.
2. Goon, AM, MK Gupta and B. Das Gupta (1983), Fundamental of Statistical Vol. I, The World Press, Calcutta.
3. Hod, P.er (1954) Introduction to Mathematical Statistics, Wiley and Sons.
4. Hogg R.V. and A.T. Craig(1970), Introduction to Mathematical Statistics, Macmillan Publishing Co., New York.
5. Nagar, A.L. and R.K. Das (1993). Basic Statistics, Oxford University Press, New Delhi.
6. Rao, C.R. (1965), Linear Statistical Inference and Application Wiley and Sons.
7. Sukhatme, P.V. and B.V. Sukhatme (1970). Sampling Theory of Survey with Applications Low a State University Press, Ames.
8. Walpole, R. Statistics (1980), Collier Macmillan.
9. Ray, Debraj (1998), Development Economics, OUP

Semester- II

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Elective Courses (Stream 2.I)

(One course to be opted)

Detailed Syllabus

Course No: P2ECTE203

Title: Demography

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

b) Minor Tests- I & II: 20 each (Duration: 1hr)

Duration of Major Examination: 2:30 hrs

Demography

Syllabus for the Examination to be held in May 2026, 2027 and 2028

- Course Outcome: To make the students aware of importance of population in economic development, various theories of population, growth and distribution of population in developed and developing countries including India.
- To enlighten the students on fertility and mortality aspects of population dynamics.
- To equip the students about general characteristics of the population and its importance.
- To enable the students deals comprehensively with migration and urbanization in context of structural change in the society.
- To impart a comprehensive knowledge of various theories that explains growth of population in a country and other aspects as migration and urbanization.
- To train the students to understand demographic data base in India, methodology and characteristics of census, population and development with reference to India and various issues related to population policy of India.

UNIT – I: Theories and Structure of Population

Demography; Meaning, Scope, Theories of population – Malthu's theory, Optimum theory of population; Theory of demographic transition, Leibenstien's theory; Population and development: Two way relationship; World population growth and distribution; Pattern of age and sex structure in more developed and less developed countries; Determinants of age and sex structure in more developed and less developed countries; Demographic, economic and social implications of sex and age structure in more developed and less developed countries

UNIT – II: Fertility, Mortality, Migration and Urbanization

Fertility; Concepts, Importance, Factors (determinants); Levels and trends in fertility in more and less developed countries; Mortality: Concepts, Importance, Factors (determinants); Levels and trends in mortality in more and less developed countries; Migration: Concept, Laws, its effects on population dynamics, Its determinants; Urbanization: Concept, Its Impacts; Growth and distribution of rural-urban population in developed and developing countries

Semester- II

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Elective Courses (Stream 2.I)

(One course to be opted)

Detailed Syllabus

Course No: P2ECTE203

Title: Demography

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

b) Minor Tests- I & II: 20 each (Duration: 1hr)

Duration of Major Examination: 2:30 hrs

Demography

Syllabus for the Examination to be held in May 2026, 2027 and 2028

UNIT – III: Demographic Data and Population Structure in India

Concept, methodology and characteristics of census in India; Nature of information collected in 2011 census of India; National Family Health Survey; Rapid Household Survey; Population growth and distribution in India; Demographic dividend in India; Fertility and mortality trends in India; Trends and regional variations in age and sex structure of population in India, Appraisal of Kerala model; Pattern of internal migration and urbanization in India.

UNIT – IV: Population-Development Issues and Policy in India

Population, economy and environment linkages; Population, health, nutrition, productivity nexus; Population and human development issues; Relationship between culture, education and fertility; Evolution of population policy in India; Family planning strategies and their outcomes; Reproductive health, maternal nutrition and child health policies; New population policy

Note for Paper Setting: Minor Test -I and Minor Test - II each of 20 marks from Unit

Test I and Test II: The Subjective Test of Test I and Test II consist of three short answer type questions (05 marks each). Students are required to answer two questions. (5*2=10 & 10 MCQs=20)

The Subjective Test of Test II consist of three short answer type questions (05 marks each). Students are required to answer two questions. (5*2=10 & 10 MCQs=20)

No preparatory holidays shall be provided for the Test I and Test II. Those candidates who have appeared in Test I and Test II and failed to get the minimum required marks i.e. **14 out of 40 will be eligible to re-appear in the Test I and Test II only once.**

Major Test: The Major test will comprise two sections, Section-A and Section-B. Section-A will have one compulsory question comprising of **10 parts (minimum 02 from each unit) of 03 marks each.** Section B will have **04 questions of 15 marks each to be set from the last two units (02 from each unit).** In Section B students are required to attempt 01 question from each unit. **In major test there should not be a gap of more than two days in between two tests.**

Semester- II

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Elective Courses (Stream 2.I)

(One course to be opted)

Detailed Syllabus

Course No: P2ECTE203

Title: Demography

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

b) Minor Tests- I & II: 20 each (Duration: 1hr)

Duration of Major Examination: 2:30 hrs

Demography

Syllabus for the Examination to be held in May 2026, 2027 and 2028

Basic Reading List

- Agarwala S. N. (1972), *India's Population Problem*, Tata McGraw-Hill Co., Bombay.
- Agnihotri, S. B. (2000), *Sex ratio in Indian Population: A Fresh Exploration*, Sage, New Delhi.
- Amsden, A. H. (ed.) (1980), *The Economics of Women and Work*, Penguin, Harmondsworth.
- Baud, I. S. A. (1992), *Form of Production and Women's Labour; Gender Aspects of Industrialization in India and Mexico*, Sage, New Delhi.
- Bogue, D. J. (1971), *Principles of Demography*, John Wiley, New York.
- Bose, A. (1996), *India's Basic Demographic Statistics*, B. R. Publishing Corporation, New Delhi.
- Boserup, E. (1970), *Women's Role in Economic Development*, George Allen and Unwin, London
- Chenery H. and T. N. Srinivasan (Eds.) (1989), *Handbook of Development Economics*, Vol. 1&2 Elsevier, Amsterdam.
- Choubey, P. K. (2000), *Population Policy in India*, Kanishka Publications, New Delhi.
- Coale A. J. and E. M. Hoover (1958), *Population Growth and Economic Development in Low Income Countries: A Case Study of India's Prospects*, Princeton University Press, Princeton.
- Gulati, S. C. (1988), *Fertility in India: An Econometric Study of a Metropolis*, Sage, New Delhi.
- Gupta, J. A. (2000), *New Reproduction Technologies, Women's Health and Autonomy, Indo-Dutch Studies on Development Alternatives*, Sage, New Delhi.
- Jhabwala, R. and R. K. Subramanya (2000) (eds.), *The Unorganized Sector: Work Security and Social Protection*, Sage, New Delhi.
- King, M. and M. A. Hill (eds.) (1993), *Women's Education in Developing Countries: Barriers Benefits and Politics*, John Hopkins, Baltimore.
- Krishnaji, M., R. M. Sudarshan and A. Shariff (1999), *Gender Population and Development*, Oxford University Press, New Delhi.
- Mishra, S. (2000), *Voluntary Action in Health and Population: The Dynamics of Social Transition*, Sage, New Delhi.
- Mitra, A. (1979), *Implications of Declining Sex Ratio in India's Population*, Allied, New Delhi.
- Seth, M. (2000), *Women and Development: The Indian Experience*, Sage, New Delhi.
- Simon, J. L. (1992), *Population and Development in Poor Countries*, Princeton University Press.
- Srinivasan, K. (1998), *Basic Demographic Techniques and Applications*, Sage, New Delhi.
- Srinivasan, K. and A. Shariff (1998), *India: Towards Population and Demographic Goals*, Oxford University Press, New Delhi.
- Stryck, H. et al. (1973), *The Methods and Materials of Demography*, US Department of Commerce, Washington, D. C.
- Sudarshan and A. Shariff (1999), *Gender Population and Development*, Oxford University Press, New Delhi.

- United Nations (1973), *The Determinants and Consequences of Population Trends*, Vol. 1, UNO Publications, New Delhi.

Semester- II

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Elective Courses (Stream 2.I)

(One course to be opted)

Course No: P2ECTE204

Title: Industrial Economics

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

b) Minor Tests- I & II: 20 each

(Duration: 1hr)

Duration of Major Examination: 2:30 hrs

Industrial Economics

Syllabus for the Examination to be held in May 2026, 2027 and 2028

- **Course Outcome:** To have a detailed knowledge about the Framework and Problems of Industrial Economics.
- To familiarize with the Market Structure, Innovations & Industrial Location Analysis.
- To acquire the ability to analyse Market Conduct & Its Implications for Public Policies.
- To understand and distinguish the concepts of Industrial Productivity, Industrial Efficiency.
- To Understand about the Investment Decisions and Methods of the Project Evaluation.

UNIT- I: Framework and Problems of Industrial Economics

Meaning and scope of Industrial economics, The organizational pattern of the firm on the basis of ownership, Internal Organization of the firm, The Choice of organizational form, Business motives- Profits, Sales growth and value maximization of the firm . Size of the form optimum firm, Representative firm, Equilibrium firm, factors determining optimum size, reconciliation of optima. Need for the growth of the Firm, Theories of the growth of the firm: Downie's theory, Penros's theory, Marris's theory of the growth of the firm.

UNIT- II: Market Structure

Market structure: Meaning of the market structure, sellers concentration and its measurement : concentration ratio, the Lorenz curve, Herfindhal Index. Product differentiation- its sources and its implications, entry conditions, economies of scale, market structure and innovation, the process of innovation- concept and relationship-its measurement. The theory of technological innovation. Industrial location analysis: the general determinants of industrial location. Theories of industrial location – Alfred Weber, August Losch and Paul Krugmans theory of industrial location.

Semester- II

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Elective Courses (Stream 2.I)

(One course to be opted)

Course No: P2ECTE204

Title: Industrial Economics

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

**b) Minor Tests- I & II: 20 each
(Duration: 1hr)**

Duration of Major Examination: 2:30 hrs

Industrial Economics

Syllabus for the Examination to be held in May 2026, 2027 and 2028

UNIT –III: Market Conduct

Relationships between structures, conduct and performance, neoclassical developments of the SCP approach. General situations for pricing decisions. Pricing in practice: cost plus pricing, , transfer pricing ,incremental cost pricing, the target rate of return pricing, acceptance pricing, the going rate pricing, pricing in public enterprises, Diversification & its measurement, vertical integration, Merger: types and motives, Implications for public policies.

UNIT -IV: Market Performance and Project appraisal

Industrial productivity: its importance, distinction between production and productivity, factors influencing industrial productivity, Industrial efficiency: meaning of the concept, the determinants of the economic efficiency, measurement of the efficiency levels, investment decisions, preparation of the time profile of the project, methods of the project evaluation: the payback method, the average of accounting rate of return method, the internal rate of return method, ranking of projects; NPV VS IRR.

Note for Paper Setting:: Minor Test -I and Minor Test - II each of 20 marks from each Unit

Test I and Test II: The Subjective Test of Test I and Test II consist of three short answer type questions (05 marks each). Students are required to answer two questions. (5*2=10 &10 MCQs=20)

The Subjective Test of Test II consists of three short answer type questions (05 marks each). Students are required to answer two questions. (5*2=10 &10 MCQs=20)

No preparatory holidays shall be provided for the Test I and Test II. Those candidates who have appeared in Test I and Test II and failed to get the minimum required marks i.e. **14 out of 40 will be eligible to re-appear in the Test I and Test II only once.**

Semester- II

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Elective Courses (Stream 2.I)

(One course to be opted)

Course No: P2ECTE204

Title: Industrial Economics

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

b) Minor Tests- I & II: 20 each

(Duration: 1hr)

Duration of Major Examination: 2:30 hrs

Industrial Economics

Syllabus for the Examination to be held in May 2026, 2027 and 2028

Major Test

The Major test will comprise two sections, Section-A and Section-B. Section-A will have one compulsory question comprising of **10 parts (minimum 02 from each unit) of 03 marks each**. Section B will have **04 questions of 15 marks each to be set from the last two units (02 from each unit)**. In Section B students are required to attempt 01 question from each unit. **In major test there should not be a gap of more than two days in between two tests.**

Basic Reading List

1. Alhuwalia I.J. (1985), Industry in India, Oxford University press, New Delhi.
2. Barthwal, R. R. (1985) Industrial Economics, Wiley Eastern:
3. Cherunilam, F. (1994) Industrial Economics: Indian Perspective (3rd edition), Himalayan Publishing house, Mumbai.
4. Desai, B. (1999), Industrial Economy in India (3rd edition), Himalayan Publishing House, Mumbai
5. Divine, P.J and R. M. Jones et al. (1976), an introduction to Industrial Economics, Georg Allen and Unwin Ltd., London.
6. Government of India, Economic Survey (annual).
7. Hay, D. and D.J. Morris (1979), Industrial Economics: theory and Evidence, oxford university press, New Delhi.
8. Kuchhal, S.C. (1980), Industrial Economy of India (5th edition), Chaitanya Publishing House, Allahabad.
9. Reserve Bank of India, Report on Currency and Finance (annual).
10. Singh, A. and A. N. Sadhu (1988), Industrial Economics; Himalayan Publishing House, Bombay.
11. Paul.R. Ferguson and Glenys J. Ferguson (1994) second edition, macmalian press Ltd.
12. Institute of railway transport, Investment policy.
13. Visaria, P. and R. Basant (1994), Non-agricultural employment in India: Trends and prospects, Sage Publications, New Delhi.

Semester- II
Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Elective Courses (Stream 2.I)

(One course to be opted)

Course No: P2ECTE205

Title: Transport Economics

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

b) Minor Tests- I & II: 20 each

(Duration: 1hr)

Duration of Major Examination: 2:30 hrs

Transport Economics

Syllabus for the Examination to be held in May 2026, 2027 and 2028

- **Course outcome:** To have a detailed knowledge about the Framework and Problems of Industrial Economics.
- To familiarize with the Market Structure, Innovation & Industrial Location Analysis.
- To acquire the ability to analyse Market Conduct & Its Implications for Public Policies.
- To understand and distinguish the concepts of Industrial Productivity, Industrial Efficiency.
- Understand about the Investment Decisions and Methods of the Project Evaluation.

UNIT- I: Introduction to Transport Economics

Nature and scope of transport economics; Economic Characteristics of Transport; Demand for Transport Services: Passenger & Freight; Factors determining the Demand for Transport Services; Transport Investments and Economic Development: Empirical Evidence; Understanding the Multiplier Effects of Transport Investments.

UNIT- II: Costs of Transport Services

Structure of Transport Costs: Concept of Shared & Avoidable Costs and the process of their identification, Pro-rata Rules for the Allocation of Common Costs; Capital Cost in Transport and the Process of its Recovery; Transport Costs and Location of Industries: Weber's Theory of Location.

UNIT- III: External Costs of Transport

Transport Externalities and their Valuation; Optimal Environmental Improvements; Introduction to Traffic Congestion; Containing the Environmental Costs: Transport Infrastructure User Charges; Coasian Solution- Tradeable Permits; 'The Polluter- Pays' Principle.

Semester- II

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Elective Courses (Stream 2.I)

(One course to be opted)

Course No: P2ECTE205

Title: Transport Economics

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

**b) Minor Tests- I & II: 20 each
(Duration: 1hr)**

Duration of Major Examination: 2:30 hrs

Transport Economics

Syllabus for the Examination to be held in May 2026, 2027 and 2028

UNIT- IV: Pricing of Transport Services

Objectives of Pricing in Transport; Alternative Pricing Strategies: Profit Maximizing, Social Welfare Maximizing, and Constrained Social Welfare Maximizing; the Concept of Cross- Subsidy and Cross-Subsidy-Free Price; Rationale of Subsidy to Support Public Transport Services in Urban Areas: Theory & Application; Marginal Cost Pricing: Short-Run & Long-Run; Price Differentiation & Price Discrimination.

Note for Paper Setting: Minor Test -I and Minor Test - II each of 20 marks from each Unit

Test I and Test II: The Subjective Test of Test I and Test II consist of three short answer type questions (05 marks each). Students are required to answer two questions. (5*2=10 & 10 MCQs=20)

The Subjective Test of Test II consist of three short answer type questions (05 marks each). Students are required to answer two questions. (5*2=10 & 10 MCQs=20)

No preparatory holidays shall be provided for the Test I and Test II. Those candidates who have appeared in Test I and Test II and failed to get the minimum required marks i.e. **14 out of 40 will be eligible to re-appear in the Test I and Test II only once.**

Major Test: The Major test will comprise two sections, Section-A and Section-B. Section-A will have one compulsory question comprising of **10 parts (minimum 02 from each unit) of 03 marks each**. Section B will have **04 questions of 15 marks each to be set from the last two units (02 from each unit)**. In Section B students are required to attempt 01 question from each unit. **In major test there should not be a gap of more than two days in between two tests.**

Basic Reading List

1. Kenneth Button, Transport Economics, 3rd Edition by, Published by Edward Elgar.

2. David A.Hensher & Ann M. Brewer, Transport: An Economics and Management Perspective, Published by Oxford University Press.
3. Norton H.S., Modern Transport Economics.
4. Quinet Emile & Roger Vickerman (2004), Principles of Transport Economics, Edward Elgar

Semester- II

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Elective Courses (Stream 2.I)

(One course to be opted)

Course No: P2ECTE206

Title: Econometrics-I

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

**b) Minor Tests- I & II: 20 each
(Duration: 1hr)**

Duration of Major Examination: 2:30 hrs

Econometrics- I

Syllabus for the Examination to be held in May 2026, 2027 and 2028

- **Course Outcome:** To gain knowledge about the application of economic theory and understand various economic relationships and econometrics methods.
- To learn various tools for understanding applied economic relationships and for meaningful research in economics.
- To equip the students with basic theory of econometrics and relevant applications of the methods.

To analyse and get equipped with various problems faced in estimation of both single equation and simultaneous equations methods

UNIT- I: Basic Econometrics

Nature, meaning and scope of econometrics, distinction between Statistics and Econometrics; two variable linear regression model-assumption, estimation through OLS, properties of estimators-Gauss-Markov theorem. Concept and derivation of R square and adjusted R square concept of analysis of variance approach General linear regression model - assumptions, estimation and properties of estimators . Deviation from classical linear regression assumption (non-spherical case) and generalized least square.

UNIT - II: Problems of Regression Analysis

Problems of heteroscedasticity, autocorrelation and multicollinearity- Nature, test, consequences and remedial measures. Model mis-specification versus pure autocorrelation, OLS versus FGLS and HAC coexistence of autocorrelation and heteroskedasticity.

UNIT - III: Specification and Diagnostic Testing and Non-Linear Regression Models

Specification - Type consequences, and tests; nested versus non-nested models Recursive least square, Chow prediction failure test. Nonlinear regression - trial and error method, direct optimization, iterative linearization.

Semester- II
Syllabi of Economics for Two Year P.G Programme as per NEP 2020
Elective Courses (Stream 2.I)
(One course to be opted)

Course No: P2ECTE206

Title: Econometrics-I

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

b) Minor Tests- I & II: 20 each
(Duration: 1hr)

Duration of Major Examination: 2:30 hrs

Econometrics- I

Syllabus for the Examination to be held in May 2026, 2027 and 2028

UNIT- IV: Regression with Qualitative Variables and Other Techniques

Dummy Variable : Testing structural stability of regression models. Dummy variable trap Regression with dummy dependent variables - LPM, Logit, grouped LOGIT, LOGIT for ungrouped and individual data, Probit and Tabit models their application. Modeling count data, poisson model.

Note for Paper Setting: Minor Test -I and Minor Test - II each of 20 marks from each Unit

Test I and Test II: The Subjective Test of Test I and Test II consist of three short answer type questions (05 marks each). Students are required to answer two questions. (5*2=10 & 10 MCQs=20)
The Subjective Test of Test II consist of three short answer type questions (05 marks each). Students are required to answer two questions. (5*2=10 & 10 MCQs=20)

No preparatory holidays shall be provided for the Test I and Test II. Those candidates who have appeared in Test I and Test II and failed to get the minimum required marks i.e. **14 out of 40 will be eligible to re-appear in the Test I and Test II only once.**

Major Test: The Major test will comprise two sections, Section-A and Section-B. Section-A will have one compulsory question comprising of **10 parts (minimum 02 from each unit) of 03 marks each.** Section B will have **04 questions of 15 marks each to be set from the last two units (02 from each unit).** In Section B students are required to attempt 01 question from each unit. **In major test there should not be a gap of more than two days in between two tests.**

Basic Reading List

1. Baltagi, B.H.(1998). Econometrics, Springer, New York.
2. Chow, G.C. (1983). Econometrics, McGraw Hill, New York.
3. Goldberger, A.S. (1998). Introductory Econometrics, Harvard University Press, Cambridge, Mass.
4. Green, W. (2000). Econometrics, Prentice Hall of India, New Delhi.

Semester- II

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Elective Courses (Stream 2.I)

(One course to be opted)

Course No: P2ECTE206

Title: Econometrics-I

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

**b) Minor Tests- I & II: 20 each
(Duration: 1hr)**

Duration of Major Examination: 2:30 hrs

Econometrics- I

Syllabus for the Examination to be held in May 2026, 2027 and 2028

5. Gujarati, D.N. (1995). Basic Econometrics (2nd Edn.). McGraw Hill, New Delhi.
6. Johnston, J. (1991). Econometrics, Methods (3rd Edn.). McGraw Hill, London.
7. Koutsoyiannis, A. (1977). Theory of Econometrics (2nd Edn.). The Macmillan Press Ltd. London.
8. Maddala, G.S. (1997). Econometrics, McGraw Hill; New York.
9. Theil, H.(1981). Introduction to Econometrics, Prentice Hall of India, New Delhi.

Semester- II
Syllabi of Economics for Two Year P.G Programme as per NEP 2020
Elective Courses (Stream 2.I)
(One course to be opted)

Course No: P2ECTE207

Title: Agricultural Economics

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

b) Minor Tests- I & II: 20 each
(Duration: 1hr)

Duration of Major Examination: 2:30 hrs

Agricultural Economics

Syllabus for the Examination to be held in May 2026, 2027 and 2028

Course outcome: Able to get the factual knowledge about the nature and scope of agriculture economics.

- Able to understand the different models for agricultural development and price and marketing of agricultural products.
- Able to identify and provide solution to different risks and uncertainty involved in agriculture sector.
- Able to comprehend production function analysis and its application in agriculture.
- Able to get the factual knowledge about the concept of agriculture marketing and estimation of marketing efficiency.

UNIT - I: Agriculture Economics - Nature and Scope

Nature and Scope of Agricultural Economics; Role of agriculture in economic development, contribution of land, capital and labour in agricultural development; Different types of farming; Risk and Uncertainty in agriculture sources, expectation and variation measures to control farm risk; Supply and demand behavior in agriculture; Farm mechanization, Land Reforms -theoretical explanation.

UNIT -II: Agriculture and Economic Development

Changing phases of agriculture in economic development; Basic models for agricultural development- Schultz's transformation of traditional agriculture model. Lewis's unlimited supply of labour model, Fei-Ranis model of agricultural growth, Mellor's model of agricultural development, Jorgenson's Model of dual economy, Boserup's model of agricultural development; Interdependence between agriculture and industry-some empirical evidence; Complementarity between agriculture and industry.

Semester- II

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Elective Courses (Stream 2.I)

(One course to be opted)

Course No: P2ECTE207

Title: Agricultural Economics

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

b) Minor Tests- I & II: 20 each

(Duration: 1hr)

Duration of Major Examination: 2:30 hrs

Agricultural Economics

Syllabus for the Examination to be held in May 2026, 2027 and 2028

UNIT -III: Agricultural Production and Productivity

Agricultural Production-Resource use and Efficiency; Production function analysis in agriculture; factor combination and resource substitution; Firm size, production and Productivity; Laws of returns- theoretical and empirical findings-factor-product, factor-factor and product –product relationships; Costs and profits in agriculture; Farm budgeting and programming:

UNIT -IV: Agriculture Marketing, Prices and Development

Agricultural Marketing - functions and marketing efficiency, Classification of marketing, Approaches to Marketing efficiency estimation, Approaches to the study of marketing; Marketing channels- Marketing costs and Margins, Estimation of price spread, reasons for higher marketing cost of agricultural products; Difference between Marketable surplus and Marketed surplus; factors affecting marketable surplus and measure to increase marketable surplus- state policy with respect to agricultural marketing, Terms of trade between agricultural and non – agricultural prices, need for State intervention; Development of agriculture through Agri-preneurs, Contract farming and E-marketing

Note for Paper Setting: Minor Test -I and Minor Test - II each of 20 marks from each Unit

Test I and Test II: The Subjective Test of Test I and Test II consist of three short answer type questions (05 marks each). Students are required to answer two questions. (5*2=10 &10 MCQs=20)

The Subjective Test of Test II consist of three short answer type questions (05 marks each). Students are required to answer two questions. (5*2=10 &10 MCQs=20)

No preparatory holidays shall be provided for the Test I and Test II. Those candidates who have appeared in Test I and Test II and failed to get the minimum required marks i.e. **14 out of 40 will be eligible to re-appear in the Test I and Test II only once.**

Major Test: The Major test will comprise two sections, Section-A and Section-B. Section-A will have one compulsory question comprising of **10 parts (minimum 02 from each unit) of 03 marks each.** Section B will have **04 questions of 15 marks each to be set from the last two units (02 from each unit).** In Section B students are required to attempt 01 question from each unit. **In major test there should not be a gap of more than two days in between two tests.**

Semester- II

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Elective Courses (Stream 2.I)

(One course to be opted)

Course No: P2ECTE207

Title: Agricultural Economics

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

b) Minor Tests- I & II: 20 each

(Duration: 1hr)

Duration of Major Examination: 2:30 hrs

Agricultural Economics

Syllabus for the Examination to be held in May 2026, 2027 and 2028

Basic Reading List

1. Bhaduri, A. (1984), The Economic Structure of Backward Agriculture, Macmillan, Delhi.
2. Bilgrami, S.A.R. (1996), Agricultural Economics, Himalaya Publishing House, Delhi.
3. Dantwala, M.L. et, al. (1991), Indian Agricultural Development Science Independence, Oxford & IBH, New Delhi.
4. Government of India (1976), Report of the National Commission on Agriculture, New Delhi.
5. Government of India, Economic Survey (Annual), New Delhi.
6. Gulati, A., and T. Kelly (1999) Trade Liberalisation and Indian Agriculture, Oxford University Press, New Delhi.
7. Joshi, P.C. (1975), Land Reforms in India: Trends and prospects, Allied Publishers, Bombay.
8. Kahlon, A.S. and Tyagi D.S. (1983), Agriculture Price Policy in India, Allied Publishers, New Delhi.
9. Rao, C.H. Hanumantha (1975), Agricultural Growth, Rural Poverty and Environmental Degradation in India, Oxford University Press, New Delhi.
10. Reserve Bank of India, Report on Currency and Finance (Annual), Mumbai.
11. Rudra, A, (1982), Indian Agricultural Economics: Myths and reality, Allied Publishers. New Delhi.
12. Stini, G.R. (1979), Farm Size. Resource Use Efficiency and Income Distribution, Allied Publishers, New Delhi.
13. Papola, T.S. (1982), Rural Industrialization in India, Himalaya Publishing House, Bombay.
14. Soni, R.N. (1995), Leading Issues in Agricultural Economics, Arihant Press, Jalandhar.
15. Wanmali S. and Ramasamy (Eds.) (1995), Developing Rural Infrastructure. Macmillan, New Delhi.
16. Appu, P.S. (1996), Land Reforms in India, Vikas, New Delhi.
17. Bardhan, P. (1984), Land, Labour and Rural Poverty, Oxford University Press, New Delhi.
18. Brahmananda, P.R. and V.R. Panchumukhi (Eds.)(1987), The Development Process of the Indian Economy, Himalaya Publishing House, Bombay.
19. Chadha, G.K. and A.N. Sharma (1997), Growth, Employment and Poverty: Change and Continuity in Rural India, Vikas Publishing, New Delhi.
20. Chakarvarty, S. (1987), Development Planning: The Indian Experience, Oxford University Press, New Delhi.
21. Raglivan and L. Sarkar (Eds.) (1996), Poverty and Employment, New Age, New Delhi.

Semester- II

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Elective Courses (Stream 2.I)

(One course to be opted)

Course No: P2ECTE208

Title: Economics of Innovation

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

**b) Minor Tests- I & II: 20 each
(Duration: 1hr)**

Duration of Major Examination: 2:30 hrs

Economics of Innovation

Syllabus for the Examination to be held in May 2026, 2027 and 2028

- **Course outcome:** To examine the drivers of innovation and its contribution to the growth of firms, industries, and economies.
- To explore the links between intellectual property rights and innovation and growth.
- To apply tools and concepts from microeconomics, macroeconomics, and theory with empirical analysis drawn from the Developed and Developing World
- To introduce students of economic policy to the processes that drive innovation.
- To explore the role of the state in investing in research and development as well as in creating a strong intellectual property regime and the impact it has in creating incentives to innovate.
- To understand the social returns of innovation and its impact on the nature and magnitude of employment as well as the legal issues surrounding international treaties on intellectual property.

UNIT – I: Innovation and its Measurement

The Nature and Importance of Innovation- Definitions. The Microeconomic Effects of Innovation- Interaction between producers and users of Innovation. Innovations and Market Failure. Restoring Incentives to Invent and Innovate- Firms Competing through Innovation, The Nature and Role of Intellectual Property- Definitions, Why Are Intellectual Property Rights Awarded? Types of IPRs, The Measurement of Innovation, Productivity, and Growth- How Can Innovation Be Measured? Productivity at the Firm, Industry, and Economy Level. Comparing Productivity and Growth across Countries

UNIT II : National Innovation System and Intellectual Property Rights

The National Innovation System- The Central Role of R&D - The Government-University Axis - The University-Business Axis- The Government-Business Axis- National Innovation Systems in Emerging Markets and India, Innovative Firms and Markets - Entrepreneurship and New Firms- Innovation and Firms- Markets and Innovation- Empirical Evidence on the Returns to Innovation - Evidence on Interactions between Competition and Innovation, Intellectual Property Rights and Firms- How Can Firms Benefit from IPRs? Exploring the Returns to IPRs - Markets for IPRs. Costs of Obtaining and Enforcing IPRs- IPR Strategies, Empirical Studies on the Value of IPRs, Diffusion and Social Returns -Modeling the Rate of Adoption of an Innovation- Statistical Evidence on Rates of Adoption- Spillovers and Social Returns to Innovation- Empirical Studies of Social Returns- Spatial Dimensions of Spillovers

Semester- II

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Elective Courses (Stream 2.I)

(One course to be opted)

Course No: P2ECTE208

Title: Economics of Innovation

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

**b) Minor Tests- I & II: 20 each
(Duration: 1hr)**

Duration of Major Examination: 2:30 hrs

Economics of Innovation

Syllabus for the Examination to be held in May 2026, 2027 and 2028

UNIT– III: Macroeconomics of Innovation

The Macroeconomics of Innovation - Models of Economic Growth- The Neoclassical Growth Model, Endogenous Growth Models, Evolutionary and Other Models Innovation and Globalization-definitions, World Trade in Historical Perspective, Theories of Trade and Growth, International Knowledge and Technology Flows: Theory and Evidence, International Financial Flows, International Aspects of IPRs Technology, Wages, and Jobs -Microeconomic Models of Innovation and Labor Markets, Innovation and Labor Markets: Evidence from Firms, Macroeconomic and Trade Models of Innovation and Labour Markets

UNIT – IV: Economic Policies and Innovation

Economic Policy -Microeconomic Policies to Promote Firm-Level Innovation- Is the Intellectual Property System Working? Incentive Systems for Encouraging Firm-Level R&D, Other Innovation Policies, Macroeconomic Issues and Policy- Macroeconomic Evidence on IPRs and Economic Growth. Trade-Related Aspects of Intellectual Property (TRIPS), Intellectual Property Rights, Exhaustion, and Parallel Imports, Piracy and Counterfeit, R&D in the Global Economy, International Migration of Skilled Labor
Note for Paper Setting: Minor Test -I and Minor Test - II each of 20 marks from each Unit

Test I and Test II: The Subjective Test of Test I and Test II consist of three short answer type questions (05 marks each). Students are required to answer two questions. (5*2=10 & 10 MCQs=20) The Subjective Test of Test II consist of three short answer type questions (05 marks each). Students are required to answer two questions. (5*2=10 & 10 MCQs=20) **No preparatory holidays shall be provided for the Test I and Test II.** Those candidates who have appeared in Test I and Test II and failed to get the minimum required marks i.e. **14 out of 40 will be eligible to re-appear in the Test I and Test II only once.**

Major Test: The Major test will comprise two sections, Section-A and Section-B. Section-A will have one compulsory question comprising of **10 parts (minimum 02 from each unit) of 03 marks each.** Section B will have **04 questions of 15 marks each to be set from the last two units (02 from each unit).** In Section B students are required to attempt 01 question from each unit. **In major test there should not be a gap of more than two days in between two tests.**

Semester- II

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Elective Courses (Stream 2.I)

(One course to be opted)

Course No: P2ECTE208

Title: Economics of Innovation

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

**b) Minor Tests- I & II: 20 each
(Duration: 1hr)**

Duration of Major Examination: 2:30 hrs

Economics of Innovation

Syllabus for the Examination to be held in May 2026, 2027 and 2028

Basic Reading List

1. Greenhalgh, C. and Rogers, M (2008) Innovation, Intellectual Property and Economic Growth, Princeton University Press
2. Schumpeter, J.A. (1943) Capitalism, Socialism and Democracy. Routledge, 6th Ed.
3. Antonelli, C. (2003). The Economics of Innovation, New Technologies and Structural Change. Routledge.
4. Antonelli, C. (2003). The Economics of Innovation, New Technologies, and Structural Change. Routledge.
5. Ahlstrom, D. (2010). Innovation and Growth : How Business Contributes Society; Academy of Management Perspectives, Vol.24, Issue 3, Pp. 11-24
6. Antonelli, C. (2003). The Economics of Innovation, New Technologies, and Structural Change. Routledge. 210 pgs.
7. Peilei, F. (2011). Innovation capacity and economic development: China and India. Economic Change and Restructuring, Vol.44. Issue 1/ 2 Pp.49-73
8. Economic Change and Restructuring, Vol.44. Issue 1/ 2 Pp.49-73

Semester- II

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Elective Courses (Stream 2.I)

(One course to be opted)

Course No: P2ECTE209

Title: Environmental Economics

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

**b) Minor Tests- I & II: 20 each
(Duration: 1hr)**

Duration of Major Examination: 2:30 hrs

Environmental Economics

Syllabus for the Examination to be held in May 2026, 2027 and 2028

- **Course Outcome** To make the students aware of importance of economy, environment and economic growth and future of economic growth and sustainable development.
- To enlighten the students on the theory of environmental externalities and resource allocation, property rights and allocation of non-renewable resources.
- To develop comprehensive skills in environmental valuation techniques, ecological economics and sustainability.
- To train the students to pursue research and writing on environment and development issues.
- To equip the students to understand and apply environmental accounting and resource flow analysis in future research and writing.

UNIT – I: Economy, Environment and Economic Growth

Environmental Economics: Basic Concepts; Changing Perspectives on the Environment Economics and the Environment; Approaches in Addressing Natural Resource and Environmental Economics; A Framework for Understanding the Ecological Perspective; Environmental Microeconomics and Macroeconomics; History of Economic Growth and the Environment; Recent Economic Growth and the Environment; Future of Economic Growth and the Environment; Sustainable Development

UNIT – II: Environmental Externalities and Resource Allocation

External Costs and Benefits; Positive Externalities; Welfare Analysis of Externalities; Property Rights and Coase Theorem; Common Property Resources and Public Goods; Common Property, Open Access, and Property Rights; Environment as a Public Good; Global Commons; Allocation of Nonrenewable Resources; Hotelling's Rule and Time Discounting

UNIT – III: Valuing the Environment and Sustainability

Cost-Benefit Analysis; Techniques of Valuation; Balancing Present and the Future: The Discount Rate; Dealing with Risk and Uncertainties; Comparing Costs and Benefits; Ecological Economics: Basic Concepts; Natural Capital; Issues of Macroeconomic Scale; Long-Term Sustainability

Semester- II

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Elective Courses (Stream 2.II)

(One course to be opted)

Course No: P2ECTE209

Title: Environmental Economics

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

**b) Minor Tests- I & II: 20 each
(Duration: 1hr)**

Duration of Major Examination: 2:30 hrs

Environmental Economics

Syllabus for the Examination to be held in May 2026, 2027 and 2028

UNIT – IV: Environmental Accounting and Resource Flow

Greening the National Income Accounts; Environmentally Adjusted Net Domestic Product; Adjusted Net Savings; Genuine Progress Indicator; Better Life Index; Environmental Asset Accounts; Modeling Economic and Ecological Systems; Energy and Resource Flow Analysis; Input-Output Analysis

Note for Paper Setting: Minor Test -I and Minor Test - II each of 20 marks from each Unit

Test I and Test II: The Subjective Test of Test I and Test II consist of three short answer type questions (05 marks each). Students are required to answer two questions. (5*2=10 & 10 MCQs=20)

The Subjective Test of Test II consist of three short answer type questions (05 marks each). Students are required to answer two questions. (5*2=10 & 10 MCQs=20)

No preparatory holidays shall be provided for the Test I and Test II. Those candidates who have appeared in Test I and Test II and failed to get the minimum required marks i.e. **14 out of 40 will be eligible to re-appear in the Test I and Test II only once.**

Major Test: The Major test will comprise two sections, Section-A and Section-B. Section-A will have one compulsory question comprising of **10 parts (minimum 02 from each unit) of 03 marks each**. Section B will have **04 questions of 15 marks each to be set from the last two units (02 from each unit)**. In Section B students are required to attempt 01 question from each unit. **In major test there should not be a gap of more than two days in between two tests.**

Basic Reading List

1. Bhattacharaya, Ravindra, 2002, Environmental Economics, Oxford University Press, New Delhi.
2. Boumal, W.J. and W.E. Oates (1988), The Theory of Environmental Policy, Cambridge University Press, Cambridge.
3. Bromely D.W. (Ed.) (1995), Handbook of Environmental Economics, Blackwell, London.
4. Fisher, A.C. (1981), Resource and Environmental Economics, Cambridge University Press, Cambridge.

5. Hanley, N., J.F. Shogern and B. White (1997), Environmental Economics in Theory and Practice, Macmillan, London.

Semester- II

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Elective Courses (Stream 2.II)

(One course to be opted)

Course No: P2ECTE209

Title: Environmental Economics

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

**b) Minor Tests- I & II: 20 each
(Duration: 1hr)**

Duration of Major Examination: 2:30 hrs

Environmental Economics

Syllabus for the Examination to be held in May 2026, 2027 and 2028

6. Hussen, A.N. (1999), Principles of Environmental Economics, Routledge, London.
7. Jeroen, C.J., M. Van Den Bergh (1999), Handbook of Environmental and Resource Economics, Edward Elgar Publishing Limited, U.K.
8. Kolstad, C.D. (1999), Environmental Economics, Oxford University Press, New Delhi.
9. Pearce, D.W. and R. Turner (1991), Economics of Natural Resource Use and Environment, John Hopkins University Press, Baltimore.
10. Pennan, R.M. and J. McGilvary (1996), Natural Resource and Environmental Economics, Longman, London.
11. Sankar U. (Ed.) (2001), Environmental Economics,, Oxford University Press, New Delhi.
12. Tietenberg, T. (1994), Environmental Economics and Policy, Liarper Collins, New York.

Semester- II

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Elective Courses (Stream 2.II)

(One course to be opted)

Course No: P2ECTE210

Title: Financial Economics

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

**b) Minor Tests- I & II: 20 each
(Duration: 1hr)**

Duration of Major Examination: 2:30 hrs

Financial Economics

Syllabus for the Examination to be held in May 2026, 2027 and 2028

Course Outcome:

To study the structure and objectives of the financial market.

To familiarize with the structure of financial market and the contents of financial assets.

To learn basic concepts, functions and tools of the financial market: securities, currency, loans, precious metals and precious stones.

To Understand the challenges of uncertain environment of financial markets, assess them and take appropriate financial and investment decisions.

UNIT-I: Nature and Role of Financial System

Money and finance-Money and near-money-Financial intermediation and Financial Intermediaries - The structure of the financial system - Functions of the financial sector -Indicators of financial development Equilibrium in Financial Markets Financial System and Economic Development types of risk- return on assets,-Risk Return trade off- Valuation of Securities.

UNIT-II: Structure of Interest Rates

Theories of interest rate determination- The Classical Theory, The Loanable Funds Theory, The Keynesian Theory and Modern Theory of Interest; Term Structure of Interest rates-The Expectations Theory, Liquidity Premium Theory, and Market Segmentation Theory - Spread between lending and deposit rates. Administered interest rates - Appropriate interest rate policy.

Semester- II

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Elective Courses (Stream 2.II)

(One course to be opted)

Course No: P2ECTE210

Title: Financial Economics

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

**b) Minor Tests- I & II: 20 each
(Duration: 1hr)**

Duration of Major Examination: 2:30 hrs

Financial Economics

Syllabus for the Examination to be held in May 2026, 2027 and 2028

UNIT -III: The Central Bank, Commercial Bank and Monetary Policy

Functions of Central Bank The aims and objectives of the monetary policy in developing countries - Instruments of monetary policy - Proliferation of banking and non-bank financial intermediaries Effectiveness of monetary policy Profitability and efficiency of banks; Development banks role and functions; Investment banking and merchant banking; Financial sector reforms in India

UNIT -IV: Non-Bank Financial Intermediaries and Financial Markets

Definition and types of non-bank financial institutions- Role and structure of money market and capital market Call money market. Treasury bill market. Commercial bill market including commercial paper and certificate of deposits, Discounts market Government securities market Markets for derivatives: futures and options, and other derivatives types, uses and pricing of derivatives Primary and secondary market for securities; SEBI: its impact on the working of capital market in India: IRDA and its role in financial markets.

Note for Paper Setting:: Minor Test -I and Minor Test - II each of 20 marks from Unit

Test I and Test II: The Subjective Test of Test I and Test II consist of three short answer type questions (05 marks each). Students are required to answer two questions. (5*2=10 & 10 MCQs=20)

The Subjective Test of Test II consist of three short answer type questions (05 marks each). Students are required to answer two questions. (5*2=10 & 10 MCQs=20)

No preparatory holidays shall be provided for the Test I and Test II. Those candidates who have appeared in Test I and Test II and failed to get the minimum required marks i.e. **14 out of 40 will be eligible to re-appear in the Test I and Test II only once.**

Major Test: The Major test will comprise two sections, Section-A and Section-B. Section-A will have one compulsory question comprising of **10 parts (minimum 02 from each unit) of 03 marks**

each. Section B will have **04 questions of 15 marks each to be set from the last two units (02 from each unit)**. In Section B students are required to attempt 01 question from each unit. **In major test there should not be a gap of more than two days in between two tests.**

Semester- II

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Elective Courses (Stream 2.II)

(One course to be opted)

Course No: P2ECTE210

Title: Financial Economics

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

b) Minor Tests- I & II: 20 each

(Duration: 1hr)

Duration of Major Examination: 2:30 hrs

Financial Economics

Syllabus for the Examination to be held in May 2026, 2027 and 2028

Basic Reading List

1. Bhole, L.M. (1999), Financial Institutions and Markets. Tata McGraw Hill Company Ltd New Delhi.
2. Bhole, L.M. (2000), Indian Financial System, Chugh Publications, Allahabad.
3. Edminster, R.O. (1986), Financial Institutions, Markets and Management, McGraw Hill. New York.
4. Goldsmith. R.W. (1969), Financial Structure and Development, Yale, London.
5. Hanson, J.A. and S. Kathuria (Eds.) (1999), India: A Financial Sector for the Twenty-first Century, Oxford University Press, New Delhi.
6. Johnson, H.J. (1993), Financial Institutions and Markets, McGraw Hill, New York.
7. Khan, M.Y. (1996), Indian Financial Systems, Tata McGraw Hill, New Delhi.
8. Machiraju, M.R. (1999), Indian Financial Systems, Vikas Publishing House, New Delhi.
9. Ohlson, J.A. (1987), The Theory of Financial Markets and Institutions, North Holland, Amsterdam.
10. Prasad, K.N. (2001), Development of India's Financial System, Sarup & Sons, New Delhi.
11. Pathak, B V. (2014), The Indian Financial System: Markets, Institutions and Services, Person education, India

Semester- II
Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Elective Courses (Stream 2.II)

(One course to be opted)

Course No: P2ECTE211

Title: Mathematical Economics

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

b) Minor Tests- I & II: 20 each
(Duration: 1hr)

Duration of Major Examination: 2:30 hrs

Mathematical Economics

Syllabus for the Examination to be held in May 2026, 2027 and 2028

Course outcome : To equip students to understand the economic concepts and theories using mathematical tools and techniques to refine verbal logic.

UNIT - I: The Theory of Consumer Behaviour and Production

The Utility Approach, The Indifference Curve Approach, The Slutsky Equation and its generalization to n goods, concepts of elasticities. Cournot aggregation conditions, Engel Aggregation conditions, Linear Expenditure Systems, Treatment of Demand for Durable goods (Houthakker's and Taylor's dynamic models). Properties of Linearly Homogenous Production Functions, Cobb Douglas, CES production functions. Constrained optimization for producers; derivation of input demand functions. Adding up Theorem, production possibility curve, difference and differential equations applied to market equilibrium.

UNIT II: Market Structures

Assumptions of the neoclassical theory of the firm, profit maximization conditions of the classical firm, the perfectly competitive industry. Dynamic Changes vis a vis industry equilibrium. Monopoly: Basic Model: Comparison with perfect competition; Market Discrimination, Dynamic changes vis a vis market equilibrium. The Cournot Model, The Stackelberg Model. Pareto Optimality in a 2 X 2 framework; derivation of Pareto Optimality Conditions, Pareto Optimality under perfect competition, Externalities, The Theory of the Second Best.

UNIT III: Difference Equation and Differential Equations

First Order Difference Equations and Applications, The Cobweb Theorem, The Dynamics of the Multiplier, formalization of Harrods's Model, a single dynamic model of income inflation. Second order equations and applications- Samuelson's Multiplier Accelerator Model; General Principles, First Order Equations, Domar's Model, Neo-classical Growth Model (Solow), Phillips' Stabilization Model for a Closed Economy.

Semester- II

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Elective Courses (Stream 2.II)

(One course to be opted)

Course No: P2ECTE211

Title: Mathematical Economics

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

**b) Minor Tests- I & II: 20 each
(Duration: 1hr)**

Duration of Major Examination: 2:30 hrs

Mathematical Economics

Syllabus for the Examination to be held in May 2026, 2027 and 2028

UNIT-IV: Calculus of Variation and Optimal Control Theory

Dynamic Optimization, Distance between Two Points on a Plane, Euler's Equation and the necessary Condition for dynamic optimization. Finding Candidates for extremals .The Sufficiency Conditions for the calculus of variations. Dynamic Optimization Subject to Functional constraints. Applications to Economics, The Hamiltonian and the Necessary conditions for Maximization in Optimal Control Theory. Sufficiency Conditions for Maximization in Optimal Control. Optimal Control Theory with free Endpoints.

Note for Paper Setting: Minor Test -I and Minor Test - II each of 20 marks from each Unit

Test I and Test II: The Subjective Test of Test I and Test II consist of three short answer type questions (05 marks each). Students are required to answer two questions. (5*2=10 & 10 MCQs=20)

The Subjective Test of Test II consist of three short answer type questions (05 marks each). Students are required to answer two questions. (5*2=10 & 10 MCQs=20)

No preparatory holidays shall be provided for the Test I and Test II. Those candidates who have appeared in Test I and Test II and failed to get the minimum required marks i.e. **14 out of 40 will be eligible to re-appear in the Test I and Test II only once.**

Major Test: The Major test will comprise two sections, Section-A and Section-B. Section-A will have one compulsory question comprising of **10 parts (minimum 02 from each unit) of 03 marks each.** Section B will have **04 questions of 15 marks each to be set from the last two units (02 from each unit).** In Section B students are required to attempt 01 question from each unit. **In major test there should not be a gap of more than two days in between two tests.**

Basic Reading List

1. R.G.D. Allen, Mathematical Economics, Macmillan
2. R.G.D. Allen, Mathematical Analysis for Economists, Macmillan

3. A.C. Chiang, Fundamental Methods in Mathematical Economics, McGraw-Hill
4. A.C. Chiang, Elements of Dynamic Optimization, McGraw-Hill
5. JM Henderson and RE Quandt: Microeconomics- A Mathematical Approach, McGraw

Semester- II

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Elective Courses (Stream 2.II)

(One course to be opted)

Course No: P2ECTE212

Title: Urban & Regional Economics

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

b) Minor Tests- I & II: 20 each (Duration: 1hr)

Duration of Major Examination: 2:30 hrs

Urban Economics & Regional Economics

Syllabus for the Examination to be held in May 2026, 2027 and 2028

- **Course outcome:** To examine the organization of Urban Centers through the lens of economics, where the nature of cities is decided by various economic agents acting in self-interest.

To understand and analyze the role of the government in the various sectors that concern the city and its residents

UNIT - I: Urban Economics and Cities

Introduction and Axioms of Urban Economics. What Is Urban Economics? Definition of a City, The reasons for their existence; The Axioms of Urban Economics, Important Census Definitions. Urban Population, Why Do Cities Exist? Trading Cities, Factory Cities, Innovation Cities, Location Decisions of Firms, Why Do Firms Cluster? Agglomeration Economies, Urbanization Economies, Other Benefits of Urban Size, Learning Opportunities, Social Opportunities, City Size, Benefits and Costs of Bigger Cities, Locational Equilibrium, Land Rent, and Utility within a City. A System of Cities – City Types , A Model of Laboratory Cities, Differences in City Size, Differences in Localization and Urbanization Economies, Local Goods and City Size, Local Employment Amplifies Size Differences, Urban Growth: Issues involved and Case Studies. The Role of Human Capital, Labor and Housing Markets in Shrinking Cities, Public Policy and Equilibrium Employment, Taxes and Firm Location Choices, Public Services and Location Decisions, Subsidies and Incentive Programs, Environmental Quality and Employment, Regional Context of Urban Growth, The Neoclassical Model, Differences in Natural Advantage Cause Concentration, A Decrease in Transport Costs Causes Regional Dispersion, Regional Concentration and Dispersion in the United States

UNIT -II: Urban Rent and Spatial Distribution of Population

Urban Land Rent – Issues involved with different agents/sectors, Factor Substitution: Choosing a Building Height, Linear Housing-Price Curve: No Consumer Substitution, Consumer Substitution Generates a Convex Housing-Price Curve, Price Issues under different Assumptions: Time Costs, Public Services, Taxes, Amenities, Land-Use Patterns, Bid-Rent Curves for Business, Territories of Different Sectors, Input Choice

and Factor Substitution, Land-Use Patterns, The Spatial Distribution of Employment, Spatial Distribution of Jobs. The Spatial Distribution of Office Employment and Office

Semester- II

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Elective Courses (Stream 2.II)

(One course to be opted)

Course No: P2ECTE212

Title: Urban & Regional Economics

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

b) Minor Tests- I & II: 20 each (Duration: 1hr)

Duration of Major Examination: 2:30 hrs

Urban Economics & Regional Economics

Syllabus for the Examination to be held in May 2026, 2027 and 2028

Space, Edge Cities, The Role of Subcenters in the Metropolitan Economy, Spatial Distribution of Population, Population Density in Portland and Boston, Density in World Cities, Commuting Patterns, The Rise of the Monocentric City, Innovations in Intracity Transportation, The Technology of Building Construction, The Primitive Technology of Freight, The Demise of the Monocentric City, Decentralization of Manufacturing: Trucks and Highways, Other Factors: Automobile, Single-Story Plants, and Airports, Decentralization of Office Employment, Decentralization of Population, Urban Sprawl-Sprawl Facts, The Causes of Sprawl, The Consequences of Sprawl, Policy Responses to Sprawl

Neighborhood Choice, Diversity versus Segregation, Sorting for Local Public Goods, Diversity in Demand for Local Public Goods, Problems with Majority Rule and Formation of Municipalities, Variation in Consumption of the Taxed Good, Neighborhood Externalities, Neighborhood Choice, Segregation Equilibrium, Integration as a Stable Equilibrium, Mixed Neighborhoods, Lot Size and Public Policy, Minimum Lot Size Zoning and Segregation, Neighborhood Choices: The Roles of Education and Crime, Education and Neighborhood Choice, Crime and Neighborhood Choice, Racial/Religious/Caste/Class Segregation, Racial/Religious/Caste/Class Preferences and Neighborhood Choice, Other Reasons for Racial/Religious/Caste/Class Segregation, The Consequences of Segregation, Unfavorable Neighborhood Effects, Limited Access to Jobs: The Spatial Mismatch, Moving to Opportunity,

Zoning and Growth Controls, Land-Use Zoning, Fiscal Zoning, Minimum Lot Zoning and the Space Externality, Provision of Open Space, The Legal Environment of Zoning, Substantive Due Process, Equal Protection, Just Compensation, A City without Zoning? Growth Control: Urban Growth Boundaries, Precise Growth Control: Limiting Land Area and Lot Size, Winners and Losers from Growth Boundaries, Urban Growth Boundary and Density, Portland's Urban Growth Boundary, Municipal versus Metropolitan Growth

Boundaries, Trade-offs with Growth Boundaries and Open Space, Other Growth-Control Policies. Limiting Building Permits, Development Taxes, Housing Regulations and Housing Prices,

Semester- II

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Elective Courses (Stream 2.II)

(One course to be opted)

Course No: P2ECTE212

Title: Urban & Regional Economics

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

b) Minor Tests- I & II: 20 each (Duration: 1hr)

Duration of Major Examination: 2:30 hrs

Urban Economics & Regional Economics

Syllabus for the Examination to be held in May 2026, 2027 and 2028

UNIT – III: Urban Transport and Crime

Autos and Highways, Congestion Externalities, The Demand for Urban Travel, The Private and Social Costs, Equilibrium versus Optimum Traffic Volume, The Congestion Tax – Issues Involved, Implementing Road Pricing: Tolls and HOT Lanes, Alternatives to a Congestion Tax, The Road Capacity Decision, Capacity Expansion and Latent Demand, Who Pays for Roads? Autos and Air Pollution, Internalizing the Externality, A Gasoline Tax, Greenhouse Gases and a Carbon Tax, Motor Vehicle Accidents, Vehicle Safety Policies: Bikers Beware, Pay to Drive Policies, Accidents and Congestion, Automobiles and Poverty

Urban Transit, Commuting and Transit Ridership, The Cost of Travel and Modal Choice, Demand Supply and Efficiency Issues, Nature of Subsidies. Designing a Transit System: Issues Involved, The Role of Density, Deregulation: Contracting and Paratransit, Transit and Land-use Patterns, Contracting for Transit Services, Education- Spending and Educational Achievement, The Education Production Function, The Home Environment, Peer Effects, School Inputs: The Importance of Teachers, Differences in Teacher Productivity, Characteristics of High-Productivity Teachers, The Effect of Class Size, Teacher Compensation, Innovation: Charter Schools, Promise Academy, Boarding Schools, Spending Inequalities and Public Policy, Intergovernmental Grants: Foundation Plans, Response to a Foundation Grant, Matching Grants: Guaranteed Tax Base, Effects of Equalization Plans on Spending and Achievement Inequalities, Education in Central Cities

Crime- Crime Facts, The Victims of Crime, The Costs of Crime, The Rational Criminal,

The Economics of Double Parking, Expected Utility and the Decision to Commit Crime, Preventing Crime, Morality and Anguish Costs, The Equilibrium Quantity of Crime, Drawing the Supply Curve, The Marginal-

Benefit Curve and the Equilibrium Quantity of Crime, Increasing the Certainty of Punishment, Increasing the Severity of Punishment, legal Opportunities and Education, Lawful Opportunities and Crime, Education as Crime-Fighting Policy, Applications: Big-City Crime and the Crime Drop, Why Are Crime Rates Higher in Big Cities? The Optimal Amount of Crime, Crime Substitution and the Principle of Marginal Deterrence, The Role of Prisons, Incapacitation, Rehabilitation

Semester- II

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Elective Courses (Stream 2.II)

(One course to be opted)

Course No: P2ECTE212

Title: Urban & Regional Economics

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

b) Minor Tests- I & II: 20 each (Duration: 1hr)

Duration of Major Examination: 2:30 hrs

Urban Economics & Regional Economics

Syllabus for the Examination to be held in May 2026, 2027 and 2028

UNIT – IV: Urban Housing and Taxation

Housing: Why Is Housing Different? Heterogeneity and Hedonics, Durability, Deterioration, and Maintenance, Quality Issues, Durability and Supply Elasticity, Moving Costs and Consumer Disequilibrium, The Filtering Model of the Housing Market, Filtering and the Housing Stepladder, Subsidies for New Housing, The Effects of Growth Controls, Filtering with Rising Income, The Price Effects of Growth Controls, Housing Policy- Public Housing, Public Housing and Recipient Welfare, Subsidies for Private Housing, Low-Income Housing Tax Credit, The Market Effects of Subsidized Housing, Housing Vouchers, Vouchers and Consumer Welfare, Market Effects of Vouchers, Portable Vouchers: Moving to Opportunity, Community Development and Urban Renewal, Urban Renewal, Recent Community Development Programs, Homelessness, Which Housing Policy Is Best? Subsidies for Mortgage Interest, Mortgage Subsidy and Efficiency, Mortgage Subsidy and Home Ownership, Rent Control and Rent Regulation

The Role of Local Government - Local Public Goods: Equilibrium versus Optimum, The Efficient Quantity of Local Public Goods, The Median Voter Picks the Equilibrium Quantity, Tiebout Model: Voting with Feet, Benefit Taxation, Natural Monopoly, Externalities, Public Education Externalities and Vouchers, Externalities from Public Safety Programs, Federalism and Metropolitan Government, A Closer Look at the Median Voter Result, A Series of Budget Elections, The Median Voter in a Representative Democracy, Implications of the Median-Voter Rule, Limitations of the Median-Voter Model, Local Government Revenue, Who Pays the Residential Property Tax? The Land Portion of the Property Tax, Structure Portion: A Partial-Equilibrium

Approach, Structure Portion: A General-Equilibrium Approach, Changing the Assumptions, From Models to Reality- What about Rental Property Owners and Homeowners? Practical Guide for Policy Makers, What about the Business Property Tax?, the Tiebout Model and the Property Tax, Limits on Property Taxes, Intergovernmental Grants, Lump-Sum Grants, Matching Grants, Summary: The Stimulative Effects of Grants, Welfare Reform: Matching Grants to Lump-Sum Grants,

Semester- II

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Elective Courses (Stream 2.II)

(One course to be opted)

Course No: P2ECTE212

Title: Urban & Regional Economics

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

b) Minor Tests- I & II: 20 each (Duration: 1hr)

Duration of Major Examination: 2:30 hrs

Urban Economics & Regional Economics

Syllabus for the Examination to be held in May 2026, 2027 and 2028

Note for Paper Setting: Minor Test -I and Minor Test - II each of 20 marks from each Unit

Test I and Test II: The Subjective Test of Test I and Test II consist of three short answer type questions (05 marks each). Students are required to answer two questions. (5*2=10 & 10 MCQs=20)

The Subjective Test of Test II consist of three short answer type questions (05 marks each). Students are required to answer two questions. (5*2=10 & 10 MCQs=20)

No preparatory holidays shall be provided for the Test I and Test II. Those candidates who have appeared in Test I and Test II and failed to get the minimum required marks i.e. **14 out of 40 will be eligible to re-appear in the Test I and Test II only once.**

Major Test: The Major test will comprise two sections, Section-A and Section-B. Section-A will have one compulsory question comprising of **10 parts (minimum 02 from each unit) of 03 marks each**. Section B will have **04 questions of 15 marks each to be set from the last two units (02 from each unit)**. In Section B students are required to attempt 01 question from each unit. **In major test there should not be a gap of more than two days in between two tests.**

Basic Reading List

1. Urban Economics 8th Edition, McGraw Hill, Arthur OSullivan
2. A Companion to Urban Economics. Blackwell Publishing, Arnott, Richard; McMillen, Daniel P., eds.
3. Urban and Regional Economics. Oxford University Press. McCann, Philip
4. Lectures on Urban Economics, MIT Press Jan K. Brueckne

Semester- II
Syllabi of Economics for Two Year P.G Programme as per NEP 2020
Elective 2.II

Course No: P2ECTE213

Title: History of Economics Thought

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

b) Minor Tests- I & II: 20 each (Duration: 1hr)

Duration of Major Examination: 2:30 hrs

Syllabus for the Examination to be held in May 2026, 2027 and 2028

History of Economics Thought

Course Outcomes:

At the conclusion of the course, students should be able to:

- Work with information: to find, evaluate and use information from various sources, necessary to solve scientific and professional problems (including those on the basis of a systematic approach)
- Critically evaluate and rethink the accumulated experience (own and others'), to reflect on professional and social activities;
- Critically evaluate the main trends of modern economics, competently lead a discussion about the arguments in favour of each of them;
- Based on the description of economic processes and phenomena, he is able to build theoretical models, analyze and meaningfully interpret the results obtained;

Unit-I Introduction to Economic thought of Ancient Greece- History of economic thought as a discipline. Economic thought and economic analysis. Plato's social and political theory. Aristotle's 'realistic' approach, his main principles of analysis. Theory of justice and 'just price'. Money, exchange and wealth in Aristotle's works.

Economic thought of the Middle Ages: St. Thomas Aquinas as a representative of the scholastic thought. The concepts of money, value, usury, and just price. Influence of the scholastic thought on the subsequent development in economic theory. The notion of natural law.

Unit-II Mercantilism and Physiocratic Thought: Mercantilist theory and practice. Theories of value and of money (16th – 18th centuries) The notion of value and its significance. Value, price, and money. William Petty and the origins of Political Economy- A new method of inquiry. The concept of wealth. Commodity and market. Distribution and prices. The Physiocratic thought Intellectual context of the Physiocracy. Cantillon as precursors of Quesnay. Quesnay's Tableau Economique: a model of the circular flow. The principles of economic policy. Laissez-faire doctrine. Contribution of Turgot.

Unit-III Classical Traditions: Adam Smith's economic theory. The Wealth of Nations and its significance for economics as a discipline. Smith's theory of value and distribution. The factors of the economic development. The division of labour. The notion of capital. Economic liberalism.

Semester- II
Syllabi of Economics for Two Year P.G Programme as per NEP 2020
Elective 2.II

Course No: P2ECTE213

Title: History of Economics Thought

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

b) Minor Tests- I & II: 20 each (Duration: 1hr)

Duration of Major Examination: 2:30 hrs

Syllabus for the Examination to be held in May 2026, 2027 and 2028

History of Economics Thought

Economic science at the turbulent time Reforms and the Revolution. Malthus: 'a dismal science'. The problem 'Say's law' vs. the under-consumption theories (Malthus, Sismondi). Bentham's utilitarianism.

David Ricardo's theory of value and distribution. Money and taxation. International trade theory and the Corn Laws. Technological change and employment.

J.S. Mill: the first synthesis in economics. Economic and social theory of Karl Marx - Political economy and philosophy. Theory of value. The concept of exploitation. Theory of reproduction. Marx on economic dynamics.

Unit-IV: Marginalist revolution and Keynes Reaction to Classicals: J.B. Clark and the theory of marginal productivity. The concept of economic goods. Exchange and price. Capital and interest rate in the Böhm-Bawerk's theoretical system. General equilibrium model and its significance. Existence, uniqueness and stability of equilibrium. Alfred Marshall Marshall's theoretical synthesis. Methodological ideas and use of mathematics. Partial equilibrium method. Concept of elasticity. Representative firm. Long-run and short-run analysis. Consumer and producer surplus. John Maynard Keynes- The General Theory.

Note for Paper Setting: Minor Test -I and Minor Test - II each of 20 marks from each Unit

Test I and Test II: The Subjective Test of Test I and Test II consist of three short answer type questions (05 marks each). Students are required to answer two questions. (5*2=10 & 10 MCQs=20)

The Subjective Test of Test II consist of three short answer type questions (05 marks each). Students are required to answer two questions. (5*2=10 & 10 MCQs=20)

No preparatory holidays shall be provided for the Test I and Test II. Those candidates who have appeared in Test I and Test II and failed to get the minimum required marks i.e. **14 out of 40 will be eligible to re-appear in the Test I and Test II only once.**

Major Test: The Major test will comprise two sections, Section-A and Section-B. Section-A will have one compulsory question comprising of **10 parts (minimum 02 from each unit) of 03 marks each.** Section B will have **04 questions of 15 marks each to be set from the last two units (02 from each unit).** In Section B students are required to attempt 01 question from each unit. **In major test there should not be a gap of more than two days in between two tests.**

Semester- II
Syllabi of Economics for Two Year P.G Programme as per NEP 2020
Elective 2.II

Course No: P2ECTE213

Title: History of Economics Thought

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

b) Minor Tests- I & II: 20 each (Duration: 1hr)

Duration of Major Examination: 2:30 hrs

Syllabus for the Examination to be held in May 2026, 2027 and 2028

History of Economics Thought

Suggestive Readings:

- Schumpeter J. A History of Economic Analysis. Oxford University Press, 1954 II.
- Roncaglia A. The Wealth of Ideas. A History of Economic Thought. Cambridge University Press, 2006.
- Blaug M. Economic Theory in Retrospect. 5-th ed. Cambridge: Cambridge University Press 1991.
- Keynes J.M. General Theory of Employment, Interest and Money. (any edition).
- Marshall A. Principles of Economics. (any edition).
- Ricardo D. On the Principles of Political Economy and Taxation. (any edition).
- Smith A. An Inquiry into the Nature and Causes of a Wealth of Nations (any edition). Schumpeter J.A. Ten Great Economists: From Marx to Keynes. (any edition)
- Friedrich List, The National System of Political Economy. (any edition)

Semester- II

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Elective Courses (Stream 2.II)

(One course to be opted)

Course No: P2ECTE214

Title: International Political Economy

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

b) Minor Tests- I & II: 20 each (Duration: 1hr)

Duration of Major Examination: 2:30 hrs

International Political Economy

Syllabus for the Examination to be held in May 2026, 2027 and 2028

- **Course outcome:** To understand the broad principles and theories, which tend to govern the free flow of trade in goods, services and capital-both short-term and long term - at the global level.
- To prepare the students about the relevance and limitations of various theories and principles of international political economy.
- To examine the impact of the trade policies on economic development

UNIT-I: International Political Economy

International Political Economy: Meaning, Traditional Schools of International Political Economy. The International Trade System: Meaning; the Creation of the Post-war Trade System; Evolution of the Multilaterals Trade System; The Problem of Trade Cooperation; The Politics of Trade Liberalization; Multilateral Institutions and Trade Cooperation; Protection: Protection and its Consequences; the structure of Protection in the Advanced Industrialized Countries; The Economic Consequences of Protection.

UNIT - II: The Theory of Regional Blocks

Forms of Economic Cooperation; Static and Dynamic effects of a Custom Union: Production effect; Consumption Effects. European Union (EU) and North American Free Trade Agreement (NAFTA). Economic Progress of SAARC/SAFTA, etc. for Asian Economic Cooperation; Problems and Prospects of forming customs union in the Asian Region: Globalization: meaning; essential conditions for Globalization; implications and impact of Globalization

Semester- II

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Elective Courses (Stream 2.II)

(One course to be opted)

Course No: P2ECTE214

Title: International Political Economy

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

b) Minor Tests- I & II: 20 each (Duration: 1hr)

Duration of Major Examination: 2:30 hrs

International Political Economy

Syllabus for the Examination to be held in May 2026, 2027 and 2028

UNIT -III: International Trade and Financial Institutions

The International Monetary System : The rise and fall of Gold Standard and Bretton Wood System (the interwar periods); Present International Monetary System IMF: Objectives; functions; Conditionality clause of the IMF; The Collapse of Bretton Wood System; World Bank : and its contribution - limitations.

GATT and WTO: GATT and Trade Liberalization : The Doha Declaration; WTO and Developing Countries with Special reference to India; Trade Related Investment Measures (TRIMs), Trade related aspects of Intellectual property (TRIPs) and General Agreement of Trade in Services (GATS).

UNIT - IV: Current Development and Problems in the International Economy

Asian Crisis and the lessons for the developing countries like India; Impact of Trade Reforms Since 1991 on Balance of Payments, Multinational Corporations: Definitions, benefits; domestic politics and MNCs; The Host Country Dilemma; Regulating MNCs activity in Developing Countries; International Regulation of MNCs.

International Debt: Debt-Growth link; Magnitude of Debt Problem; Causes of Debt problem; Remedial and preventive measures; Reasons for sharp rise in India's External Debt.

Note for Paper Setting: Minor Test -I and Minor Test - II each of 20 marks from each Unit

Test I and Test II: The Subjective Test of Test I and Test II consist of three short answer type questions (05 marks each). Students are required to answer two questions. (5*2=10 & 10 MCQs=20)

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No preparatory holidays shall be provided for the Test I and Test II. Those candidates who have appeared in Test I and Test II and failed to get the minimum required marks i.e. **14 out of 40 will be eligible to re-appear in the Test I and Test II only once.**

Major Test: The Major test will comprise two sections, Section-A and Section-B. Section-A will have one compulsory question comprising of **10 parts (minimum 02 from each unit) of 03 marks each.** Section B will have **04 questions of**

15 marks each to be set from the last two units (02 from each unit). In Section B students are required to attempt 01 question from each unit. **In major test there should not be a gap of more than two days in between two tests.**

Semester- II

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Elective Courses (Stream 2.II)

(One course to be opted)

Course No: P2ECTE214

Title: International Political Economy

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

b) Minor Tests- I & II: 20 each (Duration: 1hr)

Duration of Major Examination: 2:30 hrs

International Political Economy

Syllabus for the Examination to be held in May 2026, 2027 and 2028

Basic Reading List

1. Bhagwati J. (Ed.) (1981), International Trade : Selected Readings Chambridge University Press
2. Carbough, R.J. (1999), International Economics, International Thompson Publishing, New York.
3. Chacholiades, M (1999) International Trade : Theory and Policy, McGraw Hill, Kogakusha, Japan.
4. Dana, M.S. (2000), International Economics: Study, Guide and Work Book (5th Edition), Rouledge Publishers, London.
5. Dunn, R.M. and J.H. Mutti (2000), International Economics, Rouledge, London.
6. Kenen, P.B. (1994), The International Economy, Cambridge University Press, London.
7. Kindleberger, C.P. (1973), International Economics, R.D. Irwin, Homewood.
8. King, p.G. (1995), Internatiional Economics and International Economic Policy : A Reader, McGraw Hill International Singapore.
9. Krugman, P.R. and M. Obstfeld (1994) International Economics : Theory and Policy, Glenview, Foresman.
10. Oatley, Thomas (2004), International Political Economy Pearson Education (Singapore) Pvt. Ltd. Indian Branch 482 F.I.E. Paparganj, Delhi.
11. Salvatore, Dominic (2006) Theory and Problems of International Economics, Tata McGraw Hill Pub. Co. Ltd. New Delhi.
12. Condem W.M. (1965), Recent Developments in the Theory of International trade, Princeton University Press.

Semester- II

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Elective Courses (Stream 2.II)

(One course to be opted)

Course No: P2ECTE214

Title: International Political Economy

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

b) Minor Tests- I & II: 20 each (Duration: 1hr)

Duration of Major Examination: 2:30 hrs

International Political Economy

Syllabus for the Examination to be held in May 2026, 2027 and 2028

13. Greenway, D. (1983), International Trade Policy, Macmillan Publishers Ltd., London.
14. Clement M.A. R.L. Poffster and K.J. Rothwell (1969), Theoretical Issues in International Economics.
15. Crockett, A (1982), International Money: Issues and Analysis, The ELBS and Nelson.
16. Heller, H. Robvert (1968), International Monetary Economics, Prentice Hall, India.
17. Guegabsm H, (1984) International Monetary Economics, John Hopkins University Press, Baltimore.

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Semester- II

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Core

Course No: P2ECTC215

Title: Introduction to Research Methodology

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

b) Minor Tests- I & II: 20 each (Duration: 1hr)

Duration of Major Examination: 2:30 hrs

Introduction to Research Methodology

Syllabus for the Examination to be held in May 2026, 2027 and 2028

Course Outcome:

- To gain knowledge about the basic concept of research and research methodology.
- To able to understand the use of scientific method to investigate and analyze various economic phenomena.
- To provide an opportunity to take a focused view on the methodological possibilities and limitations they face while conducting research in economics.
- To identify and use various sources of secondary data and databases available and improve their analytical skills to carry out individual research.

Unit I: Fundamentals of Research and Research Problem

Meaning, Scope and Objectives, Motives and significance of Research; Types of Research -Descriptive vs analytical, applied vs fundamental, quantitative vs qualitative, conceptual vs empirical, significance of research, research process; Criteria of good research; Research ethics; Research Problem: Nature, Considerations in selecting a problem, necessity of defining the problem, Research questions and hypotheses: concept and formulation

Unit II: Literature Review, Research Design and sampling

Purpose and process of literature review, Sources of literature (economic databases, journals, reports), Research Design: Meaning, importance and Types of research design: exploratory, descriptive, experimental: Sampling Design-steps, characteristics of a good sample design and different types of sample design

Unit III: Data Collection and processing

Types of data: Primary and secondary; Sources of data in economics: NSSO, CSO, RBI, World Bank, IMF, ASI, Census data – National Family and Health Survey (NFHS) reports. etc. Methods of Data Collection- Observation, Interview, Questionnaire, Schedule, Design of Questionnaire and Schedule; data coding, editing and classification and tabulation; Use of data analysis software (Excel/SPSS/ – introductory level)

Semester- II

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Core

Course No: P2ECTC215

Title: Introduction to Research Methodology

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

b) Minor Tests- I & II: 20 each (Duration: 1hr)

Duration of Major Examination: 2:30 hrs

Introduction to Research Methodology

Syllabus for the Examination to be held in May 2026, 2027 and 2028

Unit IV Data Analysis, Report Writing & Ethics

Descriptive and inferential statistics: mean, median, SD, t-test, chi-square (basic level), Introduction to correlation and regression, Interpretation of results and drawing conclusions, Structure of a research report/thesis, Referencing and bibliography (APA/MLA style), Research ethics and plagiarism

Note for Paper Setting: Minor Test -I and Minor Test - II each of 20 marks from each Unit

Test I and Test II

The Subjective Test of Test I and Test II consist of three short answer type questions (05 marks each). Students are required to answer two questions. (5*2=10 & 10 MCQs=20)

The Subjective Test of Test II consists of three short answer type questions (05 marks each). Students are required to answer two questions. (5*2=10 & 10 MCQs=20)

No preparatory holidays shall be provided for the Test I and Test II. Those candidates who have appeared in Test I and Test II and failed to get the minimum required marks i.e. **14 out of 40 will be eligible to re-appear in the Test I and Test II only once.**

Major Test

The Major test will comprise two sections, Section-A and Section-B. Section-A will have one compulsory question comprising of **10 parts (minimum 02 from each unit) of 03 marks each**. Section B will have **04 questions of 15 marks each to be set from the last two units (02 from each unit)**. In Section B students are required to attempt 01 question from each unit. **In major test there should not be a gap of more than two days in between two tests.**

Basic Reading List

- Don Ethridge, 'Research Methodology in Applied Economics: Organizing, Planning and Conducting' Second Edition, Blackwell Publishing 2004.
- Johnson, Glenn Leroy Research methodology for economist; philosophy and practice, Macmillan; 1986. Xx 253p.
- Greenlaw, S., Doing Economics: A guide to understanding and Carrying Out Economic Research, Houghton Mifflin reference and bibliography.

- Kagel, JH and Roth, AE (1995) The Handbook of Experimental Economics, Princeton University Press, Princeton.

Semester- II

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Core

Course No: P2ECTC215

Title: Introduction to Research Methodology

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

b) Minor Tests- I & II: 20 each (Duration: 1hr)

Duration of Major Examination: 2:30 hrs

Introduction to Research Methodology

Syllabus for the Examination to be held in May 2026, 2027 and 2028

- Goon, AM, MK Gupta and B. Das (1983), Fundamental of Statistical Vol. 1, The Word Press, Calcutta.
- Hoel, P.er (1954) Introduction to Mathematical Statistics, Wiley and Sons.
- Hogg R.V and A.T. Craig (1970), Introduction to Mathematical Statistics, Macmillian Publishing Co., New York
- Nagar, A.L and R.K.Das (1993). Basic Statistics, Oxford University Press, New Delhi
- Rao, C.R. (1965), Linear Statistical Inference and Application Wiley and Sons.
- Sukhatme, P.V. and B.V. Sukhatme (1970). Sampling Theory of Survey with Applications Lowa State University Press, Ames.
- Walpole, R. Statistics (1980), Collier Macmillain.
- Kothari C.R, Research Methodology, Vishwa Prakashan, N.Delhi.
- Wilkinson & Bhandarkar Methodology & Techniques of Social Research, Himalaya Publishing House.
- Research Methodology, Tripathi P.C, Sultan Chand & Co.. N.Delhi
- Karlinger, Foundations of Behaviour Research, Surjeet and Company, N.Delhi.
- Koutsoyannis, A. (1997). Theory of Econometrics (2nd Edition). The Macmillan Press Ltd. London.
- Maddala, G.S. (1997). Econometrics, McGraw Hill; New York

Semester- II

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Vocational Course

Course No: P2ECVC251

**Title: Internship/workshop/vocational
course training Programme (Summer
vacation)**

Marks: 100

Credits: 4

Internship/workshop/vocational course training Programme (Summer vacation)

Examination to be held in 2026, 2027 and 2028

Evaluation Scheme for internship/Training Programme

Component	Marks
Internship/ Training Programme Certificate	10
Report	40
Final Presentation	50
Total	100

Semester- III
Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Core Courses

Course No: P2ECTC301

Title: Advanced Microeconomics

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

b) Minor Tests- I & II: 20 each (Duration: 1hr)

Duration of Major Examination: 2:30 hrs

Syllabus for the Examination to be held in Dec 2026, 2027 & 2028

- **Course Outcome:** To introduce students to various theories of distribution, welfare economics, general equilibrium in closed systems, choice under risk and uncertainty.
- To get familiarize with new developments in the theory of markets and economics of information.
- To learn to apply Mathematical tools in the special economic situations.

UNIT-I: Alternative Theories of Firm and Information Technology

Critical evaluation of marginal analysis, Baumols sales maximization model, price output determination, optimal advertising expenditure, choice of output of various products and input combinations, pricing and changes in overhead costs.

Williamsons model of managerial discretion, Maris's model of managerial discretion, full cost pricing rule. Bains limit pricing theory and its recent developments including Sylos-labini model of the firm behavioral model of the firm. Information technology- systems competition, problem of complements, lock in, network externalities and it effects and implications, rights management and sharing of intellectual property.

UNIT-II: Game Theory and General Equilibrium

Zero Sum Game, Non-Zero-Sum Game The payoff matrix of a game, definition of Nash equilibrium, pure and mixed strategies, prisoner's dilemma, repeated games- applications, sequential games, sub-game perfect equilibrium- examples- entry deterrence.

Partial and general equilibrium, the Walrasian system, existence, uniqueness and stability of equilibrium. A graphical illustration of the path to general equilibrium, algebraic treatment of a two-person-two-good exchange model, graphical treatment of the two factor, two commodity two consumer general equilibrium system, static properties of a general equilibrium state, general equilibrium and allocation of resources.

Semester- III

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Core Courses

Course No: P2ECTC301

Title: Advanced Microeconomics

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

b Minor Tests- I & II: 20 each (Duration: 1hr)

Duration of Major Examination: 2:30 hrs

Syllabus for the Examination to be held in Dec 2026, 2027 & 2028

UNIT-III: Distribution and Welfare Economics, Externalities and Provisions for Public Goods

Marginal productivity theory of distribution, product exhaustion theorem (Clark-Wicksteed-Walras), Pareto optimal conditions, social welfare function, compensation principle, Scitovaskys paradox, Scitovaskys double criterion, theory of second best, Arrows impossibility theorem.

Externalities-definitions externalities and market failure, Coase theorem, production

Externalities- pollution vouchers, property rights and the tragedy of the commons

Public goods- definitions and characteristics, when to provide a public good, optimal provision for a public good, private provision for public good and the free-rider problem, the Clark-groves tax and its problems.

UNIT-IV: Choice under Risk and Uncertainty and Economics of Information

Expected utility theory, Von Neumann-Morgenstern method of constructing utility index under risky situations, the St.Petersberg Paradox and Bernoulli's hypothesis, Alias's paradox and explanations. Attitude towards risk- measures of absolute and relative risk aversion, Certainty equivalent, risk premium, risk averter v/s risk lover. Risk lover and gambling. Risk aversion and insurance.

Friedman- Savage hypothesis, Markowitz hypothesis, the investors' choice problem information and consumer's choice, information and insurance-dealing with asymmetric information.

Asymmetric information- the market for lemons and quality choice, adverse selection, moral hazard, signaling, incentive-systems.

Semester- III

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Core Courses

Course No: P2ECTC301

Title: Advanced Microeconomics

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

b) Minor Tests- I & II: 20 each (Duration: 1hr)

Duration of Major Examination: 2:30 hrs

Syllabus for the Examination to be held in Dec 2026, 2027 & 2028

Note for Paper Setting: Minor Test -I and Minor Test - II each of 20 marks from each Unit

Test I and Test II

The Subjective Test of Test I and Test II consist of three short answer type questions (05 marks each). Students are required to answer two questions. (5*2=10 & 10 MCQs=20)

The Subjective Test of Test II consists of three short answer type questions (05 marks each). Students are required to answer two questions. (5*2=10 & 10 MCQs=20)

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Major Test

The Major test will comprise two sections, Section-A and Section-B. Section-A will have one compulsory question comprising of **10 parts (minimum 02 from each unit) of 03 marks each**. Section B will have **04 questions of 15 marks each to be set from the last two units (02 from each unit)**. In Section B students are required to attempt 01 question from each unit. **In major test there should not be a gap of more than two days in between two tests.**

Basic Reading List

1. Henderson J and R Quandt: Microeconomics theory, A mathematical approach, McGraw-Hill.
2. Hader, J: Mathematical theory of economic behavior, Addison-Wesley.
3. Koutsoyannis, A: Modern microeconomics, Macmillan.
4. Mas-collé A, M.D. Whinston & J.R. Greene: Microeconomics theory, OUP.
5. Salvatore, D: Microeconomics, UP
6. Sen, A: Microeconomics, UP
7. Varian: Intermediate microeconomics, East West press.

Semester- III

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Core Courses

Course No: P2ECTC302

Title: Advanced Macroeconomics

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

b) Minor Tests- I & II: 20 each (Duration: 1hr)

Duration of Major Examination: 2:30 hrs

Syllabus for the **Examination to be held in Dec 2026, 2027 & 2028**

Course Outcome:

Understand, explain and constructively criticize well-known macroeconomic models.

Evaluate the extent to which well-known macroeconomic models can explain real-world data and macroeconomic experiences.

Use well-known macroeconomic models to illuminate current debates about macroeconomic policy.

Read and understand original research articles about macroeconomics in academic journals.

UNIT-1: Classical Macroeconomics System

Classical Macroeconomics: output and Employment the classical revolution. production, employment-labour demand and supply, equilibrium output and employment, the determinants of output and employment, factors that do not affect output.

Classical Macroeconomics: Money, prices, and Interest the quantity theory of money, the Cambridge approach to the quantity theory, the classical aggregate demand curve, the classical theory of the interest rate, policy implications of the classical equilibrium model.

Semester- III

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Core Courses

Course No: P2ECTC302

Title: Advanced Macroeconomics

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

b) Minor Tests- I & II: 20 each (Duration: 1hr)

Duration of Major Examination: 2:30 hrs

Syllabus for the Examination to be held in Dec 2026, 2027 & 2028

UNIT-II: The Keynesian Macroeconomics System

The Keynesian System- the problem of unemployment, the simple Keynesian model: conditions for equilibrium output, the components of aggregate demand, determining equilibrium income, changes in equilibrium income, fiscal stabilization policy, export and imports in the simple Keynesian model. The Keynesian System: money, interest, and income- money in the Keynesian system- interest rates and aggregate demand the Keynesian theory of the interest rate- the Keynesian theory of money demand- the total demand for money- the effect of an increase in the money supply

UNIT-III: The Keynesian System Versus Classical

The Keynesian system, aggregate supply and demand- The Keynesian aggregate demand schedule. The Keynesian aggregate demand schedule combined with the classical theory of aggregate supply. A contractual view of the labour market- sources of wage rigidity. flexible price-fixed money wage model, labour supply and variability in the money wage- classical and Keynesian theories of labour supply, the Keynesian aggregate supply schedule with a variable money wage, policy effects in the variable wage Keynesian model, the effects of shifts in the aggregate supply schedule, factors that shift the aggregate supply schedule. Keynesian versus classical theories of aggregate demand and supply.

Semester- III

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Core Courses

Course No: P2ECTC302

Title: Advanced Macroeconomics

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

b) Minor Tests- I & II: 20 each (Duration: 1hr)

Duration of Major Examination: 2:30 hrs

Syllabus for the **Examination to be held in Dec 2026, 2027 & 2028**

UNIT-IV: Output, Inflation and Unemployment: Alternative Views

Inflation and Unemployment the Phillips curve, The Natural rate theory, Monetary policy, output and inflation: Friedman's monetarist view in the short and long run, Keynesian view of the output-inflation trade off in the short and long run, stabilization policies for output and employment, Evolution of the natural rate concept-determination of the natural rate of unemployment.

New Classical Economies the new classical position, the Keynesian counter critique, Real Business cycle models-agents optimize and markets clear, a simple business cycle model. New Keynesian Economics-sticky price (menu cost), efficiency wage models. and insider-outsider models.

Note for Paper Setting:: Minor Test -I and Minor Test - II each of 20 marks from Unit

Test I and Test II

The Subjective Test of Test I and Test II consist of three short answer type questions (05 marks each). Students are required to answer two questions. **No preparatory holidays shall be provided for the Test I and Test II.** Those candidates who have appeared in Test I and Test II and failed to get the minimum required marks i.e. 14 out of 40 will be eligible to re-appear in the Test I and Test II only once.

Major Test

The Major test will comprise two sections, Section-A and Section-B. Section-A will have one compulsory question comprising of 10 parts (minimum 02 from each unit) of 03 marks each. Section B will have 04 questions of 15 marks each to be set from the last two units (02 from each unit). In Section B students are required to attempt 01 question from each unit. **In major test there should not be a gap of more than two days in between two tests.**

Semester- III

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Core Courses

Course No: P2ECTC302

Title: Advanced Macroeconomics

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

b) Minor Tests- I & II: 20 each (Duration: 1hr)

Duration of Major Examination: 2:30 hrs

Syllabus for the Examination to be held in Dec 2026, 2027 & 2028

Basic Reading List

1. Abel, Andrew B., & Ben S. Bernanke (2006), Macroeconomics, Pearson Education Inc., New York.
- Ackley, G. (1978), Macroeconomics: Theory and Policy, Macmillan, New York.
2. Black, P. and A. Salans (Eds.) (2000), Macroeconomics and the Real World (2 Vols.) Oxford University Press, London.
3. Branson, W.A. (1989), Macroeconomic Theory and Policy, (3rd Edition), Harper and Row, New York.
4. Dornbusch, R. and F. Stanley (1997), Macroeconomics, McGraw Hill Inc., New York.
5. Froyen, T. R. (2015), Macroeconomics theories and policies, Pearson India Education Services Pvt Ltd, Noida, India, ISBN 9789332518322
6. Hall, R.E. and J.B. Taylor (1986), Macroeconomics, W. W. Norton, New York.
7. Heijdra, B.J. and V.P. Frederick (2001), Foundations of Modern Macroeconomics, Oxford University Press, New Delhi.
8. Jha, R. (1991), Contemporary Macroeconomics

Semester- III

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Core Courses

Course No: P2ECTC303

Title: Economics of Growth

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

b) Minor Tests- I & II: 20 each (Duration: 1hr)

Duration of Major Examination: 2:30 hrs

Economics of Growth

Syllabus for the **Examination to be held in Dec 2026, 2027 & 2028**

Course Outcome: To give overview of the determinants of growth.

- To understand the role of various factors of production, technology, money as well as the policy implications of the various models of growth.

UNIT - I: Introduction to Economic Growth and the Early Models

Concept and importance of economic growth – The Stylized Facts of Economic Growth, Sources of Economic Growth, Classical Theory of Economic Growth, Harrod's Model of Growth, Domar Model of Growth, Relevance of the Harrod-Domar Model to contemporary developing economics, Marxian Model of Growth and Collapse.

UNIT - II: The Neo-Classical Models and the Models of the Cambridge School

Solow's Model of Growth with its various extensions, Meade's Model, The Neo-Classical Model and the Golden Rule of Accumulation, Cambridge Models of Economic Growth- Joan Robinson's Model, Kaldor's Model, Pasinetti's Model, Samuelson and Modigliani on the Pasinetti Paradox

UNIT -III: The Two Sector Model, Introduction of Money, Optimal Growth and Technical Progress

The Extension of the Neo-Classical Model of two-sectors- Uzawa's Two- Sector Model of Growth, Money and Economic Growth Optimum Growth Models-Introduction and the Ramsey Model, Technical Progress: Different Types of Technical Progress,

UNIT -IV: Endogenous Growth Models and Growth Accounting

Models of endogenous growth- Arrow's Learning by Doing Model. The AK Model, the Production Function Approach to Economic Growth; Growth Accounting- Empirical Evidence, Limits to Growth

Semester- III

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Core Courses

Course No: P2ECTC303

Title: Economics of Growth

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

b) Minor Tests- I & II: 20 each (Duration: 1hr)

Duration of Major Examination: 2:30 hrs

Economics of Growth

Syllabus for the **Examination to be held in Dec 2026, 2027 & 2028**

Note for Paper Setting: Minor Test -I and Minor Test - II each of 20 marks from each Unit

Test I and Test II

The Subjective Test of Test I and Test II consist of three short answer type questions (05 marks each). Students are required to answer two questions. (5*2=10 & 10 MCQs=20)

The Subjective Test of Test II consists of three short answer type questions (05 marks each). Students are required to answer two questions. (5*2=10 & 10 MCQs=20)

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Major Test

The Major test will comprise two sections, Section-A and Section-B. Section-A will have one compulsory question comprising of **10 parts (minimum 02 from each unit) of 03 marks each**. Section B will have **04 questions of 15 marks each to be set from the last two units (02 from each unit)**. In Section B students are required to attempt 01 question from each unit. **In major test there should not be a gap of more than two days in between two tests.**

Basic Reading List

1. Barro, R. and X. Sala-i-Martin, Economic Growth, Prentice Hall India, New Delhi.
2. Branson, W, Macroeconomic Theory and Policy, Harper and Row
3. Chiang, A.C. Element of Dynamic Optimization, McGraw Hill
4. Sen, A.K., Growth Economics, Penguin, Harmondsworth.
5. Solow, R.M. Growth Theory An Exposition, Oxford University Press, Oxford.
6. Wan, I-I.Y., Economic Growth, Harcourt, Brace, Jovanovich New York.
7. Chiang, A.C. Fundamental Methods in Mathematical Economics, McGraw Hill.
8. Robinson, J, The Accumulation of Capital, Macmillan.
9. Domar, B, Essays in the Theory of Economic Growth, Oxford University Press.
10. Thirlwall, A.P. Growth and Development, Palgrave.
11. Harrod R.F., Towards a Dynamic Economics, Macmillan.

- 12.Evans, M. Macroeconomic Activity, Harper and Row
13.Kaldor N., Essays in Economic Growth and Stability, Gerald Ruckworth.

Semester- III

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Tutorial/Practical

Detailed Syllabus

Course No: P2ECVC314

Title: Data Analysis for Economist (T/P)

Credits: 4

Data Analysis for Economist (T/P)

Syllabus for the **Examination to be held in Dec 2026, 2027 & 2028**

Course Outcome: To acquaint students with the available data sets available in the country and further to introduce computational methods to solve mathematical problems related to data analysis. To illustrate the computational aspects with the relevant theory in statistics, and econometrics. To enable the students to gain a hands-on experience on implementing different solution methods on real economic data sets.

Unit I: Introduction to various data sets available with the government through its various ministries related to economy, industry, services, agriculture, banking, poverty, education, crime etc. Introduction to country data published by private agencies like CMIE, Prowess and Indiatat.com etc

Unit II: Introduction to data analysis in excel, GRETL and other softwares. Introduction to statistical inference like Data generating processes, point/ interval estimation, likelihood estimation, hypothesis testing, Bootstrap tests, Monte-Carlo tests, multiple test statistics and how they are used.

Unit III : To understand the regression model (simple and multiple), its scope and limitations. Interpret and evaluate relationships between variables using econometrics. Understand and drive the properties of OLS. Interpret, evaluate and apply inferential methods to linear regression.

Unit IV: Understand the use and implications of data scaling, functional form and dummy variables in regression modeling. Identify the presence of estimation problems. Apply econometric techniques for making decisions with quantitative and categorical data within an economic and business context. Further to foster a logic and rigorous reasoning when facing quantitative analysis. The analysis and critical assessment of numerical results. The ability to formulate, express and solve a problem or question with a model. The ability to identify the relevant elements when facing a business decision.

Semester- III
Syllabi of Economics for Two Year P.G Programme as per NEP 2020
Tutorial/Practical

Detailed Syllabus

Course No: P2ECVC314

Title: Data Analysis for Economist (T/P)

Credits: 4

Data Analysis for Economist (T/P)

Syllabus for the **Examination to be held in Dec 2026, 2027 & 2028**

Note for Paper Setting: Minor Test -I and Minor Test - II each of 20 marks from each Unit

Test I and Test II

The Subjective Test of Test I and Test II consist of three short answer type questions (05 marks each). Students are required to answer two questions. (5*2=10 & 10 MCQs=20)

The Subjective Test of Test II consists of three short answer type questions (05 marks each). Students are required to answer two questions. (5*2=10 & 10 MCQs=20)

No preparatory holidays shall be provided for the Test I and Test II. Those candidates who have appeared in Test I and Test II and failed to get the minimum required marks i.e. **14 out of 40 will be eligible to re-appear in the Test I and Test II only once.**

Major Test

The Major test will comprise two sections, Section-A and Section-B. Section-A will have one compulsory question comprising of **10 parts (minimum 02 from each unit) of 03 marks each**. Section B will have **04 questions of 15 marks each to be set from the last two units (02 from each unit)**. In Section B students are required to attempt 01 question from each unit. **In major test there should not be a gap of more than two days in between two tests.**

Semester- III

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Practical/Workshop

Course No: P2ECVC314

Title: Application of Technology in Economics

Credits: 2

Application of Technology in Economics

Syllabus for the Examination to be held in Dec 2026, 2027 & 2028

Sr. No.	Course No.	Title of the Course	Contact Hours/Week L-Tu-P	Maximum Marks	Credits
1.	P2ECVC314	Application of Technology in Economics	1-0-3	50	2

Course Type: Skill-Based

Credits: 2

Course Outcome: By the end of this course, students will be able to:

CO1: Understand and apply core data tools (Python) to analyze economic datasets.

CO2: Import, clean and visualize structured and unstructured economic data.

CO3: Perform econometric modeling & predictive analytics for real-world economic questions.

CO4: Use web scraping and APIs to access real-time data from digital public infrastructure.

CO5: Understand the role of data, digital tools and AI in modern economic analysis and policy.

CO6: Identify and work with various types of economic data.

CO7: Understand the basics of AI, its types, and applications in economics and governance.

Unit 1: Basics of Data, Technology and AI in Economics

Role of data and digital tools in modern economics, Types of economic data: cross-sectional, time-series, Key data sources: RBI, MOSPI, World Bank, IMF, Introduction to Python (Jupyter Notebook) for economics, Variables, basic data types and simple data operations, Basics of Artificial Intelligence (AI), What is AI and why it matters in economics.

Unit 2: Data Handling, Visualization, and Exploratory Data Analysis (EDA)

Working with structured data: CSV, Excel and JSON files, Data structures: DataFrames, lists, arrays (Python pandas and numpy), Cleaning and organizing economic data (basic techniques only), Introduction to Exploratory Data Analysis (EDA), Descriptive statistics: mean, median, mode, standard deviation, Introduction to AI-powered tools for data insights (e.g., Power BI, Tableau basics, Google Sheets).

Semester- III

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Practical/Workshop

Course No: P2ECVC314

Title: Application of Technology in Economics

Credits: 2

Application of Technology in Economics

Syllabus for the Examination to be held in Dec 2026, 2027 & 2028

Sr. No.	Course No.	Title of the Course	Contact Hours/Week L-Tu-P	Maximum Marks	Credits
1.	P2ECVC314	Application of Technology in Economics	1-0-3	50	2

Course Type: Skill-Based

Credits: 2

Unit 3: Machine Learning for Economic Analysis and Decision-Making

Understanding Machine Learning (ML), **Types of Machine Learning in Economic Contexts:** **Supervised learning:** regression and classification, **Unsupervised learning:** clustering (e.g., identifying consumer segments, regional spending patterns), Building simple ML models using Python. **Applications of ML in Economics**, Ethical concerns in applying AI/ML to economic data: fairness, bias and transparency.

Unit 4: Digital Infrastructure, AI Tools and Applied Economic Data Analysis

India's Digital Public Infrastructure and Economic Insights, Case studies: UPI, Aadhaar, GSTN, DigiLocker, Introduction to APIs: RBI, NPCI, World Bank (basic access and data retrieval), AI and Automation in Economic Research, Using tools like ChatGPT to summarize government reports, economic news and generate initial drafts, Creating reproducible analyses with Google Colab and sharing via GitHub.

SCHEME OF EXAMINATIONS

Minor I (10 marks)

The focus is on practical, employability-driven, and application-oriented learning outcomes.

Component	Marks
Quiz	05
01 Assignment	05
Total	10

Minor II (10 marks)

Component	Marks
Quiz	05

01 Assignment	05
Total	10

Semester- III

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Practical/Workshop

Course No: P2ECVC314

Title: Application of Technology in Economics

Credits: 2

Application of Technology in Economics

Syllabus for the **Examination to be held in Dec 2026, 2027 & 2028**

Sr. No.	Course No.	Title of the Course	Contact Hours/Week L-Tu-P	Maximum Marks	Credits
1.	P2ECVC314	Application of Technology in Economics	1-0-3	50	2

Course Type: Skill-Based

Credits: 2

End-Semester (Major)

To facilitate the application of analytical tools and collaborative skills, a group project will be assigned at mid-semester. This project will serve as a significant component of the end-semester evaluation for the **Application of Technology in Economics**. The final project shall be of 30 marks and distribution of marks is as under:

Group Project Output	Group Presentation	Individual Contribution	Reflective Report	Total
10	5	10	5	30

Evaluation Criterion:

Final Each Seminar presentation will be of **duration 45-60 minutes**. Evaluation of the seminar will be done by the DAC members on the above parameters. There will be no external examination/viva-voce examination. The schedule of the Seminar will be issued by the Head of the Department

Semester- III

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Practical/Workshop

Course No: P2ECVC314

Title: Application of Technology in Economics

Credits: 2

Application of Technology in Economics

Syllabus for the Examination to be held in Dec 2026, 2027 & 2028

Sr. No.	Course No.	Title of the Course	Contact Hours/Week L-Tu-P	Maximum Marks	Credits
1.	P2ECVC314	Application of Technology in Economics	1-0-3	50	2

Course Type: Skill-Based

Credits: 2

References

- McKinney, Wes (2017). Python for Data Analysis (2nd ed.) – O'Reilly .Great for beginners in Python with practical data science examples.
- Hadley Wickham & Garrett Grolemund (2016). R for Data Science – O'Reilly Covers data wrangling, visualization, and modeling in R.
- Joel Grus (2019). Data Science from Scratch: First Principles with Python – O'Reilly
- "Introductory Econometrics with Applications" – Ramu Ramanathan
- "Machine Learning for Absolute Beginners" – Oliver Theobald
- "Python for Data Analysis" – Wes McKinney
- "Artificial Intelligence: A Guide for Thinking Humans" – Melanie Mitchell

Supplementary Resources

Government Data Portals:

- RBI Database: <https://dbie.rbi.org.in>
- NPCI Statistics: <https://www.npci.org.in>
- UIDAI: <https://uidai.gov.in>
- GSTN: <https://www.gstn.org>

Online Platforms:

- Kaggle: Free datasets + notebooks – <https://www.kaggle.com>
- SWAYAM Courses: Data Science & Economics modules
- DataCamp and Coursera (audit free content)

- World Bank Data Portal – <https://data.worldbank.org>
- RBI Database on Indian Economy (DBIE) – <https://dbie.rbi.org.in>

Semester- III

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Elective (3.I)

Course No: P2ECTE304

Title: Natural Resource Economics

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

b) Minor Tests- I & II: 20 each (Duration: 1hr)

Duration of Major Examination: 2:30 hrs

Natural Resource Economics

Syllabus for the **Examination to be held in Dec 2026, 2027 & 2028**

- **Course Outcome:** To make the students aware of importance of relationship between population, food and environment, agriculture impact on environment, and sustainable agriculture.
- To enlighten the students on the non-renewal resource, energy and economic systems, economics of recycling, economics of alternative energy and policies for energy transitions.
- To enable the students to understand comprehensively the mechanism of renewable resource management.
- To equip the students to apply the knowledge gained in research and writing on economics of forest and water management, policies for sustainable forest and water management and economics of pollution control.
- To trained the students to apply the skills obtained in research and writing on green economy; tradeoff between protecting the environment and the economy, trade and environment, economics of sustainable development and policies.

UNIT – I: Population, Food and Environment

Dynamics of Population Growth; Predicting Future Population Growth; Population Growth and Economic Growth; Ecological Perspectives on Population Growth; Feeding the World: Population and Food Supply; Agriculture's Impact on Environment; Sustainable Agriculture for the Future

UNIT – II: Nonrenewable Resource and Economic Systems

Supply of Nonrenewable Resource; Economic Theory of Nonrenewable Resource Use; Global Scarcity or Increasing Abundance; Economics of Recycling; Energy Trends and Projections; Energy Supplies; Renewable Energy Sources; Economics of Alternative Energy Futures; Policies for Energy Transition; Non-Renewable Energy Sources in India (Production, Consumption and Environmental Impact): Coal, Oil and Natural Gas, Nuclear Energy

UNIT - III: Renewable Resource Management and Pollution

Principles of Renewable Resource Management; Ecological and Economic Analysis of Renewable Resource; Economics of Forest Management; Policies for Sustainable Forest Management; Economics of Water Management; Policies for Sustainable Water Management; Economics of Pollution Control; Pollution Control Policies: Standards, Taxes and Permits; Policy Choice: Pollution Taxes Versus Tradable Permits; Renewable

energy Sources in India (Production, Consumption and Governmental Policies): Solar Energy, Hydropower, Bio-energy

Semester- III

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Elective (3.I)

Course No: P2ECTE304

Title: Natural Resource Economics

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

b) Minor Tests- I & II: 20 each (Duration: 1hr)

Duration of Major Examination: 2:30 hrs

Natural Resource Economics

Syllabus for the **Examination to be held in Dec 2026, 2027 & 2028**

UNIT - IV: Green Economy, Trade and Sustainable Development

Concept of Green Economy; Relationship between Economy and Environment: Environmental Kuznets Curve; Porter Hypothesis and Costs of Environmental Regulation; Tradeoff between Protecting the Environment and the Economy and Job Creation; Environmental Impact of Trade; Trade and Environment: Policy and Practice; Trade Agreements and Environment; Strategies for Sustainable Trade; Economics of Sustainable Development; Reforming Global Institutions; Policies for Sustainable Development

Note for Paper Setting: Minor Test -I and Minor Test - II each of 20 marks from each Unit

Test I and Test II

The Subjective Test of Test I and Test II consist of three short answer type questions (05 marks each). Students are required to answer two questions. (5*2=10 & 10 MCQs=20)

The Subjective Test of Test II consists of three short answer type questions (05 marks each). Students are required to answer two questions. (5*2=10 & 10 MCQs=20)

No preparatory holidays shall be provided for the Test I and Test II. Those candidates who have appeared in Test I and Test II and failed to get the minimum required marks i.e. **14 out of 40 will be eligible to re-appear in the Test I and Test II only once.**

Major Test: The Major test will comprise two sections, Section-A and Section-B. Section-A will have one compulsory question comprising of **10 parts (minimum 02 from each unit) of 03 marks each**. Section B will have **04 questions of 15 marks each to be set from the last two units (02 from each unit)**. In Section B students are required to attempt 01 question from each unit. **In major test there should not be a gap of more than two days in between two tests**

Basic Reading List

1. Bhattacharaya, Ravindra, 2002, Environmental Economics, Oxford University Press, New Delhi.
2. Boumal, W.J. and W.E. Oates (1988), The Theory of Environmental Policy, Cambridge University Press, Cambridge.
3. Bromely D.W. (Ed.) (1995), Handbook of Environmental Economics, Blackwell, London.
4. Fisher, A.C. (1981), Resource and Environmental Economics, Cambridge University Press, Cambridge.

5. Hanley, N., J.F. Shogern and B. White (1997), Environmental Economics in Theory and Practice, Macmillan, London.
6. Hussen, A.N. (1999), Principles of Environmental Economics, Routledge, London.
7. Jeroen, C.J., M. Van Den Bergh (1999), Handbook of Environmental and Resource Economics, Edward Elgar Publishing Limited, U.K.

Semester- III

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Elective (3.I)

Course No: P2ECTE304

Title: Natural Resource Economics

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

b) Minor Tests- I & II: 20 each (Duration: 1hr)

Duration of Major Examination: 2:30 hrs

Natural Resource Economics

Syllabus for the Examination to be held in Dec 2026, 2027 & 2028

8. Kolstad, C.D. (1999), Environmental Economics, Oxford University Press, New Delhi.
9. Pearce, D.W. and R. Turner (1991), Economics of Natural Resource Use and Environment, John Hopkins University Press, Baltimore.
10. Pennan, R.M. and J. McGilvary (1996), Natural Resource and Environmental Economics, Longman, London.
11. Sankar U. (Ed.) (2001), Environmental Economics,, Oxford University Press, New Delhi.
12. Tietenberg, T. (1994), Environmental Economics and Policy, Liarper Collins, New York.

Semester- III

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Elective (3.I)

Course No: P2ECTE305

Title: Labour Economics

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

b) Minor Tests- I & II: 20 each (Duration: 1hr)

Duration of Major Examination: 2:30 hrs

Title: Labour Economics

Syllabus for the Examination to be held in Dec 2026, 2027 & 2028

Course Outcome:

To evaluate and interpret the labour market policies of governments, unions and other actors in the labour market;

To Identify the actions of economic actors within the labour market, and identify various outcomes of the labour market, that are driven by economic incentives;

To critically analyze labour market quantitative research.

To Synthesize information on different actors and outcomes across the various labour markets topics:

To analyze labour market issues through the application of economic data and theories.

UNIT-1: Labour Markets and Employment

Nature and characteristics of labour markets in developing countries like India-Paradigms of labour market analysis Classical, neoclassical and dualistic economy Methods of recruitment and placement, Employment service organization in India Unemployment Concept, Types, and Measurement particularly in India Impact of rationalization and modernization on employment in India

Semester- III

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Elective (3.I)

Course No: P2ECTE305

Title: Labour Economics

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

b) Minor Tests- I & II: 20 each (Duration: 1hr)

Duration of Major Examination: 2:30 hrs

Title: Labour Economics

Syllabus for the Examination to be held in Dec 2026, 2027 & 2028

Classical, neo-classical and bargaining theories of wage determination- Concepts of minimum wage, living wage and fair wage Discrimination in labour markets- Inflation wage relationship at micro and macro levels, National wage policy- Wages and Wage Boards in India- Bonus system and profit sharing

UNIT-III: Industrial Relations

Labour movement Growth, pattern and structure of labour unions in India Achievements of labour unions, Causes of industrial disputes and their settlement and prevention mechanism- Role of tripartism- Current trends in collective bargaining - Role of judicial activism Labour legislation in India - International labour organization

UNIT-IV: State and Labour

Social security of labour Concept of social security and its evolution- Review of states policies with respect to social security and labour welfare in India Special problems of labour: Child labour, female labour, Discrimination and gender bias in treatment of labour- Labour market reforms Exit policy, need for safety nets, measures imparting flexibility in labour markets Second National Commission on Labour Globalization and labour markets.

Semester- III

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Elective (3.I)

Course No: P2ECTE305

Title: Labour Economics

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

b) Minor Tests- I & II: 20 each (Duration: 1hr)

Duration of Major Examination: 2:30 hrs

Title: Labour Economics

Syllabus for the **Examination to be held in Dec 2026, 2027 & 2028**

Note for Paper Setting: Minor Test -I and Minor Test - II each of 20 marks from Unit

Test I and Test II

The Subjective Test of Test I and Test II consist of three short answer type questions (05 marks each). Students are required to answer two questions. **No preparatory holidays shall be provided for the Test I and Test II.** Those candidates who have appeared in Test I and Test II and failed to get the minimum required marks i.e. 14 out of 40 will be eligible to re-appear in the Test I and Test II only once.

Major Test

The Major test will comprise two sections, Section-A and Section-B. Section-A will have one compulsory question comprising of 10 parts (minimum 02 from each unit) of 03 marks each. Section B will have 04 questions of 15 marks each to be set from the last two units (02 from each unit). In Section B students are required to attempt 01 question from each unit. **In major test there should not be a gap of more than two days in between two tests.**

Semester- III

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Elective (3.I)

Course No: P2ECTE305

Title: Labour Economics

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

b) Minor Tests- I & II: 20 each (Duration: 1hr)

Duration of Major Examination: 2:30 hrs

Title: Labour Economics

Syllabus for the **Examination to be held in Dec 2026, 2027 & 2028**

Basic Reading List

1. Bhagoliwal, T.N (1982), Economics of Labour and Industrial Relations, Sahitya Bhawan, 1982.
2. Tyagi, B.P. (2004), Labour Economics and Social Welfare,
3. Joshi, M.V. (1999), Labour Economics and Labour Problems, Atlantic publishers and Distributors, New Delhi.
4. Loveridge, R., A.L Mok(1979), Theory of labour Market Segmentation, MartinusNijhoff Social Science Devision, The hague, Boston, London.
5. Papola, T.S., P.P. Ghosh and A.N. Sharma (Eds.) (1993), Labour, employment and Industrial Relations in India, B.R. Publishing Corporation, New Delhi.
6. Saxena, R.C (1974), Labour Problems and Social Welfare. K. Nath & Co-Education Publishing & Printers, Meerut
7. Venkata Ratnam, C.S. (2001), Globalization and Labour- Management Relations: Dynamics of Change, Sage Publications/Response Books, New. Delhi.

Semester- III

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Elective (3.I)

Course No: P2ECTE306

Title: Indian Industry

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

b) Minor Tests- I & II: 20 each (Duration: 1hr)

Duration of Major Examination: 2:30 hrs

Indian Industry

Syllabus for the Examination to be held in Dec 2026, 2027 & 2028

- **Course outcomes:** To acquire the ability to analyse the Industrial policy in India & changes in it during Pre and Post Reform period.
- To examine the Role of Financial institutions in Industrial Development and to acquire the ability to Assess the Financial Health of a Firm.
- To be able to extend knowledge about Employment dimensions, Industrial Relations, Social security measures in Indian Industry.
- To understand Industrial legislations and recent Labour Reforms.
- To be able to examine and analyse the current problems of different industries and growth of the small scale industry in India and industrial sector in J&K.

Unit-I: Industrial Policy during Pre & Post-Reform Period:

Industrial Revolution 4.0, components, opportunities & Challenges, Industrial policy of 1948, 1956, 1977, 1980 of India and changes in it till 1990's. Industrial policy of 1991, Policy towards public sector enterprises since 1991 in India, Trends in industrial Development before and after 1991, National Manufacturing Policy 2011, Make In India and its evaluation, Production Linked incentives, Start Up India, Stand Up India

Unit-2 Industrial Finance:

The Need for finance, types of finance, sources of finance, Choice of funding. Money & Capital markets in India: Common Money market instruments, Structure of Capital Market Primary versus Secondary market, financial Instruments in Capital Market. Difference between Money Market and Capital Market. Role of Capital Market in India's Industrial Growth. Financial Statement- Balance Sheet, Profit & Loss Statement, Assessing the Financial Soundness of a firm through Ratio – Analysis.

Unit-3: Industrial Labor:

Dynamics of Employment in India, Employment dimensions of Indian Industry, The Industrial Relations: Policy of the Government, Industrial legislations, Social Security Measures in India (organized and unorganized sectors) and its critical review. Labour reforms in India: New Labour Codes 2020 on Wages, on Social Security, Occupational Safety, Health and Working Conditions.

Semester- III

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Elective (3.I)

Course No: P2ECTE306

Title: Indian Industry

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

b) Minor Tests- I & II: 20 each (Duration: 1hr)

Duration of Major Examination: 2:30 hrs

Indian Industry

Syllabus for the Examination to be held in Dec 2026, 2027 & 2028

Unit-4:Current Problems of selected industries: Iron and steel Industry in India ,Automobile industry, Pharmaceutical industry in India, Small Scale industrial policy prior to 1991 and after 1991. Comprehensive Policy package 2000 and recent policy measures for promotion of MSMEs. Problems of Small scale sector, Industrial Policy (2021-2030) of Jammu & Kashmir. Emerging Areas of Industrial Growth in J&k UT after 2019.

Test I and Test II

The Subjective Test of Test I and Test II consist of three short answer type questions (05 marks each). Students are required to answer two questions. (5*2=10 & 10 MCQs=20)

The Subjective Test of Test II consist of three short answer type questions (05 marks each). Students are required to answer two questions. (5*2=10 & 10 MCQs=20)

No preparatory holidays shall be provided for the Test I and Test II. Those candidates who have appeared in Test I and Test II and failed to get the minimum required marks i.e. **14 out of 40 will be eligible to re-appear in the Test I and Test II only once.**

Major Test

The Major test will comprise two sections, Section-A and Section-B. Section-A will have one compulsory question comprising of **10 parts (minimum 02 from each unit) of 03 marks each.** Section B will have **04 questions of 15 marks each to be set from the last two units (02 from each unit).** In Section B students are required to attempt 01 question from each unit. **In major test there should not be a gap of more than two days in between two tests.**

Semester- III

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Elective (3.I)

Course No: P2ECTE306

Title: Indian Industry

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

b) Minor Tests- I & II: 20 each (Duration: 1hr)

Duration of Major Examination: 2:30 hrs

Indian Industry

Syllabus for the Examination to be held in Dec 2026, 2027 & 2028

Basic Readings:

1. Ahluwalia I.J. (1985), Industrial Growth in India, Oxford University Press, New Delhi.
2. Barthwal, R.R. (1985) Industrial Economics, Wiley Eastern.
3. Cherunilam, F. (1994) Industrial Economics: Indian Perspective (3rd Edition), Himalaya Publishing House, Mumbai.
4. Desai, B. (1999), Industrial Economy in India (3rd Edition) Himalaya Publishing House, Mumbai.
5. Kuchhal, S.C. (1980), Industrial Economy of India (5th Edition) Chaitanya Publishing House, Allahabad.
6. A.N. Sadhu & A. Singh, (1988), Industrial Economics, Himalaya Publishing House, Bombay.
7. S.S.M. Desai and Nirmal Bhalerao (2002) Industrial Economy of India, Himalaya Publishing House, Delhi.
8. Francis Cherunilam, Industrial Economics.
9. Dutt & Sundhram's Indian Economy, (Various Editions).
10. Mishra & Puri, Indian Economy, Himalaya Publishing House, Mumbai. (Various Editions).
11. Uma Kapilla, Indian Economy.
12. Matian Nuissian, Industrial Economics.
13. Indian Industrial Survey 2001-2024.
14. P.G. Gadgil & Gadgil, Industrial Economics of India.
15. Planning Commission Government of India, Recent Policy Papers.
16. The World competitiveness Yearbooks-2010, 2011, 2012.
17. Rameshwar Pandya, Skill Development & Entrepreneurship in India, New Century Publications New Delhi, India, 2016.
18. Different websites of Department of Industrial Policy & Promotion of India.
19. Planning commission Document of 12th five year plan.
20. Websites:
Ministry of Skill Development and Entrepreneurship. Ministry of Human Resource Development. Ministry of Labour & Employment. Ministry of Micro, Small & Medium Enterprises.

Semester- III

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Elective (3.I)

Course No: P2ECTE307

Title: Gender Economics

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

b) Minor Tests- I & II: 20 each (Duration: 1hr)

Duration of Major Examination: 2:30 hrs

Gender Economics

Syllabus for the Examination to be held in Dec 2026, 2027 & 2028

- **Course Outcome:** To understand the various concepts and development of policies on gender and choices executed by women concerning marriage and fertility.
- To study the labour market participation of women, alongside government policies targeting those decisions.
- To gain experience in evaluating how economic theory and practice fits into the larger social sciences goal of describing human behaviour by focusing on women and the family

UNIT – I: Introduction to Economics of Gender

Why study the economics of gender; gender and development; gender and confidence; balance of gender power; missing women and son preference; gender equality and development; feminist criticism of development indices. Institutionalization of WID- the UN, CEDAW and Equity Agenda. From WID to WAD to GAD; The Challenges from Post modernism and women of the Global South; Rise of Neo-liberal Policies; feminist Critiques of Neoliberal Policies; the Case of WDR 2012; Gender planning Techniques –paradigm shift from women's well being to women's empowerment.

UNIT – II: Women and Gender in Economics

Historical view on Gender and Economic Analysis ; Neoclassical approach ; Marxian approach ; institutional economics ; Critique of the mainstream Feminist Economics ; Critique of Homo-Economicus; the Rhetoric of economics ; Methodological Convergence – Gender as a central category of Economic Analysis; Economy as Constituted by Provisioning Activities ; Human well –being as the Central Measure of Economic Success; Feminist Ecological Economics ; Feminization of poverty; gender budgeting , future of gender economics; gender and SDGs;

UNIT – III: Economics of Marriage and Family

Marriage and the family –an empirical approach; Review of relevant empirical methods in economics; Gains from Marriage –supply /Demand for Marriage – Partner Search and Matching; economics of fertility; the Fertility Model- Quantity-Quality Trade-off; marriage and fertility – 21st century trends; marriage and divorce- Changing ; feminist and socialist analysis; the marriage market ; life cycle of labour supply – women's life cycle labour supply; gender disparity in high academic achievement; marriage and fertility in developing countries.

Semester- III

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Elective (3.I)

Course No: P2ECTE307

Title: Gender Economics

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

b) Minor Tests- I & II: 20 each (Duration: 1hr)

Duration of Major Examination: 2:30 hrs

Gender Economics

Syllabus for the Examination to be held in Dec 2026, 2027 & 2028

UNIT – IV: Labour Market Inequalities

Women discrimination in the labour market; Unpaid Work –Conceptual and Measurement Issues; Women's labour force participation – historical and current trends; the gender gap in earning; theories and survey the available evidence; Occupational segregation in occupation, education and gender, compensating wage differentials, gender discrimination, gender differentials across countries; women and land rights in India; revisiting global feminization through flexible labour; globalisation, labour standards and women's rights-dilemmas of collective inaction in an interdependent world.

Test I and Test II

The Subjective Test of Test I and Test II consist of three short answer type questions (05 marks each). Students are required to answer two questions. (5*2=10 & 10 MCQs=20)

The Subjective Test of Test II consist of three short answer type questions (05 marks each). Students are required to answer two questions. (5*2=10 & 10 MCQs=20)

No preparatory holidays shall be provided for the Test I and Test II. Those candidates who have appeared in Test I and Test II and failed to get the minimum required marks i.e. **14 out of 40 will be eligible to re-appear in the Test I and Test II only once.**

Major Test

The Major test will comprise two sections, Section-A and Section-B. Section-A will have one compulsory question comprising of **10 parts (minimum 02 from each unit) of 03 marks each.** Section B will have **04 questions of 15 marks each to be set from the last two units (02 from each unit).** In Section B students are required to attempt 01 question from each unit. **In major test there should not be a gap of more than two days in between two tests**

Semester- III

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Elective (3.I)

Course No: P2ECTE307

Title: Gender Economics

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

b) Minor Tests- I & II: 20 each (Duration: 1hr)

Duration of Major Examination: 2:30 hrs

Gender Economics

Syllabus for the Examination to be held in Dec 2026, 2027 & 2028

Basic Reading List

1. Agarwal, B. (1994). A Field of One's Own: Gender and Land Rights in South Asia,
2. Agarwal, Bina 1988. "Who Sows? Who Reaps? Women and land right in India." The journal of Peasant Studies 15 (4) pp. 531-581.
3. Agnihotri, S.B. (2000). Sex Ratio in Indian Population: A Fresh Exploration, Sage Publications, New Delhi.
4. Alesina, A.F., P. Giuliano and N. Nunn. 2013 "On the origins of gender roles: women and the plough," Quarterly Journal of Economics, 128, pp. 469-530.
5. AmarjaNerulkar and Vibhuti Patel: Women and Development, SNDT Women's University, 1995.
6. Amsden, A.H. (ed.). (1980). The Economics of Women and Work, Penguin,
7. Asha Kapur Mehta "Recasting Indices for Developing Countries- A Gender Empowerment Measure", Economic and Political Weekly, October 26, 1996. WS 80-WS86.
8. Balu, Francine and Kahn, Lawrence M. and Waldfogel, Jane, "Understanding Young Women's Marriage Decisions: The Role of Labor and Marriage Market Conditions." Industrial and Labor Relations Review, Vol. 53, No. 4 (July 2000) pp. 624-647.
9. Bardasi, Elena and Quentin Wodon. 2010 "Working long hours and having no choice: Time-poverty in Gunnea. " Feminist Economics. 16 (3). Pp. 45-78.
10. Baud, I.S.A. (1992). Forms and Production and Women's Labour: Gender Aspects of Barriers, Benefits and Politics, John Hopkins, Baltimore.
11. Beneria, Lourdes and Gita Sen, 1981, "Accumulation, Reproduction , and Women's Role in Economics Development Revisited" Signs 7(2).
12. Berik, Gunseli. 1997. "The need for crossing the method boundaries in Feminist research." Feminist Economics 3(2). pp. 141-151
13. Bloch, Francis and Ryder, Harl, "Two-side Search, Marriages and Matchmakers." International Economics Review, Vol. 41, No. 1 (February 2000), pp. 93-115.
14. Boserup, E.(1970). Women's Role in Economic Development, George Allen and Unwin,
15. Cagatay, N. and S. Ozler. 1995. "Feminization of the Labor Force: The Effects of Long-Term Development and Structural Adjustment." World Development 23(11): 1883-1894. Cambridge Univ. Press, Cambridge.
16. Chant, Sylvia. 2008. "The 'feminization of poverty' and the Feiminisation of Anti-poverty Programmes: Room for Revision?" Journal of Development Studies, 44 (2).

Semester- III

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Elective (3.I)

Course No: P2ECTE307

Title: Gender Economics

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

b) Minor Tests- I & II: 20 each (Duration: 1hr)

Duration of Major Examination: 2:30 hrs

Gender Economics

Syllabus for the Examination to be held in Dec 2026, 2027 & 2028

17. Custers, P. (1997). Capital Accumulation and Women's Labour in Asian Economics, Vistaar, New Delhi.
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23. Engles, F. (1985). The Origin of the Family, Private Property and the State, Progress for Women, New Delhi.
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Semester- III

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Elective (3.I)

Course No: P2ECTE307

Title: Gender Economics

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

b) Minor Tests- I & II: 20 each (Duration: 1hr)

Duration of Major Examination: 2:30 hrs

Gender Economics

Syllabus for the Examination to be held in Dec 2026, 2027 & 2028

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40. Kabeer, Naila. 2004. "Globalization, Labour Standards, and Women's Rights: Dilemmas of Collective (In) action in an Interdependent World." *Feminist Economics* 10 (1): 3-35.
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45. Kuhn, A. and A.N. Wolpe (eds.). (1978) *Feminism and Materialism*, Routledge and Kegan London.

Semester- III

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Elective (3.I)

Course No: P2ECTE307

Title: Gender Economics

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

b) Minor Tests- I & II: 20 each (Duration: 1hr)

Duration of Major Examination: 2:30 hrs

Gender Economics

Syllabus for the Examination to be held in Dec 2026, 2027 & 2028

46. Levtoy, Ruti, et al. 2014. "Pathways to Gender-equitable Men: Finding from the International Men and Gender Equality Survey in Eight Countries." Men and Masculinities.
47. Mazumdar, V. (1979) Symbols of Power: Studies on the Political Status of Woman in India, Allied, Delhi.
48. Medeiros, Marcelo and Joana Costa. 2010. "The feminisation of poverty : a widespread phenomena?" In the International Handbook of Gender and poverty by Sylvia Chant. Edward Elgar. Northampton. PP. 95-100
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50. Michael Baker and Kevin Milligan. 2013. "Boy-Girl Differences in Parental Time Investments: Evidence from Three Countries" NBER Working Paper no. 18893, March 2013.
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56. Papola, T.S. and A.N. Sharma (eds.) (1999). Gender and Employment in India, Vikas Publishing House, New Delhi.
57. Patel, Vibhuti (2002) Women's Challenges of the New Millennium, Gyan Publications, Delhi.
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Semester- III

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Elective (3.I)

Course No: P2ECTE307

Title: Gender Economics

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

b) Minor Tests- I & II: 20 each (Duration: 1hr)

Duration of Major Examination: 2:30 hrs

Gender Economics

Syllabus for the Examination to be held in Dec 2026, 2027 & 2028

61. Robert H. Frank, "When it comes to a Search for a Spouse, Supply and Demand is only the Start." The new York Times (December 21, 2006)
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Semester- III
Syllabi of Economics for Two Year P.G Programme as per NEP 2020
Elective (3.I)

Course No: P2ECTE308

Title: Indian Agriculture

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

b) Minor Tests- I & II: 20 each (Duration: 1hr)

Duration of Major Examination: 2:30 hrs

Indian Agriculture

Syllabus for the Examination to be held in Dec 2026, 2027 & 2028

Course outcomes:

- Able to comprehend the role and function of agriculture in the economic development of Indian economy.
- To understand and compare the growth trajectory of production and productivity before and after green revolution.
- To land utilization pattern and study critically land reforms in India.
- To understand the fundamentals of cooperative movement in India.
- To study and analyze the extent of agriculture unemployment and problem of rural indebtedness in India.
- To understand the basic issues regarding agriculture credit system in India.
- Generate awareness and critically analysis about the role and function of Public Distribution in India
- To gain the knowledge about the growth and importance of agriculture in international context

Unit : I – Role , Problems and Development of agriculture in India

Contribution of agriculture in national economy, Trends in agricultural production and productivity; Causes of its backwardness, Policies for agriculture development. Land utilization – classification of land, change in land utilization pattern, Cropping pattern- determinants of cropping patterns, land under food and non – food crops, New Agricultural Strategy-Green revolution: Ingredients and its impact on Production, employment, inter- personal and regional inequality; Post Green Revolution and New Economic reforms; Agrarian crisis in India; Agriculture Development and Swaminathan Commission Report: Main Features

Unit: II- Land Reforms and Agriculture Labour in India

Land reforms in India-land tenure systems and tenancy reforms, objectives, measures and abolition of intermediaries, reorganization of agriculture and progress of land reforms; Nature and extent of agricultural labour in India; factors responsible for marginalization of rural labour, Programmes for improving the conditions of agricultural labour; agricultural wages in India, male-female wage differences; Rural labour unemployment-estimates and magnitude, State policy towards rural employment; Magnitude of rural -urban migration in India, factors responsible for migration and problems.

Semester- III
Syllabi of Economics for Two Year P.G Programme as per NEP 2020
Elective (3.I)

Course No: P2ECTE308

Title: Indian Agriculture

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

b) Minor Tests- I & II: 20 each (Duration: 1hr)

Duration of Major Examination: 2:30 hrs

Indian Agriculture
Syllabus for the Examination to be held in Dec 2026, 2027 & 2028
Unit: III- Agriculture Cooperation and Agriculture Finance

Cooperative movement in India: Problems and Prospects of cooperative institutions. Need, Characteristics and sources of Agriculture finance- institutional and non-institutional, Reorganization of rural credit-cooperatives, Commercial banks, Regional Rural Banks, Role of NABARD. Extent of rural indebtedness' in India after independence: causes of indebtedness and impact of legislation measures.

Unit: IV- Agricultural Growth in India and External Sector

Recent trends in agricultural growth in India; Inter-regional variations in growth of output and productivity, Supply of inputs –irrigation (watershed Programme, Groundwater Problem, water harvesting and government policies), power, seed and fertilizers; Impact of subsidies on agriculture inputs; Food Security in India - Public Distribution System, Targeted Public Distribution System; Capital formation in Indian agriculture, Indian agriculture and WTO : Issues and concerns

Note for Paper Setting: Minor Test -I and Minor Test - II each of 20 marks from Unit

Test I and Test II

The Subjective Test of Test I and Test II consist of three short answer type questions (05 marks each). Students are required to answer two questions. (5*2=10 & 10 MCQs=20)

The Subjective Test of Test II consist of three short answer type questions (05 marks each). Students are required to answer two questions. (5*2=10 & 10 MCQs=20)

No preparatory holidays shall be provided for the Test I and Test II. Those candidates who have appeared in Test I and Test II and failed to get the minimum required marks i.e. **14 out of 40 will be eligible to re-appear in the Test I and Test II only once.**

Major Test

The Major test will comprise two sections, Section-A and Section-B. Section-A will have one compulsory question comprising of **10 parts (minimum 02 from each unit) of 03 marks each.** Section B will have **04 questions of 15 marks each to be set from the last two units (02 from each**

unit). In Section B students are required to attempt 01 question from each unit. **In major test there should not be a gap of more than two days in between two tests.**

Semester- III

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Elective (3.I)

Course No: P2ECTE308

Title: Indian Agriculture

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

b) Minor Tests- I & II: 20 each (Duration: 1hr)

Duration of Major Examination: 2:30 hrs

Indian Agriculture

Syllabus for the Examination to be held in Dec 2026, 2027 & 2028

BASIC READING LIST

- Bhaduri, A. (1984), The Economic Structure of Backward Agriculture, Macmillan, Delhi.
- Bilgrami, S.AR. (1996), Agricultural Economics, Himalaya Publishing House, Delhi.
- Dantwala, M.L. et. al. (1991), Indian Agricultural Development Science Independence, Oxford & IBH, New Delhi.
- Government of India (1 976), Report of the National Commission on Agriculture, New Delhi.
- Government of India, Economic Survey (Annual), New Delhi.
- Gulati, A., and T. Kelly (1999) Trade Liberalization and Indian Agriculture, Oxford, University Press, new Delhi.
- Joshi, P.C. (1975), Land Reforms in India : Trends and prospects, Allied Publishers, Bombay.
- Kahlon, A.S.f and Tyagi D.S. (1983). Agriculture Price Policy in India, Allied Publishers, New Delhi.
- Rao, C.H. Flanumantha (1 975'), Agriculture Growth. Rural Poverty and Environmental Degradation in India Oxford University Press, New Delhi.
- Reserve Bank of India, Report on Currency and Finance (Annual), Mumbai.
- Rudra, A. (1982), Indian Agriculture Economic: Myths and reality, Allied Publishers, New Delhi.
- Saini, G.R. (1979), Farm Siz, Resource Use Efficiency arid Income Distribution, Allied Publishers, New Delhi.

ADDITIONAL READING LIST:

Unit—I

- Bardhan, P. (1984), Land, Labour and Rural Poverty, Oxford University Press, New Delhi.
- Chadha, G.K. and A.N. Sharma (1997). Growth Employment and Poverty : Change and 'Continuity in Rural India, Vikas Publishing, New Delhi.
- Chakarvarty, S. (1987), Development Planning :The Indian Experience, Ox1rd University Press, New Delhi ,
- Chaudhary, P. (1972), Readings in Indian Agricultural Development, George Allen & Unwin, London.
- Chelliah, Raja J. and R. Sudarshan (1999) Income, Poverty and Beyond: Human Development in India, Social Science, Press, New Delhi.
- Dantwala. M.L . (I 996). Dilemmas of Growth :The Indian Experience, Sage Publications, New Delhi

Semester- III

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Elective (3.I)

Course No: P2ECTE308

Title: Indian Agriculture

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

b) Minor Tests- I & II: 20 each (Duration: 1hr)

Duration of Major Examination: 2:30 hrs

Indian Agriculture

Syllabus for the Examination to be held in Dec 2026, 2027 & 2028

- Ghatak, S. and K. Ingerscent (1984), Agriculture and Economic Development Select books, New Delhi.
- Government of India, Five Year Plans, New Delhi.
- Meier G.M. (1995), Leading Issues in Economic Development Oxford University Press. New Delhi.
- Raj, K.N. et. a. (1988), Essays in the Commercialization of Indian Agriculture, Oxford University Press, New Delhi.
- Thamarajakshi, R. (1994). Intersectoral Relationship in a Developing Economy, Academic Foundation, Delhi.

Unit -2

- Bhardwaj, K. (1974), Production Conditions in Indian Agriculture. Cambridge, University Press. Cambridge.
- Brahmananda, P.R. and V.R. Panchumukhi (Eds.) (1987), The Development Process of Indian Economy, Himalaya Publishing house, Bombay.
- Chakarvarty, S. (1987), Development Planning : The Indian Experience. Oxford University Press, New Delhi.
- Dantwala, M.L. (1996), Dilemmas of Growth : The Indian Experience, Sage Publications, New Delhi.
- Desai. U. and A. Vaidyanathan (Eds.) (1995), Strategic Issues in Future Growth of Fertilizer Use in India. Macmillan, New Delhi
- Ghatak, S. and K. Ingerscent (1984). Agriculture and Economic Development, Selectbooks, New Delhi. Raj, K.N. et (1988), Essays in The Commercialization of Indian Agriculture. Oxford University Press, New Delhi.

Semester- III

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Elective (3.I)

Course No: P2ECTE308

Title: Indian Agriculture

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

b) Minor Tests- I & II: 20 each (Duration: 1hr)

Duration of Major Examination: 2:30 hrs

Indian Agriculture

Syllabus for the Examination to be held in Dec 2026, 2027 & 2028

- Brahmananda. P.R. and V.R Panchumukhi (Eds.) (1987).The Development Process of the Indian Economy, Himalaya Publishing House, Bombay.
- Chaudhary, P. (1972), Readings in Indian Agricultural Development, George Allen & Unwin, London.
- Dantwala, Mi. (1996), Dilemmas of Growth The Indian Experience, Sage Publishing, New Delhi.
- Desai. G and A. Vaidyanathan (Eds.) 1995), Strategic Issues in Future Growth of Fertiliser Use in India, Macmillan, New Delhi.
- Ghatak, S. and K Ingerscent (1984), Agriculture and Economic Development, Selectbooks, New Delhi.
- Bhalla G.S. (1994), Economic Liberalisation and Indian Agriculture, Institute for Studies in Industrial Development, New Delhi.
- Brahmananda, P.R. and MR. Panchumukhi (Eds.) (1987), The Development Process of the Indian Economy, Himalaya Publishing House, Bombay.
- Chadha, G.K. and A.N. Sharma(I 997), Growth, Employment and Poverty: Change and Continuity in Rural India, Vikas Publishing New Delhi.
- Chaudhary, P. (1972), Readings in Indian Agricultural Development, George Allen & Unwin, London.
- Chelliah, Raja J. and R Sudamhan (1999) Income Poverty and Beyond : Human Development in India, Social Science Press New Delhi.
- Bhalla, G.S. (1994), Economic Liberalization and India Agriculture, Institute for Studies in Industrial Development, New Delhi.

Semester- III

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Elective (3.I)

Course No: P2ECTE308

Title: Indian Agriculture

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

b) Minor Tests- I & II: 20 each (Duration: 1hr)

Duration of Major Examination: 2:30 hrs

Indian Agriculture

Syllabus for the Examination to be held in Dec 2026, 2027 & 2028

- Chelliah, Raja J. and R Sudarshan (1999) Income Poverty and Beyond : Human Development in India, Scial Science Press, New Delhi.
- Dantwala, M.L. (1996), Dilemmas of Growth The Indian Experience, Sage Publishing, New Delhi.
- Desai, G. and A. Vaidyanathan (Eds.) 1995), Strategic Issues in Future Growth of Fertiliser Use in India, Macmillan, New Delhi.
- Soni, R.N, (1995), Leading Issues in Agricultural Economics, Arihant Press, Jalandhar.
- Vidyanathan, A. (1995), The Indian Economy: Crisis, Response and Prospects, Orient Longmans, New Delhi

Semester- III

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Elective (3.II)
(One course to be opted)

Course No: P2ECTE309

Title: Energy Economics

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

b) Minor Tests- I & II: 20 each (Duration: 1hr)

Duration of Major Examination: 2:30 hrs

Energy Economics

Syllabus for the Examination to be held in Dec 2026, 2027 & 2028

- **Course outcome:** To learn to apply theoretical knowledge to understand real economic issues.
- To equip students with required knowledge to address the challenges of the energy sector

UNIT – I: Introduction to Energy Economics

Scope and Importance, Types of Energy: Primary Energy, Secondary Energy, Energy Sources: Renewable and Non-Conventional, Primacy of Energy in the Process of Economic Development; Factors determining the demand for energy; Effects of Energy Shortage.

UNIT – II: Energy Markets & Planning

Free Market Optimization; Market Response to Non-marginal Price Changes; Equity Issues & Market Failures and Non-Market Objectives, Implications of Decreasing Costs Conditions on Energy Markets; Energy Planning: Scope, Objectives, Policy Tools and Constraints.

UNIT – III: Energy Conservation

Economics of Energy Conservation, Effects of Market Imperfections on energy conservation and Policy Options; Principal Practical Possibilities of Energy Conservation in Energy Producing and Energy Using Sectors, Energy Efficiency, Energy Service Companies (ESCOs) and their Energy Saving Models: Guaranteed Saving Model and Shared Saving Model, Growth of ESCOs in India, Energy Input-Output Analysis, Main Features of India's Energy Policy.

Semester- III

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

**Elective (3.II)
(One course to be opted)**

Course No: P2ECTE309

Title: Energy Economics

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

b) Minor Tests- I & II: 20 each (Duration: 1hr)

Duration of Major Examination: 2:30 hrs

Energy Economics

Syllabus for the Examination to be held in Dec 2026, 2027 & 2028

UNIT – IV: Energy Pricing and Demand Management

Energy Markets and Role of Demand Management: Objectives and Need for Energy Planning& Demand Management, Planning Procedures and Problems of Implementation, Integrated Framework for Energy Pricing: Objectives, Basic Pricing Principles, Short-Run V/S Long-Run Marginal Cost Pricing, Peak-Load Off-Load Pricing as tool of Demand Management, Shadow Pricing, Pricing of Exhaustible/ Non-renewable Energy Sources, Energy Demand Analysis& Forecasting: Importance and Methods.

Note for Paper Setting: Minor Test -I and Minor Test - II each of 20 marks from Unit

Test I and Test II

The Subjective Test of Test I and Test II consist of three short answer type questions (05 marks each). Students are required to answer two questions. (5*2=10 &10 MCQs=20)

The Subjective Test of Test II consist of three short answer type questions (05 marks each). Students are required to answer two questions. (5*2=10 &10 MCQs=20)

No preparatory holidays shall be provided for the Test I and Test II. Those candidates who have appeared in Test I and Test II and failed to get the minimum required marks i.e. **14 out of 40 will be eligible to re-appear in the Test I and Test II only once.**

Major Test

The Major test will comprise two sections, Section-A and Section-B. Section-A will have one compulsory question comprising of **10 parts (minimum 02 from each unit) of 03 marks each**. Section B will have **04 questions of 15 marks each to be set from the last two units (02 from each unit)**. In Section B students are required to attempt 01 question from each unit. **In major test there should not be a gap of more than two days in between two tests.**

Semester- III

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Elective (3.II)

(One course to be opted)

Course No: P2ECTE309

Title: Energy Economics

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

**b) Minor Tests- I & II: 20 each
(Duration: 1hr)**

Duration of Major Examination: 2:30 hrs

Energy Economics

Syllabus for the Examination to be held in Dec 2026, 2027 & 2028

Basic Reading List

1. Mohan Munasinghe & Gunter Schramm (1983), Energy Economics, Demand Management and Conservation Policies, Van Nostrand Reinhold Company, New York.
2. Mohan Munasinghe & Peter Meier (2009), Energy Policy Analysis & Modelling, Cambridge Energy & Environment Series
3. Parikh Jyoti (1997) Energy Models for 2000 and Beyond, Tata McGraw Hill
4. Chopra S.K. Energy Policy for India: Towards Sustainable Energy Security in India in India in 21st Century, Oxford & IBH Publishers.
5. Guido Buenstorf (2004), Economics of Energy and Production Processes: An Evolutionary Approach, Edward Elgar Publishing, ISBN10:184376461X Hardback

Semester- III

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Elective (3.II)

(One course to be opted)

Course No: P2ECTE310

Title: Demography and Climate Change

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

**b) Minor Tests- I & II: 20 each
(Duration: 1hr)**

Duration of Major Examination: 2:30 hrs

Demography and Climate Change

Syllabus for the Examination to be held in Dec 2026, 2027 & 2028

- **Course outcome:** To make the students aware of population dynamics and climate change in global perspective and in the context of developing countries.
- To equip the students to pursue research and writing on water and land, disasters and displacement, health and environment.
- To train the students to apply the knowledge gained in understanding the gender dimensions of climate change and its impact on women, children and youth.
- To apply the knowledge imparted in gender mainstreaming in resource management.
- To make students deal comprehensively with migration and urbanization in context of climate change and adaptation and mitigation aspects in urban planning.
- To train the students to understand relationship between population and resource sustainability, demographic divide and sustainable development and role of communities in stabilizing climate and climate adaptation.

UNIT – I: Population Dynamics and Climate Change

Concepts of Population Dynamics and Climate Change Adaptation; Population, Greenhouse Gas Emissions and Climate Change; Population and Climate Change; Population and Water Scarcity; Population and Land Degradation; Climate-related Disasters and Displacement; Population, Health and Environment; Limits to Population Growth; Consequences of Population, Health, and Environmental Interactions; Impact of Climate Change

Semester- III
Syllabi of Economics for Two Year P.G Programme as per NEP 2020
Elective (3.II)
(One course to be opted)

Course No: P2ECTE310

Title: Demography and Climate Change

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

**b) Minor Tests- I & II: 20 each
(Duration: 1hr)**

Duration of Major Examination: 2:30 hrs

Demography and Climate Change
Syllabus for the Examination to be held in Dec 2026, 2027 & 2028
UNIT – II: Gender and Climate Change

Population, Gender and Climate Change; Women and Climate Change; Youth and Climate Change; Climate Change, Young Women and Millennium Development Goals; Children and Climate Change; Children, Environment and Health; Population and Reproductive Health in National Adaptation Programmes of Action (NAPAs) for Climate Change; Climate Change and Gender Equality and Adaptation Plans; Gender Mainstreaming and Water Resource Management; Gender Dimensions of Environmental Policies and Programs; Gender, Climate Adaptation and Climate Change Policy

UNIT – III: Migration, Urbanization and Climate Change

Typology of Mobility in the Context of Climate Change; Cities and Climate Change; Climate Change and Population Mobility; Policymakers' Perceptions and Evidence of Climate Migration; Implications of Population Growth and Urbanization for Climate Change; Urbanization, Greenhouse Gas Emissions and Climate Vulnerability; Adapting Urban Settlements to Climate Change; Climate Related Disasters and Displacement; Climate Change Mitigation and Transportation and Urban Infrastructure; Urban Planning for Mitigation and Adaptation; Adapting Cities to Climate Change

UNIT – IV: Population and Sustainability

Population, Resource Sustainability and Environmental Services; Population, Resource Sustainability and Institutions; Linkages between Population Dynamics and Sustainable Development; Asset Adaptation to Urban Climate Change; Demographic Divide and Sustainable Development; Population and Environmental Sustainability; Environmental Opportunities and Threats and Natural Resource Strategy; Population and Stabilizing Climate and Environmental Services in Communities; Community-Level Adaptation Deficit, Finance, Advocacy and Measures; Population and Future of Biological Biodiversity

Semester- III
Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Elective (3.II)
(One course to be opted)

Course No: P2ECTE310

Title: Demography and Climate Change

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

b) Minor Tests- I & II: 20 each
(Duration: 1hr)

Duration of Major Examination: 2:30 hrs

Demography and Climate Change

Syllabus for the Examination to be held in Dec 2026, 2027 & 2028

Note for Paper Setting: Minor Test -I and Minor Test - II each of 20 marks from Unit

Test I and Test II

The Subjective Test of Test I and Test II consist of three short answer type questions (05 marks each). Students are required to answer two questions. (5*2=10 & 10 MCQs=20)

The Subjective Test of Test II consist of three short answer type questions (05 marks each). Students are required to answer two questions. (5*2=10 & 10 MCQs=20) **No preparatory holidays shall be provided for the Test I and Test II.** Those candidates who have appeared in Test I and Test II and failed to get the minimum required marks i.e. **14 out of 40 will be eligible to re-appear in the Test I and Test II only once.**

Major Test: The Major test will comprise two sections, Section-A and Section-B. Section-A will have one compulsory question comprising of **10 parts (minimum 02 from each unit) of 03 marks each.** Section B will have **04 questions of 15 marks each to be set from the last two units (02 from each unit).** In Section B students are required to attempt 01 question from each unit. **In major test there should not be a gap of more than two days in between two tests.**

Basic Reading List

1. Barnett, T.P., J.C. Adam, and D.P. Lettenmaier. 2005. "Potential impacts of a warming climate on water availability in snow dominated regions." *Nature* 438:303-309.
2. Biswas, Asit K. (1992), "Sustainable Water Development: A Global Perspective," *Water International* Vol. 17, No. 2.
3. Center for Hazards and Risk Research (CHRR), Center for International Earth Science Information (CIESIN), and International Bank for Reconstruction and Development/The World Bank (2005). *Global Multi-hazard Frequency and Distribution*. CHRR. Columbia University.
4. Cole, Matthew A., and Eric Neumayer. 2004. "Examining the impacts of demographic factors on air pollution." *Population and Environment* 26:5-21.
5. Leiwen, Jiang and Karen Hardee (2009), *How Do Recent Population Trends Matter to Climate Change?* Population Action International, Washington, D.C.
6. Dietz, T., and E. A. Rosa. 1997. "Effects of population and affluence on CO₂ emissions." *Proceedings of the National Academy of Sciences of the USA* 94:175-179.

Semester- III

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Elective (3.II)
(One course to be opted)

Course No: P2ECTE310

Title: Demography and Climate Change

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

b) Minor Tests- I & II: 20 each (Duration: 1hr)

Duration of Major Examination: 2:30 hrs

Demography and Climate Change

Syllabus for the Examination to be held in Dec 2026, 2027 & 2028

7. Falkenmark, Malin and Carl Widstrand (1992), *Population and Water Resources: A Delicate Balance*, Population Bulletin, Population Reference Bureau, Washington, DC.
8. IPCC. 2007. *Climate Change 2007: Impacts, Adaptation and Vulnerability. Contribution of Working Group II to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change*. Cambridge, UK: Cambridge University Press.
9. Jiang, L., and K. Hardee (2009), "How Do Recent Population Trends Matter to Climate Change?" Working Paper, No. 1. Washington, D.C.: Population Action International.
10. Jones, Donald W. 1989. "Urbanization and energy use in economic development." *The Energy Journal* 10:29-44.
11. Liu, Jianguo, G. C. Daily, P. Ehrlich, and G. W. Luck. 2003. "Effects of household dynamics on resource consumption and biodiversity." *Nature* 421:530-533.
12. Mackellar, F. Landis, Wolfgang Lutz, Christopher Prinz, and Anne Goujon. 1995. "Population, households and CO2 emission." *Population and Development Review* 21:849-765.
13. McGranahan, Gordon, Deborah Balk, and Bridget Anderson. 2007. "The rising tide: assessing the risks of climate change and human settlements in low elevation coastal zones." *Environment and Urbanization* 19:17-37.
14. Maddison, A. 2004. *The World Economy: Vol. 2: Historical Statistics*. Paris: Organisation for Economic Co-operation and Development. Website: www.theworldeconomy.org/publications/worldeconomy/statistics.htm.
15. Marland, G., A. Boden, and R. J. Andres (2007), *Global, Regional, and National CO2 Emissions Trends: A Compendium of Data on Global Change*. Oak Ridge, TN: Carbon Dioxide Information Analysis Center, Oak Ridge National Laboratory, United States Department of Energy
16. Mutunga, C. and K. Hardee (2009), "Population and Reproductive Health in National Adaptation Programmes of Action (NAPAs) for Climate Change" (draft), Washington, D.C.: Population Action International.
17. Nakićenović et al, N 2000. *Special Report on Emissions Scenarios: A Special Report of Working Group III of the Intergovernmental Panel on Climate Change*. Cambridge, UK: Cambridge University Press.
18. Nakićenović, N., B. Fisher, K. Alfsen, J. CorfeeMorlot, F. de la Chesnaye, J.-C. Hourcade, K. Jiang, M. Kainuma, E.L. La Rovere, A. Rana, K. Riahi, R. Richels, D.P. vanVuuren, and R. Warren. 2007. "Issues related to mitigation in the long-term context." *Climate Change 2007: Mitigation of Climate Change. Contribution of Working Group III to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change*, edited by B. Meta, O. Davidson, P. Bosch, R. Dave, and L. Meyer. Cambridge, UK: Cambridge University Press.
19. Robert Engelman and Pamela LeRoy (1993), *Sustaining Water: Population and the Future of Renewable Water Supplies*, Population Action International, Washington, DC.

Semester- III

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Elective (3.II)

(One course to be opted)

Course No: P2ECTE310

Title: Demography and Climate Change

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

**b) Minor Tests- I & II: 20 each
(Duration: 1hr)**

Duration of Major Examination: 2:30 hrs

Demography and Climate Change

Syllabus for the Examination to be held in Dec 2026, 2027 & 2028

20. Rosa, Eugene A., Richard York, and Thomas Dietz. 2004. "Tracking the anthropogenic drivers of ecological impacts." *Ambio: A Journal of the Human Environment* 32:509-512.
21. Shi, A. 2003. "The impact of population pressure on global carbon dioxide emissions, 1975-1996: Evidence from pooled cross-country data." *Ecological Economics* 44:24-42.
22. Tom Gardner-Outlaw and Robert Engelman (1997), *Sustaining Water, Easing Scarcity: A Second Update*, Population Action International, Washington, D.C.
23. UN, *World Population Prospects* (various issues), Population Division, Department of Economic and Social Affairs, New York: United Nations Development Program.
24. UNDP. 1999. "Human Development Report." New York: United Nations Development Program.
25. UNEP. 2007. *Global Outlook for Ice & Snow*. Birkeland, Norway.
26. UNFPA (2007), *The State of World Population 2007: Unleashing the Potential of Urban Growth*, New York, N.Y.: UNFPA.
27. UNFPA. 2008. ICPD Programme of Action. <http://www.unfpa.org/icpd/docs/index.htm>.
28. United Nations (2009), *World Population Prospects: The 2008 Revision*. Population Division, Department of Economic and Social Affairs, United Nations. New York, N.Y.: United Nations.
29. United Nations, (2009), Data Online, *World Urbanization Prospects: The 2007 Revision*. Population Division, Department of Economic and Social Affairs, United Nations. New York, N.Y.: United Nations. Website: <http://esa.un.org/unup/index.asp>, last accessed 19 August 2009.
30. United Nations Environment Programme (2009), *UNEP Yearbook 2009*, Nairobi: United Nations Environment Programme.
31. United Nations Department of Economic and Social Affairs (1999), *The World at Six Billion* (Document ESA/P/WP.154), New York: United Nations. Website: <http://www.un.org/esa/population/>
32. United Nations Framework Convention on Climate Change (2009), http://unfccc.int/essential_background/convention/background/items/1349.php.
33. UNDP. 2007. *World Population Prospects: The 2006 Revision, Highlights*. New York: United Nations, Department of Economic and Social Affairs.
34. World Bank (2008), *Development and Climate Change: A Strategic Framework for the World Bank Group*, Washington, D.C.: World Bank.

Semester- III
Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Elective (3.II)
(One course to be opted)

Course No: P2ECTE310

Title: Demography and Climate Change

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

**b) Minor Tests- I & II: 20 each
(Duration: 1hr)**

Duration of Major Examination: 2:30 hrs

Demography and Climate Change
Syllabus for the Examination to be held in Dec 2026, 2027 & 2028

35. World Health Organization (2009), *Reproductive Health*, Geneva, website: http://www.who.int/topics/reproductive_health/en/
36. World Resources Institute (1996), *World Resources 1996-1997: A Guide to the Global Environment*, Oxford University Press, New York.
37. York, Richard, Eugene A. Rosa, and Thomas Dietz. 2003. "Footprints on the earth: the environmental consequences of modernity." *American Sociological Review* 68:279-300.

Semester- III

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Elective (3.II)
(One course to be opted)

Course No: P2ECTE311

Title: Econometrics II

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

b) Minor Tests- I & II: 20 each (Duration: 1hr)

Duration of Major Examination: 2:30 hrs

Econometrics II

Syllabus for the Examination to be held in Dec 2026, 2027 & 2028

- **Course outcome:** To learn various statistical methods applicable to different topics in economics and those needed for applied economic research.
- To enable students to learn multivariate methods and do multivariable data analysis in development-related studies.

UNIT-I: Dynamic Econometric Model

Autoregressive and distributed lag models Koyck's approach, partial adjustment and adaptive expectations model, instrumental variables

Problem of auto-correlation - Application; Almon approach to distributed-lag models, Error correlation mechanism, causality test, Granger test and Sim's test, exogeneity.

UNIT-II: Simultaneous Equation Models: Single Equation Methods

Introduction - Structural form, reduced form, recursive form and final form model. The simultaneous equation bias and inconsistency of OLS estimators, The identification problem order and rank conditions of identification. Estimation of simultaneous equation model - single equation model: Indirect least squares (ILS). Instrumental variable (IV); 2SLS and their properties K-class estimator, limited information maximum likelihood (LIML) and least variance ratio (LVR)

UNIT-III: Time Series Analysis

Stationary-unit roots and co-integration. Dickey-Fuller test, Augmented DF test, Engle-Granger test, Random walk model, Trend, volatility, integration, co-integration and error correction, Forecasting with ARIMA modeling, Box-Jenkin's methodology, Vector autoregression, Problems with VAR modelling - Applications: ARCH, GARCH

Semester- III
Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Elective (3.II)
(One course to be opted)

Course No: P2ECTE311

Title: Econometrics II

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

b) Minor Tests- I & II: 20 each (Duration: 1hr)

Duration of Major Examination: 2:30 hrs

Econometrics II

Syllabus for the **Examination to be held in Dec 2026, 2027 & 2028**

UNIT - IV: Panel Data

Panel data techniques, pooling data, the chow test, differencing, with more than two time periods, fixed effect or first differencing, random effects Advanced panel methods- unbalanced panel, when slopes vary with time and individual, random or fixed effects, Housman test

Note for Paper Setting: Minor Test -I and Minor Test - II each of 20 marks from Unit

Test I and Test II

The Subjective Test of Test I and Test II consist of three short answer type questions (05 marks each). Students are required to answer two questions. (5*2=10 & 10 MCQs=20)

The Subjective Test of Test II consist of three short answer type questions (05 marks each). Students are required to answer two questions. (5*2=10 & 10 MCQs=20)

No preparatory holidays shall be provided for the Test I and Test II. Those candidates who have appeared in Test I and Test II and failed to get the minimum required marks i.e. **14 out of 40 will be eligible to re-appear in the Test I and Test II only once.**

Major Test

The Major test will comprise two sections, Section-A and Section-B. Section-A will have one compulsory question comprising of **10 parts (minimum 02 from each unit) of 03 marks each**. Section B will have **04 questions of 15 marks each to be set from the last two units (02 from each unit)**. In Section B students are required to attempt 01 question from each unit. **In major test there should not be a gap of more than two days in between two tests.**

Semester- III

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

**Elective (3.II)
(One course to be opted)**

Course No: P2ECTE311

Title: Econometrics II

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

b) Minor Tests- I & II: 20 each (Duration: 1hr)

Duration of Major Examination: 2:30 hrs

Econometrics II

Syllabus for the Examination to be held in Dec 2026, 2027 & 2028

Basic Reading List

1. Bridge, J.L. (1971). Applied Econometrics, North Holland Publishing Company.
2. Chow, G.C. (1983). Econometrics, McGraw Hill, New York.
3. Intrilligator, M.D. (1978). Econometric Models, Techniques and Applications, Prentice Hall, Englewood Cliffs, New Jersey.
4. Johnston, J. (1991). Econometric Methods, McGraw Hill 'Book Co., London.
5. Johnston, J. and J. Di Nardo (1997). Econometric Methods, The McGraw-Hill Companies Inc.
6. Judges Griffiths Hill, Liitkepohl and Lee (1994). The Theory and Practice of Econometrics, 4thedn., John Wiley & Sons, 1994
7. Kmenta, J. (1997). Elements of Econometrics, University of Michigan Press, New York.
8. Koutsoyannis, A. (1977). Theory of Econometrics (2ndEdn.). The Macmillan Press Ltd., London.
9. Theil, H. (1971) Principles of Econometrics, John Wiley & Sons Inc.
10. Gujarati, D.N. (1995), Basic Econometrics (2ndedn.). McGraw Hill, New Delhi.
11. Koutsoyiannis, A. (1.977). Theory of Econometrics (2ndedn.). The Macmillan Press Ltd., London.

Semester- III

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Elective (3.II)

(One course to be opted)

Course No: P2ECTE312

Title: Health Economics & Policy

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

b) Minor Tests- I & II: 20 each (Duration: 1hr)

Duration of Major Examination: 2:30 hrs

Health Economics & Policy

Syllabus for the Examination to be held in Dec 2026, 2027 & 2028

Course outcomes:

- CO1: Understand and explain the core concepts, scope, and significance of health economics and its linkages with development and welfare.
- CO2: Analyze the demand and supply of healthcare, assess market failures, and evaluate efficiency and equity in health service delivery.
- CO3: Apply economic evaluation techniques such as Cost-Benefit Analysis, Cost-Effectiveness Analysis, and Cost-Utility Analysis using QALYs and DALYs.
- CO4: Examine various health financing mechanisms and assess the economic rationale behind public and private health insurance, including the role of government intervention.
- CO5: Critically evaluate India's healthcare delivery system, identify socio-economic determinants of health, and analyze national health policies and their effectiveness.

Unit I Introduction to Health Economics

Meaning and Scope of Health Economics; Interdependency between Health and Development: Health, Wealth and Welfare: Dimensions and determinants of Health; Inequalities in health outcomes; Determinants of health disparities; Case studies on global health disparities and national health disparities (e.g., maternal health, COVID-19 impacts)

Unit II Economics of Health Care

Health and Health Care: Demand and Supply of Health Care; Equity and Efficiency; Production and cost; Economic Evaluation in Health care: Cost-Benefit Analysis, Cost Effectiveness Analysis, Cost Utility Analysis. Methods of calculating QALYs and DALYs

Unit III Health Finance and role of Government

The Changing World of Health Care Finance, Private Health Insurance, Social Health Insurance, Theory of Risk and Insurance, Health Insurance and Market Failure, Case of Moral Hazard, Government Involvement in Health Care market, Public good, Externalities, Financing health services – The role of government financing institutions in financing health.

Semester- III

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Elective (3.II)

(One course to be opted)

Course No: P2ECTE312

Title: Health Economics & Policy

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

b) Minor Tests- I & II: 20 each (Duration: 1hr)

Duration of Major Examination: 2:30 hrs

Health Economics & Policy

Syllabus for the Examination to be held in Dec 2026, 2027 & 2028

Unit IV Health Sector in India: Issues and concern

Health Care Services and Healthcare Delivery System in India: Primary, Secondary, and Tertiary level, Health Status of People in India, Socio-economic determinants of health status, Measuring health inequality- Social exclusion and care of elderly; Health Inequalities in rural and urban areas in India, A review of the Indian National Health Policy and feasible alternatives.

Reading List

- Anthony J. Cuyler and Joseph P.(ed) (2000), Handbook of Health Economics, Newhouse, North-Holland, Elsevier Science.
- Alistair Mc Guire, John Henderson and Gravin Mooney, The economics of health care, Routledge Publishers.
- Allen C. Goodman and Miron Stano, The Economics of Health and Health Care
- Charles E. Phelps, Health Economics, Routledge Publishers.
- Clewar, Ann, and David Perkins. 1998. Economics for Health Care Management. London: Prentice Hall.
- Dreze and Sen, India : Economic Development and Social Opportunity.
- Folland, Sherman, Allen Goodman, and Miron Stano. 2001. The Economics of Health and Health Care. New York: Macmillan, Third Edition
- Goodman A.C., Miron Stano, The Economics of Health and Health Care
- Henderson, James.W., Health Economics and Policy
- Karman H.E. , Economics of Health .
- M. Perlman, Economics of Health and Medical Care
- M. Grossman, The Demand for Health, A theoretical and empirical investigation
- Rice, Thomas. 1998. The Economics of Health Reconsidered. Chicago: Health Administration Press.
- Santerre and Neun, (2004) Health Economics: Theories, Insights, and Industry Studies
- Schultz T.W. , Investment in Human Capital
- Sherman Folland, Allen C. Goodman, and Miron Stano, (2004.), The Economics of Health and Health Care, 4th Edition, Prentice Hall.
- William Jack, Principles of Health Economics for Developing Countries, WBI Development Studies.
- Van Der Gaag and M. Perlman, Health, Economics and Health Economics.

Semester- III

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

**Elective (3.II)
(One course to be opted)**

Course No: P2ECTE312

Title: Health Economics & Policy

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

b) Minor Tests- I & II: 20 each (Duration: 1hr)

Duration of Major Examination: 2:30 hrs

Health Economics & Policy

Syllabus for the Examination to be held in Dec 2026, 2027 & 2028

- Galenson W and W Pyatt, Quality of Labour and Economic Development in Certain Countries, International Labour Organisation, Geneva, 1964.
- Pearce D and P Dasgupta, Social Benefit Cost Analysis, Macmillan, London, 1982.
- Weisbroad B. A., Economics of Public Health, University of Pennsylvania Press, Pennsylvania, 1961.
- Weisman J. Cost Benefit Analysis and Health Service Policy, Scottish Journal of Political Economy, Vol. 20, No. 1, February 1962.
- Krishnakumar T and Rao K.N., Financing of Health Services in India: Perspectives and Issues, Department of Economics, University of Hyderabad (Mimeographed), September 1987.
- Jimenz E., Pricing Policy in the Social Sectors, the Johns Hopkins University Press, New York, 1987.
- Klarman H.E. the Economics of Health, Columbia University Press, Columbia, 1965.
- Panchamukhi P.E. Economics of Health: A Trend Report, in ICSSR, A Survey of Research in Economics, Vol. VI, Infrastructure, Allied Publishers, Delhi.

Note for Paper Setting: Minor Test -I and Minor Test - II each of 20 marks from Unit

Test I and Test II

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Semester- III

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

**Elective (3.II)
(One course to be opted)**

Course No: P2ECTE313

Title: Economics of Capital Markets

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

b) Minor Tests- I & II: 20 each (Duration: 1hr)

Duration of Major Examination: 2:30 hrs

Economics of Capital Markets

Syllabus for the **Examination to be held in Dec 2026, 2027 & 2028**

Course Outcomes:

To gain insights into capital markets through formal education.

To understand capital market structure and importance of capital market in resources and to create the awareness among the students about various instruments of capital market.

UNIT-I: Stock Exchanges Management Principles and Practices

Introduction to Management Theory and Practices, Systems Approach to Management, Functions of Management, Management of Stock Exchanges in India Evolution, Regulation and Supervision - Role of SEBI - Membership, Listing, Types of Exchanges National, Regional, Local, Social Responsibility of Exchanges, Corporate Governance and Stock Exchange, Management of Mutual Funds, Study of functions of BSE and NSE, Role of RBI as controller of Money Market

UNIT-II: Market of New Issues

Market of new issues Need for floating capital Public Offer Private Placement Rights Issue - Equity and Debt Recent trends in public issues, Mutual Funds - Concept and Classification Growth and Importance SEBI guidelines - Performance of listed schemes Performance of Open-ended schemes, Merchant Banking -Concept - New Issue Management and allied functions Merchant Banking in India Regulation of merchant Banking in India Pre issue Management - Post Issue Management - Mergers, Amalgamations and Takeovers, Venture Capital - Nature and Scope - Venture Capital in India Venture Capital Firms Study of Venture Capital funds of IDBI and SIDBI, NRIs and FIIs-Concept Investment Portfolio Role of Foreign Investment - Foreign Direct Investment- Collaboration-Guidelines of Government of India for FIIs, Analysis of Financial statement - Need for following International Standards of Accounting.

Semester- III

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

**Elective (3.II)
(One course to be opted)**

Course No: P2ECTE313

Title: Economics of Capital Markets

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

b) Minor Tests- I & II: 20 each (Duration: 1hr)

Duration of Major Examination: 2:30 hrs

Economics of Capital Markets

Syllabus for the Examination to be held in Dec 2026, 2027 & 2028

UNIT-III: Investment Analysis

Investment Analysis Need for savings and investment Role of savings practices -financial intermediaries linkage between financial and real savings Importance of household savings Shifts in Savings and investment, Financial Systems in India Money Market Debt Market Capital Market Need for correlating them Bullion Market and Foreign Exchange Market, Security Market Analysis Need for study and research of market data Factors influencing behaviour of market Valuation of Shares and securities Methods of valuation, Investment Avenues Objectives of investors Characteristics of investments Risk Return relationship Classes of instruments Investment portfolio for average household, Security Pricing Influencing factors Valuation Constant Growth Model-Book value Liquidity Value Intrinsic Value Market Price Bond Valuation Single Period valuation Model Multi Period Valuation Model-Dividend capitalization Valuation of Security in India, Technical Analysis of market meaning and Importance Timing of investment Basic Terms Dow theory - Major trends - Breadth of the markets - Volume of Trading - Principles of Technical Analysis - Oscillatory, Fundamental Analysis.

UNIT-IV: Secondary Markets

Trading in Security - Securities Contract Regulation Act, 1956 Companies Act, 1956, FEMA, Instruments of Trading Need for planning and development for financial instruments Government and Corporate Securities, Trading Methods - Trading Ring, On-line Trading, Carry Forward Systems Risk management Investor Protection, Government Securities Market Government Debt Instruments Short Term and Long Term Instruments - Trading in Debt Instruments - Gilt Edged Market, Securities Market Indicators-Sensex - Study of fixation of indices. Interest rates Role of Interest rates in determining value of security - Interest rates and its influence on money market and capital market, Indian Depository System Need-Paperless Trading Benefits Need for educating investors 8. Derivatives trading in stock markets, NIFTY Futures and Options

Semester- III

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Elective (3.II) (One course to be opted)

Course No: P2ECTE313

Title: Economics of Capital Markets

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

b) Minor Tests- I & II: 20 each (Duration: 1hr)

Duration of Major Examination: 2:30 hrs

Economics of Capital Markets

Syllabus for the **Examination to be held in Dec 2026, 2027 & 2028**

Test I and Test II

The Subjective Test of Test I and Test II consist of three short answer type questions (05 marks each). Students are required to answer two questions. (5*2=10 & 10 MCQs=20)

The Subjective Test of Test II consist of three short answer type questions (05 marks each). Students are required to answer two questions. (5*2=10 & 10 MCQs=20)

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Major Test: The Major test will comprise two sections, Section-A and Section-B. Section-A will have one compulsory question comprising of **10 parts (minimum 02 from each unit) of 03 marks each**. Section B will have **04 questions of 15 marks each to be set from the last two units (02 from each unit)**. In Section B students are required to attempt 01 question from each unit. **In major test there should not be a gap of more than two days in between two tests.**

Basic Reading List

1. Avadhani V., A capital market, Himalaya publishing house, New Delhi
2. Bhole, L. M., Financial institutions and markets, Tata Mc Graw-Hill, New Delhi
3. Pathak, B.V., the Indian Financial System: Markets, Institutions and Services, Pearson Education India, 2011
4. Management Practices V. Murthy
5. Management for Results - Peter Drucker
6. Stock Exchanges and Investment - V. Raghunathan'
7. Financial Management - R. P. Rastogi
8. OTC Exchange of India - Nipum S. Mehta. Performance Appraisal for Mutual Funds-M. S. Turan, B. S. Bodlay

Semester- III

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Elective (3.II)

(One course to be opted)

Course No: P2ECTE313

Title: Economics of Capital Markets

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

b) Minor Tests- I & II: 20 each (Duration: 1hr)

Duration of Major Examination: 2:30 hrs

Economics of Capital Markets

Syllabus for the Examination to be held in Dec 2026, 2027 & 2028

9. New Issues Capital Market in India-M. A. Mulay
10. Study in Indian Financial System - V. A.Avdhani
11. The New Issues Market - O. K.Sur
12. Foreign Exchange Manual D. T. Khilnani
13. Futures and Options - R. Mahajan
14. Derivatives-T. V. Somnathan
15. Trading on-line - Alephs Patel
16. India Security Market - O. P.Gupta

Semester- IV

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Course No: P2ECTC 401

Title: Indian Economic Policy

Maximum Mark: 100

Minor Tests- I & II: 20 each (Duration: 1hr)

Major-60

Duration: 3 Hrs

Credits: 4

Syllabus for the Examination to be held in May 2027, 2028 and 2029

Course Outcome:

- To acquaint the students fully with different economic aspects of the Indian Economy.
- To understand various policy issues and measures to understand economic initiatives for improving economic development and growth, agriculture and industry, and planning of different sectors of economy.
- To prepare the students to critically evaluate and analyze the economic policies of India, in the past and present, and to understand the place of the Indian Economy at the International level particularly after economic reforms in India.
- To understand the recent initiatives for economic growth and development taken by the government have also been incorporated.
- To sharpen the analytical faculty of the students to understand the whole system of Economic Policy in India.

Unit -I Economic Development and Growth Policies:

Economic Development & Social Opportunity- development, freedom & opportunity education, health, state & the market ; Principles of integral Humanism; Human Development , Indexing Human Development in India-indicators , scaling & composition, recasting planning in terms of Human Development; the concept of inclusive growth factors , Policies and measures for promoting inclusive growth in India-how inclusive growth can be catalyst for Economic Development; Developed India: Model of SDG localization, SDG Agenda 2030; Vision & Progress Towards 2047

Unit-II Agriculture & Industrial Sectors of the Indian Economy:

New Agricultural Policy 2022- Objectives, Salient Features & role to strengthen Indian Economy; Recent Changes to support the Agriculture Sector in Budget 2023, National Agriculture Market (NAM), Critical appraisal of Food security Policy- Pradhan Mantri Garib Kalyan Anna Yojana (PMGKAY); Pradhan Mantri Fasal Bhima Yojana (PMFBY); Deendayal

Semester- IV

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Course No: P2ECTC 401

Title: Indian Economic Policy

Maximum Mark: 100

Minor Tests- I & II: 20 each (Duration: 1hr)

Major-60

Duration: 3 Hrs

Credits: 4

Syllabus for the Examination to be held in May 2027, 2028 and 2029

Upadhyaya Grameen Kaushalya Yojana, Make in India and Atamanirbar Bharat, 5 Pillar of Atmanirbar Bharat advantages and Disadvantages, Major Companies benefitting from the Make in India initiative, India's Digital Revolution- 21 Century IT infrastructure & Software Capabilities-skill building for the Future & Digitally Enables Jobs; Impact of Covid-19-on Indian Economy.

Unit-III Recent Trends in Indian Planning:

NITI Ayog-Objectives & Features, 7 Pillars of NITI Ayog, Strategy for Now India(@75- Drivers: Growth, employment & labour reforms, technology & innovation, industry, doubling farmer's income modernizing agriculture, policy & governance, value chain & Rural infrastructure, Financial Inclusion: housing for all; Infrastructure-energy, Road transport, Railways, Ports & waterways, Digital Connectivity, Smart City for urban transformation, Swachh Bharat Mission and Sustainable environment, New Education Policy -2020, Skill Mission India: National Policy for Skill Development & Entrepreneurship, Start-up India Programme: Public Health Management & Action-Ayushman Bharat Yojana, Gender Responsive Budgeting, Gender Equity & Closing the Women's Health Gap a \$ Trillion Opportunity, Governance- Balanced Regional Development, the North-East Region, Deendayal Upadhyaya Grameen Kaushalya Yojana

Unit-IV ECONOMIC REFORMS & EXTERNAL SECTOR:

Economic reforms-path to economic transformation in India-Economic Crisis & Initiatives taken by the government; Reforms for Macroeconomic Stabilization-Fiscal Reforms; Monetary & Financial Reforms Currency Exchange Reforms; Reforms for Microeconomic Structural Adjustment Liberalization of Business, Privatization of Public Sector and Disinvestment, Public Private Partnership (PPP) & Globalization of the Indian Economy, Critique of Economic Reforms-GDP Growth, Employment & Poverty, Impact of Economic Reforms on Labour, India's Foreign Trade & BOPs, Economic Reforms & Investment flows, Economic Reforms and Regional Disparities, Economic Reforms & Human Development, External Sector of India- Components, Reforms & Significance.

Semester- IV

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Course No: P2ECTC 401

Title: Indian Economic Policy

Maximum Mark: 100

Minor Tests- I & II: 20 each (Duration: 1hr)

Major-60

Duration: 3 Hrs

Credits: 4

Syllabus for the Examination to be held in May 2027, 2028 and 2029

Test I and Test II

The Subjective Test of Test I and Test II consist of three short answer type questions (05 marks each). Students are required to answer two questions. (5*2=10 & 10 MCQs=20)

The Subjective Test of Test II consist of three short answer type questions (05 marks each). Students are required to answer two questions. (5*2=10 & 10 MCQs=20)

No preparatory holidays shall be provided for the Test I and Test II. Those candidates who have appeared in Test I and Test II and failed to get the minimum required marks i.e. **14 out of 40 will be eligible to re-appear in the Test I and Test II only once.**

Major Test: The Major test will comprise two sections, Section-A and Section-B. Section-A will have one compulsory question comprising of **10 parts (minimum 02 from each unit) of 03 marks each**. Section B will have **04 questions of 15 marks each to be set from the last two units (02 from each unit)**. In Section B students are required to attempt 01 question from each unit. **In major test there should not be a gap of more than two days in between two tests.**

Basic Readings:

1. Puri. V.K & S.K. Misra (2023), Indian Economy. Himalaya Publishing House, Mumbai.
2. T.W. Schultz (1961), investment in human capital", The American Economic Review, Vol.31:No.1
3. Dreze. Jean & Amartya Sen (1997), Indian: Economic Development and Social Opportunity. Delhi: Oxford India
4. UNDP. Human Development Reports- Different Issues. New Delhi: Oxford University Press.
5. Government of India. Planning Commission. Different Five-Year Plans. Planning Commission.
6. Government of India, Economic Survey. Different Issues
7. Sen. Amartya (1977), "Poverty and Economic Development", in CD Wadva. ed. Some Problems of India's Economic Policy.
8. World Bank (2003). India: Sustaining Reforms, Reducing Poverty. New Delhi: Oxford University Press.
9. Rakesh Mohan (2017). India Transformed: 25 Years of Economic Reforms.
10. Government of India, Ministry of MSME. different Reports.
11. Dreze, Jean & Amartya Sen (1998), Omnibus. Oxford University Press, New Delhi.
12. Government of India. NITI AAYOG- Annual Report-2022-23 and other iss

Semester- IV

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Course No: P2ECTC 402

Title: Public Economics

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

**b) Minor Tests- I & II: 20 each
(Duration: 1hr)**

Duration of Major Examination: 2:30 hrs

Public Economics

Syllabus for the **Examination to be held in May 2027, 2028 and 2029**

COURSE OUTCOME:

- To learn about the role and functions of the government in an economy.
- To understand the policies and operations which involve the use of tax and expenditure measures.
- To train the student about the budgetary policy and basic problems of use of resources, distribution of income etc.
- To acquaint the student to vast array of physical institution - tax systems, expenditure programs, budgetary procedures, stabilization instruments, debt issues, level of governments etc, which raise a spectrum of issues arising from the operation of this institutions.
- To gain insights into the existence of externalities, concern for adjustment in the distribution of income and wealth etc require political processes for their solution in a manner which combines individual freedom and justice.
- To thoroughly understand fiscal institution with a careful analysis of the issues which underlined Budgetary policies in general and Indian experience in particular.

UNIT - I: Rationale for Public Policy

Social Contract theory of Hobbs and Locke's contribution, Market failures: Imperfections, decreasing costs and externalities; Role of government as an agent of operationalizing planning and development: Private and Public mechanism for allocation of resources, problem of allocation of resources, Voluntary exchange models of Samuelson, Musgrave and Bergson; A. Wagner theory of public expenditure, Objective of public expenditure, Tiebout hypothesis, Political economy of public economics - voting and rent seeking.

UNIT - II: Public Debt and Taxation

Classical view of public debt; compensatory aspects of debt policies, burden of public debt; principles of public debt management, theory of incidence of taxation; theory of optimal taxation, allocation, efficiency and equity trade off, problems of double taxation.

Semester- IV

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Course No: P2ECTC 402

Credits: 4

Title: Public Economics

Maximum Marks: 100

a) Major Examination: 60

**b) Minor Tests- I & II: 20 each
(Duration: 1hr)**

Duration of Major Examination: 2:30 hrs

Public Economics

Syllabus for the **Examination to be held in May 2027, 2028 and 2029**

Principal of multi unit finance: Fiscal federalism in India; Vertical and Horizontal imbalances, assignment of function and sources of revenue; constitutional positions: Finance commission, Planning commission criteria of transfer of resources; resources transfer from union of states and local bodies, Centre-state financial relationship.

UNIT - IV: Indian Public Finance

Indian tax system: major taxes in India income tax, Excise custom, corporation tax, service tax, VAT and agriculture expenditure tax; base of taxes, direct or indirect taxes, reforms in direct and indirect taxes, non tax revenue of Centre and states, Fiscal crises and fiscal sector reforms in India, Recommendations of 14th and 15th finance commission, problems associated with governance and finances of local bodies.

Note for Paper Setting: Minor Test -I and Minor Test - II each of 20 marks from Unit

Test I and Test II

The Subjective Test of Test I and Test II consist of three short answer type questions (05 marks each). Students are required to answer two questions. (5*2=10 & 10 MCQs=20)

The Subjective Test of Test II consist of three short answer type questions (05 marks each). Students are required to answer two questions. (5*2=10 & 10 MCQs=20)

No preparatory holidays shall be provided for the Test I and Test II. Those candidates who have appeared in Test I and Test II and failed to get the minimum required marks i.e. **14 out of 40 will be eligible to re-appear in the Test I and Test II only once.**

Major Test: The Major test will comprise two sections, Section-A and Section-B. Section-A will have one compulsory question comprising of **10 parts (minimum 02 from each unit) of 03 marks each**. Section B will have **04 questions of 15 marks each to be set from the last two units (02 from each unit)**. In Section B students are required to attempt 01 question from each unit. **In major test there should not be a gap of more than two days in between two tests.**

Basic Reading List

1. Musgrave, L.A. (1959), theory of public finance, McGraw Hill-Kogakhusa, Tokyo.
2. Shoup, C.S. (1970), Public Finance, Aldine, Chicago.
3. Buchanan, J.M. (1970), The Public Finance, Richard D, Irwin, Hovewood.

Semester- IV

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Course No: P2ECTC 402

Title: Public Economics

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

**b) Minor Tests- I & II: 20 each
(Duration: 1hr)**

Duration of Major Examination: 2:30 hrs

Public Economics

Syllabus for the Examination to be held in May 2027, 2028 and 2029

4. Jha, R (1998), Modern Public Economic, Rutledge, London.
5. Atkinson, A.B. and J.E. Siglitz (1980) Lecture on public Economic.
6. Musgrave, R.A. and C.S. Shoup (Eds.) 1970, Readings in the Economics of taxation, George Allen and Unwin, London.
7. Barman, K. (1986) Public debt management in India, Uppal Publishing House, New Delhi.
8. Chelliah, Raj J, et.al (1981), Trends and issues in India's Federal finance, national institute of Public Finances and Policy, New Delhi.
9. Bhargave, P.K(1982), Centre state Resource transfer in India, The academic press, Furgao.
10. Bhargave, R.N(1967), The theory and working of Union Finance in India, Chaitanya Publishing House, Allahabad.
11. Borker, V.V. (1971), Income tax reforms in India, Popular Prakashan, Bombay.
12. Datt, R. (Ed.) 2001, Second Generation Economic Reforms in India, Deep and Deep Publications, New Delhi.
13. Bagchi, A. (ed) (2005), Readings in Public Finance, Oxford Press, New Delhi.

Semester- IV

Syllabi of Economics for Two Year P.G Programme as per NEP 2020

Course No: P2ECRC 403

Title: Dissertation

Credits: 4

Dissertation

Evaluation Scheme for Research Component

Total Marks 400

Credits:16

Practical/Research (thesis/project/patent) Examination:

The practical/research examination shall be conducted by a Board of Examiners consisting of the head of the department, one/two Senior Professors of the concerned department, concerned paper and an outside expert to be appointed by the Vice-Chancellor out of the panel to be submitted by the head of the department who shall evaluate/assess the final practical performance of the students.

Practical/Research (Thesis/Project/Dissertation)				
MCQ on LMS + Subject Test	Time Allotted for the Examination	% Weightage (Marks)		
Mid Term Appraisal	4 Hours	25%		
External Examination	4 Hours	75 %	50%	Project Report
			25%	Viva- Voce
100 %				

