



UNIVERSITY OF JAMMU

(NAAC ACCREDITED 'A++' GRADE' UNIVERSITY)
Baba Sahib Ambedkar Road, Jammu-180006 (J&K)

Academic Section

Email: academicsectionju14@gmail.com

NOTIFICATION **(25/July/Adp./24)**

It is hereby notified for the information of all concerned that the Vice-Chancellor, in anticipation of the approval of the Academic Council, is pleased to authorize the adoption of the syllabi and courses of studies for **Post Graduate Programme in Economics** under **NEP-2020** as per details given below:-

Two Year Post Graduate Programme under NEP-2020

Subject	Semester	For the examinations to be held in the year
Economics	Semester-I	December 2025, 2026 and 2027
	Semester-II	May 2026, 2027 and 2028
	Semester-III	December 2026, 2027 and 2028
	Semester-IV	May 2027, 2028 and 2029

One Year Post Graduate Programme under NEP-2020

Subject	Semester	For the examinations to be held in the year
Economics	Semester-I	December 2026, 2027 and 2028
	Semester-II	May 2027, 2028 and 2029

The Syllabi of the courses are also available on the University website:
www.jammuuniversity.ac.in

Anju Bhasin
DEAN ACADEMIC AFFAIRS

No. F. Acd/II/25/5285-9/11

Dated: 04/8/25

Copy for information and necessary action to:

1. Dean, Faculty of Social Science
2. Director/Convener, Board of Studies in **Economics**
3. Director, Centre for IT Enabled services and Management, University of Jammu for information and for uploading on University Website.
4. All members of the Board of Studies
5. Joint Registrar (Evaluation/P.G. Exam.)
6. Programmer, Computer Section, Examination Wing

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SS 30/7
92 29/7/25



Department of Economics
University of Jammu

PROGRAMME: M.A. ECONOMICS

Course Structure under New pattern of NEP for One Year P.G Programme
(Examination to be held in the years 2026, 2027 and 2028 (w.e.f. August 2026))

First Semester

S. No.	Course Code	Title	No. of Credit	Credit Level	Course Type	Core /Elective/ Any Other	Theory /Practical	Marks	Nature of Course	SWAYAM/ MOOC	Vocational Course	Research Project/ Summer Internship/ Dissertation
01	PIECTC101	Advance Microeconomics	4	500	Core	Core	T	100	Global	N		
02	PIECTC102	Advance Macroeconomics	4	500	Core	Core	T	100	Global	N		
03	PIECTC103	Economics of Growth	4	500	Core	Core	T	100	Global	N		
04	PIECTE104	Natural Resource Economics	4	500	Elective- I,I	Elective- I,I	T	100	Global	N		
05	P2ECTE105	Labour Economics	4	500	Elective- I,I	Elective- I,I	T	100	Global	N		
06	PIECTE106	Indian Industry	4	500	Elective- I,I	Elective- I,I	T	100	National	N		
07	PIECTE107	Gender Economics	4	500	Elective- I,I	Elective- I,I	T	100	Global	N		
08	PIECTE108	Indian Agriculture	4	500	Elective- I,I	Elective- I,I	T	100	National	N		
09	PIECTE109	Energy Economics	4	500	Elective- I,I	Elective- I,I	T	100	Global	N		
10	PIECTE110	Demography & Climate Change	4	500	Elective- I,I	Elective- I,I	T	100	Global	N		

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Dr. S. K. Singh

Dr. S. K. Singh

Dr. S. K. Singh

S. No.	Course Code	Title	No. of Credit	Credit Level	Course Type	Core/ Elective/ Any Other	Theory /Practical	Marks	Nature of Course	SWAYAM/ MOOC	Vocational Course	Research Project/ Summer Internship/ Dissertation
11	PIECTE111	Econometrics II	4	500	Elective- I,II	Elective- I,II	T	100	Global	N		
12	P2ECTE112	Health Economics & Policy	4	500	Elective- I,II	Elective- I,II	T	100	Global/ National	N		
13	PIECTE113	Economics of Capital market		500	Elective- I,II	Elective- I,II	T	100	Global	N		
14.	PIECTE114	Data Analysis for Economics	4	500	Tutorial/ Practical	Skill-based	T/P	100	Global	N		
15.	PIECTC115	Application of Technology in Economics	2	--	Practical	Skill-based	Practical Workshop	50	Global	N		












Second Semester

Courses for the examination to be held in the years 2026, 2027, and 2028 (w.e.f. August 2026)

S. No.	Course Code	Title	No. of Credit	Credit Level	Course Type	Core/Elective/Any Other	Theory/ Practical	Marks	Nature of Course	SWAYAM/ MOOC	Vocational Course	Research Project/ Summer Internship/ Dissertation
01	P1ECTC201	Indian Economic Policy	4	500	Core	Core	T	100	National	N		
02	P1ECTC202	Public Economics	4	500	Core	Core	T	100	National	N		
03	P1ECRC203	Dissertation	16	500	Research	Research		400				Research



Department of Economics
University of Jammu
 Programme Structure for one year MA Economics under New pattern of NEP
 For the Session 2025-27 onwards

The Programme Structure and the Credits for One Year M. A Economics is as under:

Credit Component	Number of Courses	Credits earned
Compulsory Course	05	20
Elective Courses	02	08
Swayam Course	01	04
Skill based course	02	04
Practical	01	04
Research	01	16
Total Courses and Credits to be earned from the Programme	12	56

Programme Structure and the Credits for M. A Economics-Semester-I

Code	Title	Credit	Level	Course Type
PIECTC101	Advance Micro Economics	4	500	Core
PIECTC102	Advanced Macro Economics	4	500	Core
PIECTC103	Economics of Growth	4	500	Core
	Elective -I	4	500	
	Elective -II	4	500	
PIECTC114	Data Analysis for Economics	4		Practical
PIECTC115	Application of Technology in Economics	2		Practical/ Workshop
	Total Credits	26		

Elective- Semester -I

Code	Title	Credit	Level	Course Type
Elective-I (Stream I. I)				
PIECTE104	Natural Resource Economics	4	500	Elective
PIECTE105	Labour Economics	4	500	Elective
PIECTE106	Indian Industry	4	500	Elective
PIECTE107	Gender Economics	4	500	Elective
PIECTE108	Indian Agriculture	4	500	Elective
Elective -I (Stream I. II)				
PIECTE109	Energy Economics	4	500	Elective
PIECTE110	Demography & Climate Change	4	500	Elective
PIECTE111	Econometrics -II	4	500	Elective
PIECTE112	Health Economics & Policy	4	500	Elective
PIECTE113	Economics of Capital Markets	4	500	Elective

The Programme Structure and the Credits for M. A Economics Semester -II

Code	Title	Credit	Level	Course Type
PIECTC-201	Indian Economic Policy	4	500	Core
PIECTC-202	Public Economics	4	500	Core
PIECRC-203	Dissertation	16	500	Research
	Total Credits	24		
	Grand Total Credits	50		

Note:

- A student may take Econometrics - II only if he/she has already Econometrics - I, in the previous programme.
- In semesters III the student must choose two Elective Course from each stream. In addition, he/she must choose one course through Swayam portal in Semester I.

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Semester- I

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

Core

Course No: P1ECTC101

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 Examination to be held in^{Doc} 2026, 2027 and 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.

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Semester- I

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

Core

Course No: PLECTC101

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 Examination to be held in ^{Dec} 2026, 2027 and 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, Scitovsky's paradox, Scitovsky's double criterion, theory of second best, Arrow's 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. Petersburg Paradox and Bernoulli's hypothesis, Allais'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- I

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

Core

Course No: P1ECTC101

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 Examination to be held in^{Dec} 2026, 2027 and 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. ($5 \times 2 = 10$ & 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. ($5 \times 2 = 10$ & 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. 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.

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Semester- I

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

Core

Course No: PLECTC102

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 Examination to be held in^{Dec} 2026, 2027 and 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.

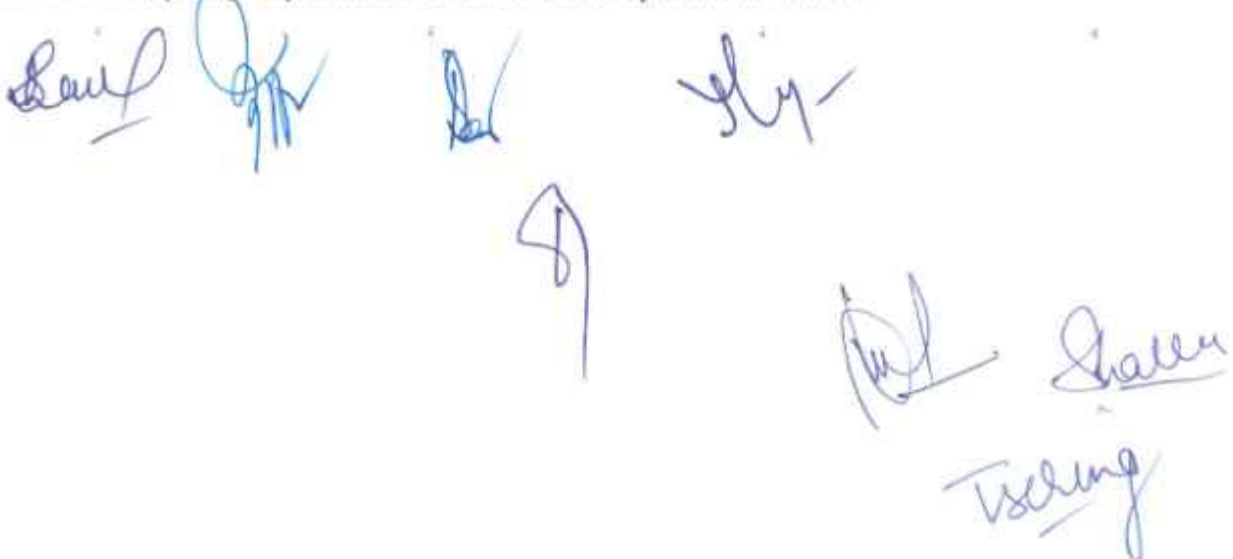
Use well-known macroeconomic models to illuminate current debates about macroeconomic policy.

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.

The bottom section of the page contains several handwritten signatures and initials in blue ink. There are four distinct signatures at the top, followed by a large, stylized 'J' or 'G' in the center. At the bottom right, there are two more signatures, one of which appears to be 'Shaleen' and another 'Vishal'.

Semester- I

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

Core

Course No: PLECTC102

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 Examination to be held in ^{Dec} 2026, 2027 and 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, factor that shift the aggregate supply scheduled. Keynesian versus classical theories of aggregate demand and supply.



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Semester- I

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

Core

Course No: PIECTC102

Title: Advanced Macroeconomics

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

b) Minor Tests - I & II: 20 each (Duration 1:00 hr)

Duration of Major Examination: 2:30 hrs

Syllabus for Examination to be held in ^{Dec} 2026, 2027 and 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. ($5 \times 2 = 10$ & 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. ($5 \times 2 = 10$ & 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.**

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Semester- I

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

Core

Course No: PLECTC102

Title: Advanced Macroeconomics

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

b) Minor Tests - I & II: 20 each (Duration 1:00 hr)

Duration of Major Examination: 2:30 hrs

Syllabus for Examination to be held in^{Dec} 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. Abel, Andrew B., & Ben S. Bernanke (2006), Macroeconomics, Pearson Education Inc., New York.
- Ackley, G. (1978), Macroeconomics: Theory and Policy, acmillan, New York.
2. Black house, R. and A. Salanski (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, Person 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

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

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Semester- I

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

Core

Course No: PLECTC103

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 Examination to be held in^{Dec} 2026, 2027 and 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. 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- I

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

Elective (I.I)

Course No: PIECTE104

Credits: 4

Title: Natural Resource Economics

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 Examination to be held in ^{Dec} 2026, 2027 and 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- I

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

Elective (I.I)

Course No: PIECTE104

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 Examination to be held in^{Dec} 2026, 2027 and 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 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.**

Basic Reading List

1. Bhattacharaya, Ravindra, 2002, Environmental Economics, Oxford University Press, New Delhi.
2. Bounal, 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.

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Semester- I

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

Elective (I.I)

Course No: PIECTE104

Title: Natural Resource Economics

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

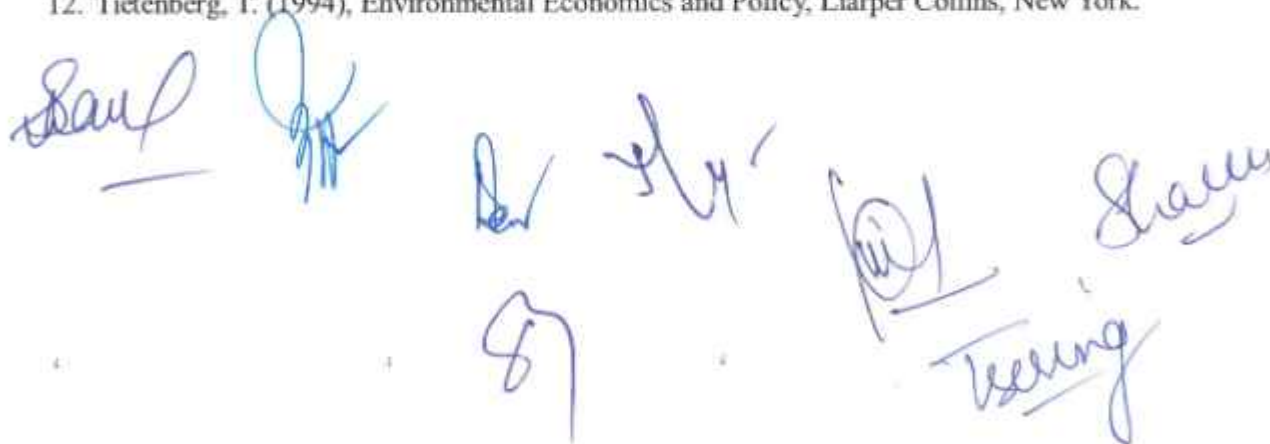
b) Minor Tests - I & II: 20 each (Duration: 1hr)

Duration of Major Examination: 2:30 hrs

Natural Resource Economics

Syllabus for Examination to be held in^{Dec} 2026, 2027 and 2028

4. Fisher, A.C. (1981), Resource and Environmental Economics, Cambridge University Press, Cambridge.
5. Hanley, N., J.F. Shogren 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.
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- I

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

Elective (I.I)

Course No: P1ECTE105

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, 27 and 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

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Semester- I

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

Elective (I.I)

Course No: P1ECTE105

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, 27 and 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.

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Semester- I

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

Elective (I.I)

Course No: P1ECTE105

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, 27 and 2028

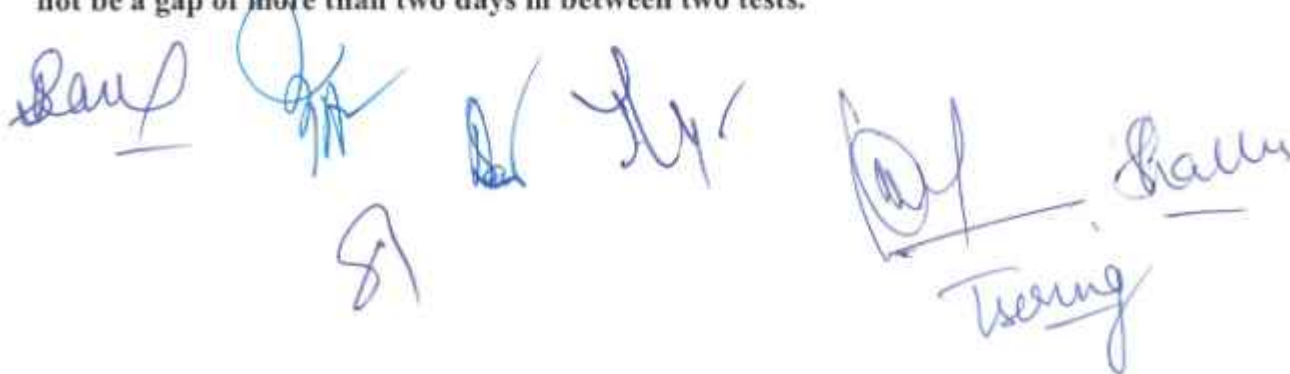
Note for Paper Setting:: Minor Test -I and Minor Test - II each of 20 marks from Unit

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.**



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Semester- I

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

Elective (I.I)

Course No: PIECTE105

Title: Labour Economics

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

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

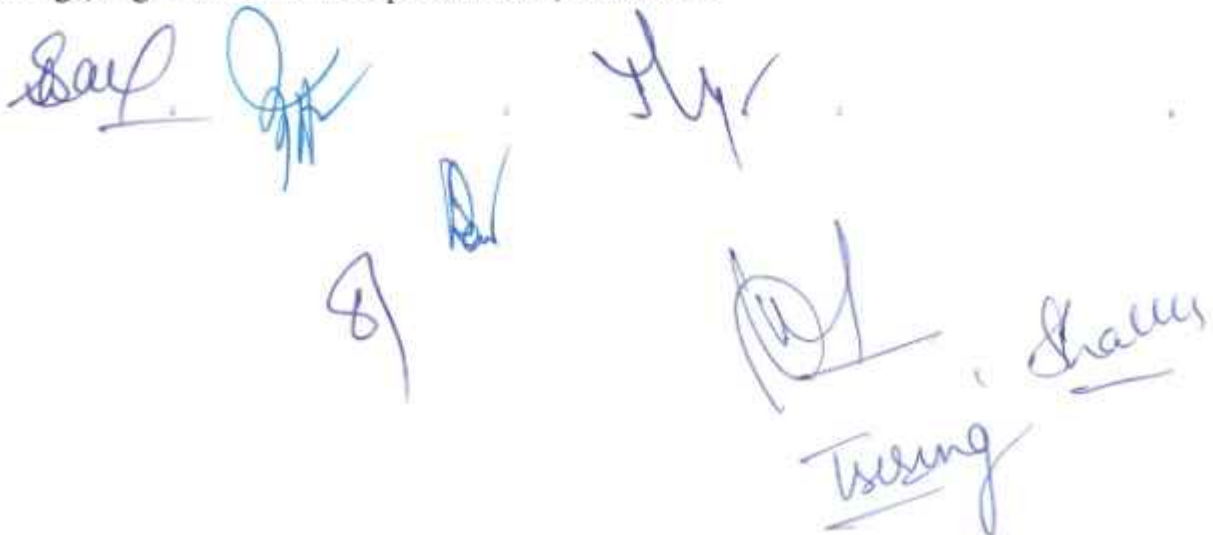
Duration of Major Examination: 2:30 hrs

Title: Labour Economics

Syllabus for the Examination to be held in^{Dec} 2026, 27 and 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.



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Semester- I

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

Elective (I.I)

Course No: P1ECTE106

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 2026, 27 and 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- I

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

Elective (I.I)

Course No: P1ECTE106

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, 27 and 2028

Unit-4:Current Problemsof selected industries:Iron and steel Industry in India ,Automobile industry, Pharmaceutical industry in India, Small Scale industrial policy prior to 1991and after 1991. Comprehensive Policy package2000 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.**



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Semester- I

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

Elective (I.1)

Course No: PIECTE106

Title: Indian Industry

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

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

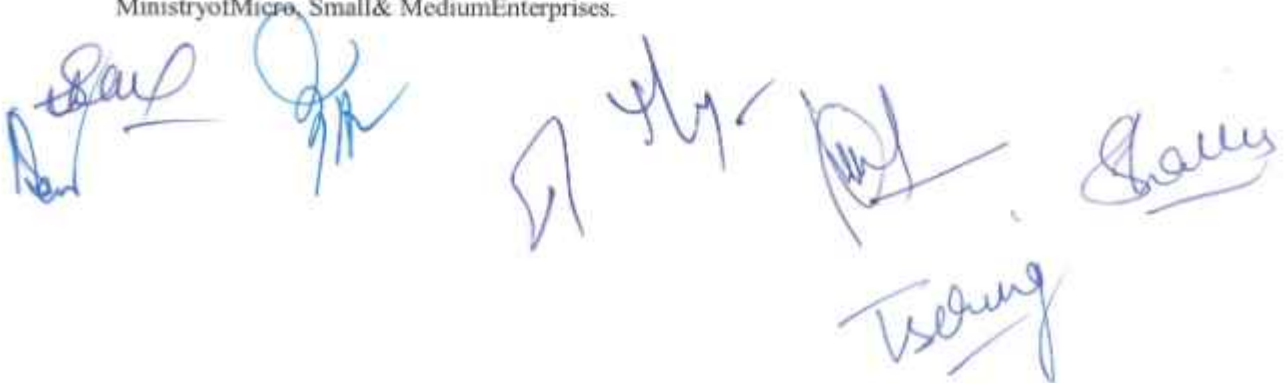
Duration of Major Examination: 2:30 hrs

Indian Industry

Syllabus for the Examination to be held in ^{Dec}2026, 27 and 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. Rameshwari 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- I

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

Elective (I.I)

Course No: PIECTE107

Credits: 4

Title: Gender Economics

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 ²⁰²⁶2026, 27 and 2028

Gender Economics

- **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.

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Semester- I

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

Elective (I.I)

Course No: PIECTE107

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, 27 and 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 flexilelabour; globalisation , labour standards and women's rights-dilemmas of collective inaction in an interdependent world.

Test I and Test II

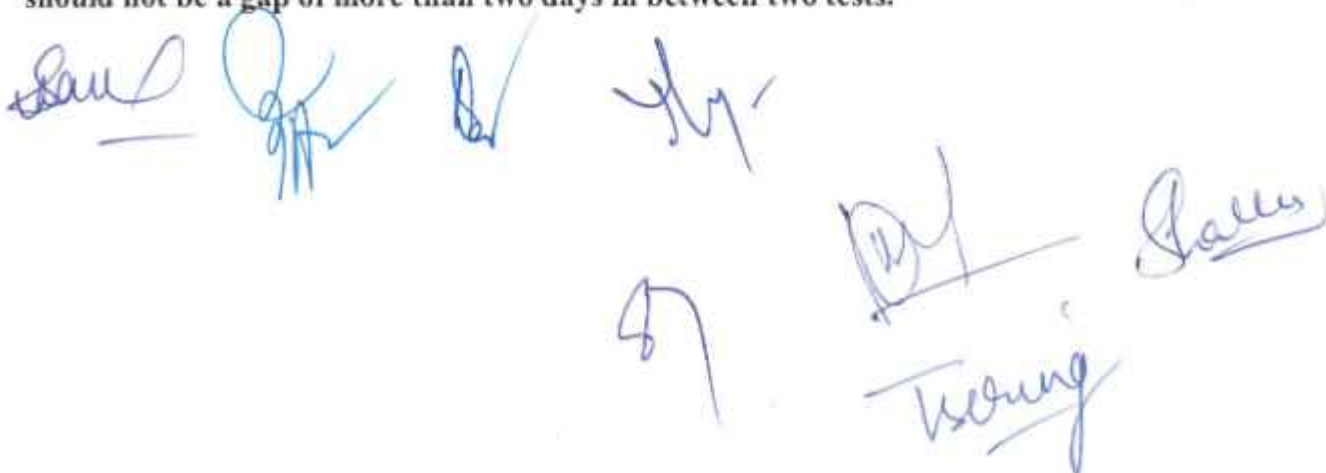
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The Subjective Test of Test II consist of three short answer type questions (05 marks each). Students are required to answer two questions. ($5 \times 2 = 10$ & 10 MCQs=20)

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Major Test

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Semester- I

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

Elective (LI)

Course No: PTECTE107

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

Syllabus for the Examination to be held in-2026, 27 and 2028
Dec Gender Economics

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. Amarja Nerulkar 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 Guinea." 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, Günseli. 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).

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Semester- I

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

Elective (I.I)

Course No: P1ECTE107

Title: Gender Economics

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

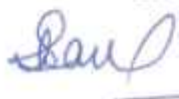
b) Minor Tests - I & II: 20 each (Duration: 1hr)

Duration of Major Examination: 2:30 hrs

Gender Economics

Syllabus for the Examination to be held in ^{DSC}2026, 27 and 2028

17. Custers, P. (1997). Capital Accumulation and Women's Labour in Asian Economics, Vistaar, New Delhi.
18. Dantwala, M.L., H. Sethi and P. Visaria (1998). Social Change Through Voluntary Action,
19. Dauglas Almond, Lena Edlund, Kevin Milligan. 2013. "Son Preference and the Persistence of Culture: Evidence from South and East Asian Immigrants to Canada" Populations and Development Review, Volume 39, issue 1, pages 75-95.
20. Desai, N. and M.K. Raj (eds.). (1979). Women and Society in India, Research Centre for Women Studies, SNDT University, Bombay.
21. Devki Jain: "Valuing Women's Work: Time as a Measure", Economic and Political Weekly, vol. XXXI, no 43, October 26, 1996, WS-46-WS 57.
22. Dwyer, D. and J. Bruce (eds.). (1988). A Home Divided: Women and Income in the Third World, Standard University Press, Stanford.
23. Engles, F. (1985). The Origin of the Family, Private Property and the State, Progress for Women, New Delhi.
24. Flobre, Nancy. 1986. "Cleaning house: New Perspectives on households and economic development." Journal of Development Economics. 22, pp.5-40.
25. Francois, Patrick, "Gender Discrimination without Gender Difference: Theory and Policy Responses." Journal of public Economics, Vol. 68 NO. 1, (April 1998), pp. 1-32.
26. Frontin, N.M., P. Oreopoulos, and S. Phipps. 2015. "Leaving boys behind: Gender disparities in high academic achievement ." Journal of Human Resources, 50(3), 549-579.
27. Ghorayshi, Parvin and Clarie Belanger. 1996. Women, Work, and Gender Relations in Developing Countries: A Global Perspective. Westport, CT: Greenwood Press. Pp. 40-147.
28. Gordon B. Dahl and Enrico Moretti. 2008. "the Demand for Sons" The Review of Economic Studies. Volume 75 (4), 1085-1120.
29. Government of India (1974). Towards Equality — Report of the Committee on the Status of Women in India, Department of Social Welfare, Ministry of Education and Social Welfare, New Delhi.
30. Haddad, Lawrence, Lynn R. Brown, Andrea Richter, and Lisa Smith. 1995. "The Gender Dimensions of Economic Adjustment Policies: Potential Interactions and Evidence to Date." World Development 23 (6): 881-896



Semester- I

Syllabi of Economics for 1 years P.G Programme as per NEP 2020

Elective (I.I)

Course No: PIECTE107

Credits: 4

Title: Gender Economics

Maximum Marks: 100

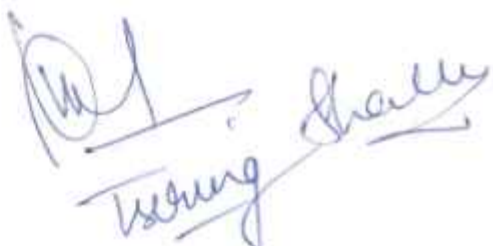
a) Major Examination: 60

b) Minor Tests - I & II: 20 each

Duration of Major Examination: 2:30 hrs

Syllabus for the Examination to be held in ^{Gender Economics} Dec-2026, 27 and 2028

31. Hanushek, Eric A. "The Trade-off Between Child Quality and Quantity ." Journal of Political Economy, Vol. 100, No. 1 (February 1992), pp. 84-117.
32. Himmelweit, Susan. 1995. "The discovery of "unpaid work": the social consequences of the expansion of "work"." Feminist Economics 1(2) pp. 1-19.
33. Howes, C. and A. Singh. 1995. "Long-Term Trends in the World Economy: The Gender Dimension." World Development 23(11): 1895-1912.
34. ILO (1978). Women's Participation in the Economic Activity of Asian Countries, ILO, Geneva.
35. India, Sage Publications, New Delhi.
36. Jhabwala, R. and R.K. Subramanya (eds.). (2000). The Unorganized Sector: Work Empowerment in South Asia, Vistaar Publications, New Delhi.
37. K. Seeta Prabhu, P.C. Sarkar and A. Radha "Gender Related Development Index for Indian States- Methodological Issues", Economic and Political Weekly, Vol. XXXI, No.43, October,26,1996, pp. WS 72-WS79
38. Kabeer, N. (1994). Reversed Realities: Gender Hierarchies in Development Thought, Kali
39. Kabeer, N. and R. Subrahmanian (eds.). (1999). Institutions, Relations and Outcomes, Kali
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.
41. Kalpagam, U. (1994). Labour and Gender: Survival in Urban India, Sage Publications, New
42. Kessler, Daniel, "Birth Order Family Size and Achievement: Family Structure and Wage Determination." Journal of Labour Economics, Vol. 9, No. 4 (October 1991), pp. 413-426.
43. Krishnaraj, M., R.M. Sudarshan and A. Shariff (1999) Gender, Population and Development, Oxford University Press, New Delhi.
44. Krishnaraj, Maithreyi Women and Development, SNDT Women's University, Bombay, 1988.
45. Kuhn, A. and A.N. Wolpe (eds.). (1978) Feminism and Materialism, Routledge and Kegan London.



Semester- I

Syllabi of Economics for 1 years P.G Programme as per NEP 2020

Elective (I.I)

Course No: PIECTE107

Title: Gender Economics

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

b) Minor Tests - I & II: 20 each

Duration of Major Examination: 2:30 hrs

Gender Economics

Syllabus for the Examination to be held in 2026, 27 and 2028

46. Levitov, 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
49. MHRD, Government of India, (1987). Shram Shakti: Report of the National
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.
51. Mies, M. (1998) Patriarchy and Accumulation on a World Scale: Women in the International Division of Labour, Zed Books, London.
52. Mitra, A. (1979). Implications of Declining Sex Ratio in India's Population, Allied, New Delhi.
53. Mukul Mukherjee "Towards Gender -Aware Data Systems- Indian Experience", Economic and Political Weekly, Vol. XXXI, NO.43, October, 26, 1996.
54. Nussbaum, M. and Amartya Sen The Quality of Life (eds.) (1999), Oxford University Press, Delhi.
55. O'Neill, June E. And O'Neill, Dave M. "What Do Wage Differentials Tell Us About Labor Market Discrimination?" NBER Working Paper Services, Working Paper 11240 (March 2005), pp. 1-59.
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.
58. Patel, Vibhuti and Manisha Karne The Macro Economic Policies and the Millennium Development Goals, Gyan Publications, Delhi.
59. Power, Marilyn. 2004. "Social Provisioning as a Starting Point for Feminist Economics." Feminist Economics 10 (3): 3-8.
60. Pyle, Jean. 1997. "Women, the Family and Economic Restructuring: The Singapore Model." Review of Social Economy. 55(2):215-223.



Semester- I

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

Elective (I.I)

Course No: PIECTE107

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 ²⁰²⁵2026, 27 and 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)
62. Sarsons, H. and G.Xu, 2015. "Confidence men? Gender and confidence : evidence among top economists."
63. Schultz, T.P. (1988). "Education Investments and Returns", in Chenery, H.B. and T.N. Security and Social Protection, Sage Publications, New Delhi.
64. Sen, Amartya, 1999. "The Ends and Means of Development" in A.K. Sen, Development as Freedom knopf: 43-51.
65. Sen, G. and K. Brown (1987). Development, Crises and Alternative Visions, Monthly Review Press, New York.
66. Standing, Guy. 1999. "Global Feminization through Flexible Labour: A Theme Revisited." World Development 27 (3): 583-586.
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Semester- I

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

Elective (I.I)

Course No: PIECTE108

Title: Indian Agriculture

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

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

Duration of Major Examination: 2:30 hrs

Indian Agriculture

Syllabus for the Examination to be held in 2026, 27 and 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.

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Semester- I

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

Elective (I.I)

Course No: PIECTE108

Title: Indian Agriculture

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

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

Duration of Major Examination: 2:30 hrs

Indian Agriculture

Syllabus for the Examination to be held in 2026, 27 and 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

BASIC READING LIST

- Bhaduri, A. (1984), The Economic Structure of Backward Agriculture, Macmillan, Delhi.
- Bilgrami, S.A.R. (1996), Agricultural Economics, Himalaya Publishing House, Delhi.
- Dantwala, M.L. et. al. (1991), Indian Agricultural Development Since Independence, Oxford & IBH, New Delhi.
- Government of India (1976), 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.



Semester- I

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

Elective (I.I)

Course No: PIECTE108

Title: Indian Agriculture

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

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

Duration of Major Examination: 2:30 hrs

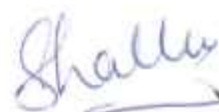
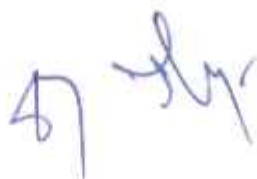
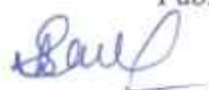
Indian Agriculture ^{Dec} Syllabus for the Examination to be held in 2026, 27 and 2028

- 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- I

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

Elective (I.I)

Course No: PIECTE108

Title: Indian Agriculture

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

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

Duration of Major Examination: 2:30 hrs

Indian Agriculture

Syllabus for the Examination to be held in 2026, 27 and 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. at (1988), Essays in The Commercialization of Indian Agriculture. Oxford University Press, New Delhi.

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Semester- I

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

Elective (I.I)

Course No: PIECTE108

Title: Indian Agriculture

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

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

Duration of Major Examination: 2:30 hrs

Indian Agriculture

Syllabus for the Examination to be held in 2026, 27 and 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(1997), 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.

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Semester- I

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

Elective (I.I)

Course No: PIECTE108

Credits: 4

Title: Indian Agriculture

Maximum Marks: 100

a) Major Examination: 60

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

Duration of Major Examination: 2:30 hrs

Indian Agriculture

Syllabus for the Examination to be held in 2026, 27 and 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.
- Vidyathan, A. (1995), The Indian Economy: Crisis, Response and Prospects, Orient Longmans, New Delhi

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**

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Semester- I

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

Elective (I.II)

Course No: PIECTE109

Credits: 4

Title: Energy Economics

Maximum Marks: 100

a) Major Examination: 60

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

Duration of Major Examination: 2:30 hrs

Energy Economics

Syllabus for the Examination to be held in ^{Dec} 2026, 27 and 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.

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Semester- I

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

Elective (I.II)

Course No: P1ECTE109

Title: Energy Economics

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

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

Duration of Major Examination: 2:30 hrs

Energy Economics

Syllabus for the Examination to be held in ^{Dec} 2026, 27 and 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 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. 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 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- I

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

Elective (I.II)

Course No: P1ECTE110

Title: Demography and Climate Change

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

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

Duration of Major Examination: 2:30 hrs

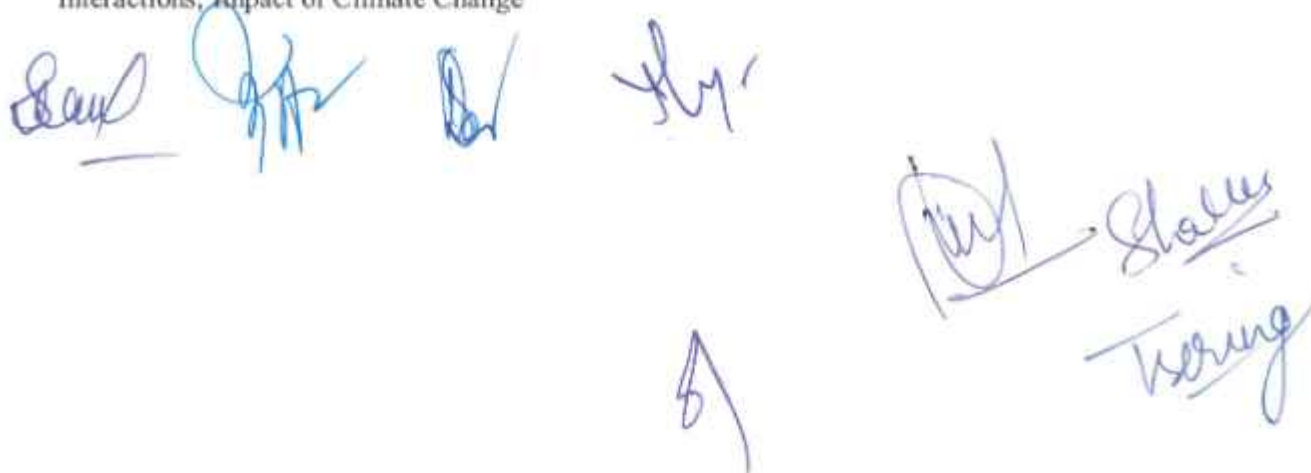
Demography and Climate Change

Syllabus for the Examination to be held in-^{Dec.}2026, 27 and 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- I

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

Elective (I.II)

Course No: PIECTE110

Title: Demography and Climate Change

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

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

Duration of Major Examination: 2:30 hrs

Demography and Climate Change

Syllabus for the Examination to be held in ^{Dec} 2026, 27 and 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- I

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

Elective (LII)

Course No: P1ECTE110

Title: Demography and Climate Change

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

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

Duration of Major Examination: 2:30 hrs

Demography and Climate Change

Syllabus for the Examination to be held in ^{Dec} 2026, 27 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 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. 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.
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.

Semester- I

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

Elective (I.II)

Course No: P1ECTE110

Title: Demography and Climate Change

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

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

Duration of Major Examination: 2:30 hrs

Demography and Climate Change

Syllabus for the Examination to be held in ^{Dec} 2026, 27 and 2028

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.theworlddeconomy.org/publications/worlddeconomy/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. Naki'cenovi'c 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. Naki'cenovi'c, 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.
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.



Semester- I

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

Elective (I.II)

Course No: PIECTE110

Title: Demography and Climate Change

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

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

Duration of Major Examination: 2:30 hrs

Demography and Climate Change

Syllabus for the Examination to be held in ^{Dec} 2026, 27 and 2028

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.
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Semester- I

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

Elective (I.II)

Course No: P1ECTE111

Title: Econometrics II

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

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

Duration of Major Examination: 2:30 hrs

Econometrics II

Syllabus for the Examination to be held in ^{Dec} 2026, 27 and 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

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Semester- I

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

Elective (I.II)

Course No: PIECTE111

Title: Econometrics II

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

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

Duration of Major Examination: 2:30 hrs

Econometrics II

Syllabus for the Examination to be held in ^{Dec} 2026, 27 and 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 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. 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, 4th edn., 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. Koutsoyannis, A. (1.977). Theory of Econometrics (2ndedn.). The Macmillan Press Ltd., London.

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Semester- I

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

Elective (I,II)

Course No: PIECTE112

Title: Health Economics & Policy

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

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

Duration of Major Examination: 2:30 hrs

Health Economics & Policy

Syllabus for the Examination to be held in ^{Dec}2026, 27 and 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- I

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

Elective (I,II)

Course No: P1ECTE112

Title: Health Economics & Policy

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

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

Duration of Major Examination: 2:30 hrs

Health Economics & Policy

Syllabus for the Examination to be held in ^{Dec} 2026, 27 and 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.

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Semester- I

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

Elective (I.II)

Course No: P1ECTE112

Title: Health Economics & Policy

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

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

Duration of Major Examination: 2:30 hrs

Health Economics & Policy

Syllabus for the Examination to be held in ²⁰²⁶2026, 27 and 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.
- Weisbrod 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 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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Semester- I

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

Semester I

Elective Courses (Stream I.II)

Course No: PIECTE113

Title: Economics of Capital Markets

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

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

Duration of Major Examination: 2:30 hrs

Economics of Capital Market

Syllabus for the Examination to be held in ^{Dec} 2026, 27 and 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- I

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

Semester I

Elective Courses (Stream I.II)

Course No: P1ECTE113

Title: Economics of Capital Market

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

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

Duration of Major Examination: 2:30 hrs

Economics of Capital Market

Syllabus for the Examination to be held in^{Dec} 2026, 27 and 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

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Semester- I

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

Semester I

Elective Courses (Stream I.II)

Course No: P1ECTE113

Title: Economics of Capital Markets

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

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

Duration of Major Examination: 2:30 hrs

Economics of Capital Markets

Syllabus for the Examination to be held in ^{Dec} 2026, 27 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

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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- I

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

Semester I

Elective Courses (Stream I.II)

Course No: P1ECTE113

Title: Economics of Capital Markets

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

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

Duration of Major Examination: 2:30 hrs

Economics of Capital Markets

Syllabus for the Examination to be held in²⁰²⁶ 2026, 27 and 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- I

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

Practical
Detailed Syllabus

Course No: P1ECT0114

Title: Data Analysis for Economics

Credits: 4

Data Analysis for Economist

Sr. No.	Course No.	Title of the Course	Contact Hours/Week L-Tu-P	Maximum Marks	Credits
1.	P1ECT0114	Data Analysis for Economics	1-0-3	50	4

Syllabus for Examination to be held in ^{Dec} 2026, 2027 and 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.

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Semester- I

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

Practical/Workshop

Course No: P1ECTC 115

Title: Application of Technology in Economics

Credits: 2

Application of Technology in Economics

Syllabus for Examination to be held in ^{Dec} 2026, 2027 and 2028

Sr. No.	Course No.	Title of the Course	Contact Hours/Week L-Tu-P	Maximum Marks	Credits
1.	P1ECTC 115	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)

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Semester- I

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

Practical/Workshop

Course No: P1ECTC115

Title: Application of Technology in Economics

Credits: 2

Application of Technology in Economics

Syllabus for Examination to be held in ^{Dec} 2026, 2027 and 2028

Sr. No.	Course No.	Title of the Course	Contact Hours/Week L-Tu-P	Maximum Marks	Credits
1.	P1ECTC115	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

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Semester- I

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

Practical/Workshop

Course No: P1ECTC115

Title: Application of Technology in Economics

Credits: 2

Application of Technology in Economics

Syllabus for Examination to be held in ^{Dec} 2026, 2027 and 2028

Sr. No.	Course No.	Title of the Course	Contact Hours/Week L-Tu-P	Maximum Marks	Credits
1.	P1ECTC115	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** 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 One Year P.G Programme as per NEP 2020

Practical/Workshop

Course No: P1ECTC115

Title: Application of Technology in Economics

Credits: 2

Application of Technology in Economics

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

Sr. No.	Course No.	Title of the Course	Contact Hours/Week L-Tu-P	Maximum Marks	Credits
1.	P1ECTC115	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 Grolemond (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>

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Semester- II

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

Course No: P1ECTC 201

Title: INDIAN ECONOMIC
POLICY

Maximum Mark: 100

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

Major-60

Duration: 3 Hrs

Credits: 4

INDIAN ECONOMIC POLICY

Syllabus for the Examination to be held in **MAY: 2027, 2028 & 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

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Semester- II

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

Course No: PIECTC 201

Title: INDIAN ECONOMIC
POLICY

Maximum Mark: 100

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

Major-60

Duration: 3 Hrs

Credits: 4

INDIAN ECONOMIC POLICY

Syllabus for the Examination to be held in MAY 2027, 2028 & 2029.
Upadhyaya Grameen Kaushalya Yojana, Make in India and Atmanirbar 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.

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Semester- II

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

Course No: PLECTC 201

Title: INDIAN ECONOMIC POLICY

Maximum Mark: 100

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

Major-60

Duration: 3 Hrs

Credits: 4

INDIAN ECONOMIC POLICY

Syllabus for the Examination to be held in *MAY 2027, 2028 & 2029.*

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 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.

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Semester- II

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

Course No: PIECTC 201

Title: INDIAN ECONOMIC POLICY

Maximum Mark: 100

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

Major-60

Duration: 3 Hrs

Credits: 4

INDIAN ECONOMIC POLICY

Syllabus for the Examination to be held in *MAY 2027, 2028 & 2029.*

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 AYOGE- Annual Report-2022-23 and other iss

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Semester- II

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

Course No: PLECTC 202

Title: Public Economics

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

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

Duration of Major Examination: 2:30 hrs

Public Economics

Syllabus for the Examination to be held in *MAY 2027, 2028 & 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.

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Semester- II

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

Course No: P1ECTC 202

Title: Public Economics

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

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

Duration of Major Examination: 2:30 hrs

Public Economics

Syllabus for the Examination to be held in *MAY 2027, 2028 & 2029.*
UNIT - III: Fiscal Federalism

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 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

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Semester- II

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

Course No: PLECTC 202

Title: Public Economics

Credits: 4

Maximum Marks: 100

a) Major Examination: 60

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

Duration of Major Examination: 2:30 hrs

Public Economics

Syllabus for the Examination to be held in *MAY 2027, 2028 & 2029.*
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.
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.

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Semester- II

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

Course No: PIECRC 203

Title: Dissertation

Credits: 16

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 %				

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