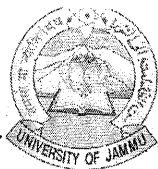


# **ANNEXURE-I**

## **DETAILED CURRICULUM OF MA ECONOMICS**



# UNIVERSITY OF JAMMU

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

Academic Section

Email: [academicsectionju14@gmail.com](mailto:academicsectionju14@gmail.com)

## NOTIFICATION (25/Feb./Adp./22)

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 revised Syllabi and Courses of Studies in the subject of **Economics for Master Degree Programme** of semesters I to IV under **Non- CBCS** for the candidates of **Centre for Distance and Online Education (CDOE)** for the examinations to be held in the years as per details given below:-

Subject	Semester	Course Code	For the examinations to be held in the year	% of Change
Economics	Semester-I	ECO-101	Dec.2025, 2026 and 2027	No Change
		<b>ECO-107</b>	Dec.2025, 2026 and 2027	100%
		ECO-103	Dec.2025, 2026 and 2027	No Change
		ECO-104	Dec.2025, 2026 and 2027	No Change
	Semester-II	ECO-201	May 2026, 2027 and 2028	No Change
		ECO-202	May 2026, 2027 and 2028	No Change
		ECO-203	May 2026, 2027 and 2028	No Change
		<b>ECO-207</b>	May 2026, 2027 and 2028	100%
	Semester-III	ECO-301	Dec 2026, 2027 and 2028	No Change
		ECO-302	Dec 2026, 2027 and 2028	No Change
		ECO-304	Dec 2026, 2027 and 2028	No Change
		ECO-309	Dec 2026, 2027 and 2028	No Change
	Semester-IV	<b>ECO-318</b>	Dec 2026, 2027 and 2028	Change of Title
		ECO-401	May 2027, 2028 and 2029	No Change
		ECO-404	May 2027, 2028 and 2029	No Change
		<b>ECO-422</b>	May 2027, 2028 and 2029	50%
		<b>ECO-423</b>	May 2027, 2028 and 2029	100%
		<b>ECO-425</b>	May 2027, 2028 and 2029	Change of Title

The Revised scheme of examination for Master Degree Programme of semesters I to IV in Economics under **Non- CBCS** pattern for the candidates of **Centre for Distance and Online Education (CDOE)** shall now be 70:30 instead of 80:20 from the Academic Session 2025-26 and onwards in accordance with the Distance Education Board (DEB) guidelines.

The alternative question papers are required to be set as per the University regulation given as under:-

- If the change in the syllabi and courses of study is less than 25%, no alternative question paper will be set
- If the change is 25% and above but below 50%, alternative Question paper be set for one year.





# UNIVERSITY OF JAMMU

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III. If the change is 50% and above or whole scheme is changed, alternative Question paper be set for two years.

The Syllabi of the courses are also available on the University website: [www.jammuuniversity.in](http://www.jammuuniversity.in)

Sd/-

DEAN ACADEMIC AFFAIRS

No. F.Acd/II/25/15048-055

Dated: 25/2/2025

Copy to:

1. Dean, Faculty of Social Sciences
2. Director, Centre for Distance & Online Education (CDOE), University of Jammu
3. HOD/Convener, Board of Studies in Social Sciences.
4. Course Coordinator in Economics, CDOE
5. All members of the Board of Studies.
6. C.A. to the Controller of Examinations
7. Asst. Registrar (Conf. /Exams. UG/Exams. U.G., CDOE)
8. In-charge University Website for necessary action please

*Sumit Sharma*  
25/2/2024  
Joint Registrar (Academic)

185  
25/2/25  
92  
25/02/25

## ANNEXURE-II

### COURSE STRUCTURE OF MA ECONOMICS (NON-CBCS AT CDOE) FOR THE SESSION 2025-26 ONWARDS

#### SEMESTER –I

S.No.	COURSE TITLE	COURSE NO.	CREDITS	%age of change	New code
1	Microeconomics	ECO 101	6	No change	.....
2	Macroeconomics	ECO 102	6	100%	ECO 107
3	Mathematical Methods in Economics	ECO 103	6	No change	.....
4	Development Economics	ECO 104	6	No change	.....

#### SEMESTER-II

S.No.	COURSE TITLE	COURSE NO.	CREDITS	%age of change	New code
1	Advanced Microeconomics	ECO 201	6	No change	.....
2	Advanced Macroeconomics	ECO 202	6	No change	.....
3	Statistical Methods	ECO 203	6	No change	.....
4	Indian Economic Policy*	ECO 204	6	100%	ECO 207

#### SEMESTER-III

S.No.	COURSE TITLE	COURSE NO.	CREDITS	%age of change	New code
1	International Economics	ECO 301	6	No change	.....
2	Theory of Economic Growth	ECO 302	6	No change	.....
3	Industrial Economics	ECO 304	6	No change	.....
4	Agricultural Economics	ECO 309	6	No change	.....
5	Economics of Infrastructure	ECO 318	4		ECO 318

#### SEMESTER-IV

S.No.	COURSE TITLE	COURSE NO.	CREDITS	%age of change	New code
1	International Political Economy	ECO 401	6	No change	.....
2	Public Economics	ECO 404	6	No change	.....
3	Indian Industry	ECO 409	6	More than 50%	ECO 422
4	Indian Agriculture	ECO 415	6	100%	ECO 423

5	Research Methodology	ECO 425	4	....	....
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<b>TOTAL CREDITS</b>	<b>104</b>
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- In course ECO 204, a field visit report is to be submitted by the distance learner, which shall be evaluated out of 10 marks.

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## **ANNEXURE-IV**

### **PROPOSED SCHEME OF EXAMINATION**

#### **I. PATTERN OF INTERNAL ASSESSMENT ASSIGNMENTS**

**Total weightage : 30 marks**

##### **1) Total no. of assignments**

**Six credit course: 3**

**Four credit course: 2**

##### **2) Pattern of Internal assessment assignments in a six credit course\***

IAA1. Long answer type question (of maximum 1200 words) of 10 marks (one to be attempted, out of two, each from unit I and II).

IAA2. Two short answer type questions (of about 600 words), each of 5 marks. These shall be taken from units III and IV.

IAA3. Four very short answer type questions (of about 250 words), each of 2.5 marks. These shall be taken from all the four units.

##### **3) Four credit course**

IAA1. Long answer type question (of about 1500 words) of 15 marks (one to be attempted, out of two, each from unit I and II)

IAA2. Two short answer type questions (of about 800 words), each of 7.5 marks. These shall be taken from units III and IV.

**\*In paper ECO 204, one Internal Assessment Assignment (IAA1) of 10 marks shall be based on a field visit and submission of report by the candidate.**

#### **II. NOTE FOR PAPER SETTING**

The term end examination shall be of 70 marks. There shall be two types of questions in each unit, two short answer type (each of 250 words) and two medium answer type (each of



600 words). The candidate will have to attempt one short answer type question and one medium answer type question from each unit. Each short answer type question shall carry 4.5 marks and each medium answer type question shall carry 13 marks.

A handwritten mark in blue ink, resembling a stylized 'Q' or a signature, located at the bottom left of the page.



### **Programme Outcomes**

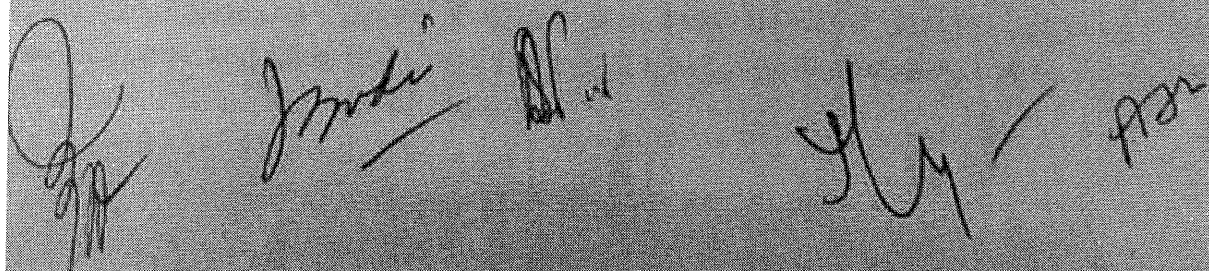
At the end of the M.A Economics programme, the student will have acquired the following things

- PO1: Development of Critical insight and building rational thinking.
- PO2: Develop and demonstrate required skills to get absorb in job market
- PO3: Acquaintance with different ICT tools and their use in modern era.
- PO4: Acquire the skills to think locally but act globally.
- PO5: Cultivate the aptitude for future research and development in an ethical way.
- PO6: Discover and distinguish different economic viewpoints and draw own inferences.
- PO7: Adapt and become ardent towards Gender equality.
- PO8: Demonstrate and built an Environment sensitive aptitude.

### **Programme Specific Outcome**

After the completion of the M.A Economics (Two Years Degree Programme), the student will be able to

- PSO 1: Assess economics as a unified whole, rather than as a series of disconnected ideas.
- PSO2: Appreciate the relevance and limitations of the theories and principles of economics.
- PSO3: Identify, choose and master in the specialized field of economics.
- PSO4: Identify different international, national, regional and local economic issues and problems and carry out independent research.
- PSO5: Use different statistical tools and techniques and shall collect the data, analyze and draw inferences about various statistical hypotheses.
- PSO6: List and formulate different theoretical as well as empirical issues relating to Economic growth and development.
- PSO7: Evaluate different government policies and comprehend how economic theory and practice fits into the larger socio- economic and environmental goals.



**M.A Economics under Non-CBCS (CDOE)**

**Semester-1**

**Syllabus for the examination to be held in December 2025, 2026 & 2027**

**Course Code: ECO-101**

**Title – Microeconomics**

**Credits:6**

**Max. Marks: 100**

**Internal Assessment: 30**

**Time: 3 Hours**

**Semester Exam: 70**

**Course Outcomes**

- To understand economics as a coherent whole and to reinforce its usefulness through the applications to the real-world problems and then solutions
- To learn demand and supply phenomena, consumer and producer behaviour and the markets and its functioning
- To equip students to characterize the market (decide which market or markets best suit the problem being analyzed, and identify the decision makers buyers and sellers who interact there)
- To enable students to describe the conditions necessary for equilibrium in the market, and a method for determining that equilibrium
- To enable students to determine and explore how events or government policies change the market equilibrium.



**M.A Economics under Non-CBCS (CDOE)**

**Semester-1**

**Syllabus for the examination to be held in December 2025, 2026 & 2027**

**Course Code: ECO-101**

**Title – Microeconomics**

**Credits:6**

**Max. Marks: 100**

**Internal Assessment: 30**

**Time: 3 Hours**

**Semester Exam: 70**

- To help the students learn how to think like economists, and in a very natural way so that they see economics as a unified whole, rather than as a series of disconnected ideas

**UNIT-I: Theory of Demand and Supply**

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

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

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## **M.A Economics under Non-CBCS (CDOE)**

### **Semester-1**

**Syllabus for the examination to be held in December 2025, 2026 & 2027**

**Course Code: ECO-101**

**Title – Microeconomics**

**Credits:6**

**Max. Marks: 100**

**Internal Assessment: 30**

**Time: 3 Hours**

**Semester Exam: 70**

#### **UNIT-II: Theory of Consumer Behaviour**

Consumer Choice: Budget Constraint, Changes in Budget Line, Consumer Preferences, Consumer Decisions: Marginal Utility Approach, Combining Budget Constraint and Preferences, Consumer Decisions with Change in Income and Price. Consumer's Demand Curve. Income and Substitution Effects, Consumers in Markets, Indifference Curve Approach: Indifference Curve and Marginal Rate of Substitution, Properties of Indifference Curve, Indifference Map, Indifference curve and consumer Decision Making, Change in Income and Consumer Decisions. Deriving Demand Curve with Indifference Curves, Consumer Decision and Revealed Preference Approach, Consumer Surplus.

#### **UNIT- III: Theory of Production and Cost**

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

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**M.A Economics under Non-CBCS (CDOE)**

**Semester-1**

**Syllabus for the examination to be held in December 2025, 2026 & 2027**

**Course Code: ECO-101**

**Title – Microeconomics**

**Credits:6**

**Max. Marks: 100**

**Internal Assessment: 30**

**Time: 3 Hours**

**Semester Exam: 70**

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

**UNIT- IV Theory of Markets**

Perfect Competition: Characteristics and Profit Maximization, Profit-Maximizing Output Level: TR- TC Approach and MC- MR Approach, Measuring Profit or Loss Firm's Short-Run Supply Curve and Shut Down Price Competitive Markets: Short-Run and Long-Run Equilibrium, Perfect Competition and Plant Size, Competitive Firm and Changes in Demand, Market Signals and Economy: Change in Demand and Reallocation of Resources, Technological Change in Perfect Competition.

Monopoly and its Causes, Monopoly Behaviour: Price or Output Decision, Monopoly: Profit and Loss, Monopoly Markets: Short-Run and Long-Run Equilibrium, Monopoly Vs. Perfect



**M.A Economics under Non-CBCS (CDOE)**

**Semester-1**

**Syllabus for the examination to be held in December 2025, 2026 & 2027**

**Course Code: ECO-101**

**Title – Microeconomics**

**Credits:6**

**Max. Marks: 100**

**Internal Assessment: 30**

**Time: 3 Hours**

**Semester Exam: 70**

Competition, Monopoly Decisions and Changes in Demand and Cost-Saving Technology, Price Discrimination: Conditions, Effects and Types, Price Discrimination and Multiple Prices. Monopolistic Competition: Characteristics, Monopolistic Competition in Short Run and Long Run, Oligopoly and Its Causes, Competition versus Cartel, Non-Cooperative Oligopoly: Cournot Model, Stackelberg Model, and Bertrand Model, Oligopoly versus Other Market Structures: Game Theory Approach, Simple Oligopoly Games, Cooperative Behaviour in Oligopoly Advertising in Monopolistic Competition and Oligopoly.

**Note for Paper Setting**

The term end examination shall be of 70 marks. There shall be two types of questions in each unit, two short answer type (each of 250 words) and two medium answer type (each of 600 words). The candidate will have to attempt one short answer type question and one medium answer type question from each unit. Each short answer type question shall carry 4.5 marks and each medium answer type question shall carry 13 marks.

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**M.A Economics under Non-CBCS (CDOE)**

**Semester-1**

**Syllabus for the examination to be held in December 2025, 2026 & 2027**

**Course Code: ECO-101**

**Title – Microeconomics**

**Credits:6**

**Max. Marks: 100**

**Internal Assessment: 30**

**Time: 3 Hours**

**Semester Exam: 70**

**Basic Readings**

1. Baumol, W.j. (1982) Economic Theory and Operations Analysis, Prentice Hall of India, New Delhi, Delhi.
2. Da Costa G.C (1980) Production, Prices and Distribution, Tata Macgraw Hill, New Delhi
3. Hirshleifer, J and A. Glazer (1997) Price Theory and Application, Prentice Hall of India, New Delhi.
4. Jack Hirshleifer, Amihai Glazer (1997) Price Theory and Application, Prentice Hall of India, New Delhi.
5. Koutsoyiannis, A (1979), Modern Microeconomics, (2nd Edition) Macmillan Press, London.
6. Richard G Lipsey: Colin Harbury, (1992) First Principles of Economics, (2nd Edition), Oxford University Press.
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**M.A Economics under Non-CBCS (CDOE)**

**Semester-1**

**Syllabus for the examination to be held in December 2025, 2026 & 2027**

**Course Code: ECO-101**

**Title – Microeconomics**

**Credits:6**

**Max. Marks: 100**

**Internal Assessment: 30**

**Time: 3 Hours**

**Semester Exam: 70**

8. Stigler, G.(1996) Theory of Price, (4th Edition), Prentice Hall of India, New Delhi.
9. Varian, H. (2000) Microeconomics Analysis, W.W. Norton, New York



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**M.A Economics under Non-CBCS (CDOE)**

**Semester-1**

**Syllabus for the examination to be held in December 2025, 2026 & 2027**

**Course Code: ECO-107**

**Title – Macroeconomics**

**Credits:6**

**Max. Marks: 100**

**Internal Assessment: 30**

**Time: 3 Hours**

**Semester Exam: 70**

**Course Outcomes**

- To understand macroeconomic theoretical structure for the proper comprehension of different issues and policies
- To learn various approaches to National Income and Accounts
- To familiarise the students with the theory of consumption function and investment function
- To study various theories of Business Cycles and Macro Economic Policy
- To study and compare the Keynesian and Neo-classical perspectives on macroeconomic issues





## **M.A Economics under Non-CBCS (CDOE)**

### **Semester-1**

**Syllabus for the examination to be held in December 2025, 2026 & 2027**

**Course Code: ECO-107**

**Title – Macroeconomics**

**Credits:6**

**Max. Marks: 100**

**Internal Assessment: 30**

**Time: 3 Hours**

**Semester Exam: 70**

#### **Unit-I Macro Economic Policy & National Income Accounts**

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

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

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

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**M.A Economics under Non-CBCS (CDOE)**

**Semester-1**

**Syllabus for the examination to be held in December 2025, 2026 & 2027**

**Course Code: ECO-107**

**Title – Macroeconomics**

**Credits:6**

**Max. Marks: 100**

**Internal Assessment: 30**

**Time: 3 Hours**

**Semester Exam: 70**

**Unit-III Sectoral Demand Functions: Consumption and Investment**

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

**Unit-IV Business Cycle and Macro-Economic Policy**

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





## **M.A Economics under Non-CBCS (CDOE)**

### **Semester-1**

**Syllabus for the examination to be held in December 2025, 2026 & 2027**

**Course Code: ECO-107**

**Title – Macroeconomics**

**Credits:6**

**Max. Marks: 100**

**Internal Assessment: 30**

**Time: 3 Hours**

**Semester Exam: 70**

#### **Note for Paper Setting**

The term end examination shall be of 70 marks. There shall be two types of questions in each unit, two short answer type (each of 250 words) and two medium answer type (each of 600 words). The candidate will have to attempt one short answer type question and one medium answer type question from each unit. Each short answer type question shall carry 4.5 marks and each medium answer type question shall carry 13 marks.

#### **Basic Reading List**

- Ackley, G, Macroeconomics Theory and Policy. Macmillan. New York.
- Blackhouse, R and A. Salansi (Eds.) (2000), Macroeconomics and the Real World (2 Vol.) Oxford University Press London.
- Branson, W.A. (1989), Macroeconomic. Theory and Policy. (3rd Edition). Harper and Row, New York.
- Dornbusch, R and F. Stanley (1997), Macroeconomics, McGraw Hill, Inc. New York
- Edmund Phelps (1990), Seven School of Macroeconomics Thought. Oxford University Press.
- Hall, RE and JB Taylor (1986), Macroeconomics, WW Norton, New York.



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**M.A Economics under Non-CBCS (CDOE)**

**Semester-1**

**Syllabus for the examination to be held in December 2025, 2026 & 2027**

**Course Code: ECO-107**

**Title – Macroeconomics**

**Credits:6**

**Max. Marks: 100**

**Internal Assessment: 30**

**Time: 3 Hours**

**Semester Exam: 70**

- Heijdra, BJ and VP Fredrick (2001) Foundations of Modern Macroeconomics, Oxford University Press, New Delhi.
- Jha,R.(1991) Contemporary Macroeconomics Theory and Policy, Wiley Eastern Ltd. New Delhi.
- Romer, D.L. (1996), Advanced Macroeconomics, McGraw Hill Company Ltd., New York.
- Foryen, Richard T. Macroeconomics Theories and Policies, Pearson Education Inc., New York.
- Oliver Blanchard & David R. Johnson (2000). Macroeconomics, Pearson, New Delhi.
- Scafe BL (1977), Cycles, Growth and inflation, McGraw Hill, New York .
- Shapiro, E. (1996), Macroeconomic Analysis, Galgotia Publications, New Delhi.
- Surrey, MJC (Ed.1976), Macroeconomic Themes, Oxford University Press, Oxford.

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**M.A Economics under Non-CBCS (CDOE)**

**Semester-1**

**Syllabus for the examination to be held in December 2025, 2026 & 2027**

**Course Code: ECO-103**

**Title – Mathematical Methods in Economics**

**Credits:6**

**Max. Marks: 100**

**Internal Assessment: 30**

**Time: 3 Hours**

**Semester Exam: 70**

**UNIT-II: Calculus**

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

**UNIT-III: Difference and Differentials**

Differential Equations: definitions and concepts. Solution of first order and second order differential equations, Difference equations definitions and concepts Solution of first order and second order difference equations, Simultaneous Differential equations and phase



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**M.A Economics under Non-CBCS (CDOE)**

**Semester-1**

**Syllabus for the examination to be held in December 2025, 2026 & 2027**

**Course Code: ECO-103**

**Title – Mathematical Methods in Economics**

**Credits:6**

**Max. Marks: 100**

**Internal Assessment: 30**

**Time: 3 Hours**

**Semester Exam: 70**

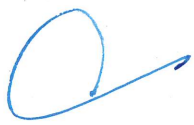
diagrams. Application of difference and differential equations in Economics, Cobweb model, foreign trade multiplier model. Market model with stocks- National Income Model.

**UNIT-IV : Linear Programming, Operations and Applications**

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

**Note for Paper Setting**

The term end examination shall be of 70 marks. There shall be two types of questions in each unit, two short answer type (each of 250 words) and two medium answer type (each of 600 words). The candidate will have to attempt one short answer type question and one medium answer type question from each unit. Each short answer type question shall carry 4.5 marks and

  
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**M.A Economics under Non-CBCS (CDOE)**

**Semester-1**

**Syllabus for the examination to be held in December 2025, 2026 & 2027**

**Course Code: ECO-103**

**Title – Mathematical Methods in Economics**

**Credits:6**

**Max. Marks: 100**

**Internal Assessment: 30**

**Time: 3 Hours**

**Semester Exam: 70**

each medium answer type question shall carry 13 marks.

**Basic Reading List**

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



**M.A Economics under Non-CBCS (CDOE)**

**Semester-1**

**Syllabus for the examination to be held in December 2025, 2026 & 2027**

**Course Code: ECO-103**

**Title – Mathematical Methods in Economics**

**Credits:6**

**Max. Marks: 100**

**Internal Assessment: 30**

**Time: 3 Hours**

**Semester Exam: 70**

**Course Outcomes**

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

**UNIT-I: Equations and Differentiation**

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





**M.A Economics under Non-CBCS (CDOE)**

**Semester-1**

**Syllabus for the examination to be held in December 2025, 2026 & 2027**

**Course Code: ECO-104**

**Title – Development Economics**

**Credits:6**

**Max. Marks: 100**

**Internal Assessment: 30**

**Time: 3 Hours**

**Semester Exam: 70**

**Course Outcomes**

- To comprehend the evolution of the concept of economic development and economic growth
- To be able to learn about the role of market and states in the process of economic development
- To get familiarized with the different indicators and measures of development and development gap
- To make the students aware of importance of relationship between population, poverty and environment
- To learn various models and theories of economic growth and development and to reinforce its usefulness through the applications to the real-world problems and their solutions
- To be able to gain the factual knowledge about the sectoral contribution in the process of economic development
- To be able to get the procedural knowledge about different investment criteria for developing countries like India



**M.A Economics under Non-CBCS (CDOE)**

**Semester-1**

**Syllabus for the examination to be held in December 2025, 2026 & 2027**

**Course Code: ECO-104**

**Title – Development Economics**

**Credits:6**

**Max. Marks: 100**

**Internal Assessment: 30**

**Time: 3 Hours**

**Semester Exam: 70**

**UNIT-1: Social and Institutional Aspects of Development**

Development and underdevelopment-perpetuation of underdevelopment: Sustainable Development. Poverty- Absolute and relative measures of poverty and their merits and demerits; Measuring development and development gap, Human Development Index and other indices of development; Inequality - Measures of Inequality- Effects of Inequality; Human resource development: Population problems- Theory of demographic transition, Population as limits to growth and as ultimate source- Population, Poverty and environment: Economic development and institutions- markets and market failure, state and state failure, issues of good governance.

**Unit-II: Theories of Development**

Classical theory of capitalistic development: Growth and stagnation, Marxian Model of Growth and Collapse and Schumpeter theory of Economic Development, Partial theories of growth and development- vicious circle of poverty, circular causation, Dualism-technical and social; Lewis Model, Ranis and Fei model, Dependency theory of development, Strategies of



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**M.A Economics under Non-CBCS (CDOE)**

**Semester-1**

**Syllabus for the examination to be held in December 2025, 2026 & 2027**

**Course Code: ECO-104**

**Title – Development Economics**

**Credits:6**

**Max. Marks: 100**

**Internal Assessment: 30**

**Time: 3 Hours**

**Semester Exam: 70**

Development-Big push, Balanced growth, Unbalanced growth, Critical minimum effort thesis, Low Level Equilibrium trap.

**Unit-III: Sectoral Aspects of Development and role of international trade**

Role of Agriculture in economic development, Transformation of agriculture and rural development. Complementarity between agriculture and industry, Rationale and pattern of industrialization in developing countries, Labour markets in developing countries, Choice of techniques and appropriate technology, International trade as an engine of growth, Static and dynamic gains of trade, Prebisch- Singer versus free trade, Import substitution versus Export promotion, Dual Gap analysis, WTO and developing countries.

**Unit-IV: Macro Economic Policies, Planning and Development**

Role of Monetary and Fiscal Policies in developing countries, Inflation and Economic growth: Empirical Evidence, Aid versus Trade, technology Inflow, MNCs activity in developing countries, Burden of borrowing-IMF and World bank Policies in developing countries, Need for investment criteria-Present versus Future, Alternative investment criteria, Cost- Benefit analysis. Shadow prices, Project Evaluation and UNIDO guidelines, Need for

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**M.A Economics under Non-CBCS (CDOE)**

**Semester-1**

**Syllabus for the examination to be held in December 2025, 2026 & 2027**

**Course Code: ECO-104**

**Title – Development Economics**

**Credits:6**

**Max. Marks: 100**

**Internal Assessment: 30**

**Time: 3 Hours**

**Semester Exam: 70**

planning-Democratic. Decentralized Indicative planning and Micro Level Planning, Review of Indian Plan Models.

**Note for Paper Setting**

The term end examination shall be of 70 marks. There shall be two types of questions in each unit, two short answer type (each of 250 words) and two medium answer type (each of 600 words). The candidate will have to attempt one short answer type question and one medium answer type question from each unit. Each short answer type question shall carry 4.5 marks and each medium answer type question shall carry 13 marks.

**Basic Reading List**

1. Adelman. I (1961), Theories of Economic Growth and Development. Stanford University Press, Stanford.
2. Behrman, S And T.N. Srinivasan (1995), Handbook of Development Economics, Vol. 1. Elsevier, Amsterdam.
3. Ghatak, S. (1986), An Introduction to Development Economics, Allen and Unwin, London.



**M.A Economics under Non-CBCS (CDOE)**

**Semester-1**

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**Course Code: ECO-104**

**Title – Development Economics**

**Credits:6**

**Max. Marks: 100**

**Internal Assessment: 30**

**Time: 3 Hours**

**Semester Exam: 70**

4. Hayami, Y. (1997), Development Economics, Oxford University Press, New York.
5. Higgins, B. (1959), Economic Development, W.W, Norton, New York.
6. Meir, G.M. (1995), Leading Issues in Economic Development (6th Edition). Oxford University Press, New Delhi.
7. Ray, Debraj (2011), Development Economics, Oxford University Press, Delhi.
8. Thirwall, A.P. (2011), Growth and Development, (9th Edition) Macmillan, U.K.
9. Todaro, M.P. (2011), Economic Development, (9th Edition), Longman London.
10. Chakarvarti. S (1987), Developing Planning. The Indian Experience, Clarendon Press, Oxford.
11. Dasgupta, P. A.K. Sen and S. Maglini (1972), Guidelines for Project Evaluation, UNIDO, Vienna.
12. Mishan, E.J. (1975), Cost Benefit Analysis (2nd Edition) Allen and Unwin, London.
13. Sen, A.K. (Ed.) (1990), Growth Economics, Penguin, Harmondsworth



**M.A Economics under Non-CBCS (CDOE)**

**Semester-I1**

**Syllabus for the examination to be held in May 2026, 2027 & 2028**

**Course Code: ECO-201**

**Title – Advanced Microeconomics**

**Credits:6**

**Max. Marks: 100**

**Internal Assessment: 30**

**Time: 3 Hours**

**Semester Exam: 70**

**Course Outcomes**

- To introduce students to various theories of distribution, Welfare Economics, general equilibrium in closed systems, choice under risk and uncertainty
- To get familiarised with new developments in the theory of markets and information
- To learn to apply Mathematical tools in the special economic situation

**UNIT-1 Alternative Theories of Firm and Information Technology**

Critical evaluation of marginal analysis, Baumol's sales maximisation model, price output determination, optimal advertising expenditure, choice of output of various products and input combinations, pricing and changes in overhead costs, Williamson's model of managerial discretion, Maris' 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 its effects and implications, rights management and sharing of intellectual property.



**M.A Economics under Non-CBCS (CDOE)**

**Semester-II**

**Syllabus for the examination to be held in May 2026, 2027 & 2028**

**Course Code: ECO-201**

**Title – Advanced Microeconomics**

**Credits:6**

**Max. Marks: 100**

**Internal Assessment: 30**

**Time: 3 Hours**

**Semester Exam: 70**

**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, prisoners' 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.

**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





## **M.A Economics under Non-CBCS (CDOE)**

### **Semester-II**

**Syllabus for the examination to be held in May 2026, 2027 & 2028**

**Course Code: ECO-201**

**Title – Advanced Microeconomics**

**Credits:6**

**Max. Marks: 100**

**Internal Assessment: 30**

**Time: 3 Hours**

**Semester Exam: 70**

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, Alias's paradox and explanations, Attitude towards risk- measures of absolute and relative risk aversion, Certainty equivalent, risk premium, risk averter v/s risk lover. Risk lover and gambling. Risk aversion and insurance. Friedman- Savage hypothesis, Markowitz hypothesis, the investors' choice problem, information and consumer's choice, information and insurance-dealing with asymmetric information. symmetric information- the market for lemons and quality choice, adverse selection, moral hazard, signaling, incentive-systems.

#### **Note for Paper Setting**

The term end examination shall be of 70 marks. There shall be two types of questions in each unit, two short answer type (each of 250 words) and two medium answer type (each of 600 words). The candidate will have to attempt one short answer type question and one medium answer type question from each unit. Each short answer type question shall carry 4.5 marks and each medium answer type question shall carry 13 marks.

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**M.A Economics under Non-CBCS (CDOE)**

**Semester-II**

**Syllabus for the examination to be held in May 2026, 2027 & 2028**

**Course Code: ECO-201**

**Title – Advanced Microeconomics**

**Credits:6**

**Max. Marks: 100**

**Internal Assessment: 30**

**Time: 3 Hours**

**Semester Exam: 70**

**Reading List**

- Henderson J and R Quandt: Microeconomics theory, A Mathematical approach, McGraw- Hill.
- Hader, J:Mathematical theory of economic behavior, Addison-Wesley.
- Koutsyannis, A:Modern microeconomics, Macmillan.
- Mas-collel A, M.D. Whinston& J.R.Greene: Microeconomics theory, OUP.
- Salvatore, D:Microeconomics, UP
- A:Microeconomics, UP
- Varian: Intermediate Microeconomics, East West press.



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**M.A Economics under Non-CBCS (CDOE)**

**Semester-II**

**Syllabus for the examination to be held in May 2026, 2027 & 2028**

**Course Code: ECO-202**

**Title – Statistical Methods**

**Credits:6**

**Max. Marks: 100**

**Internal Assessment: 30**

**Time: 3 Hours**

**Semester Exam: 70**

**Course Outcomes**

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

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

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

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

Nature and Purpose of Index Numbers, Commonly Used Index Numbers, Laspeyres and Paasche's Index Numbers, Chain Base Index Numbers, Official Index Number, True Cost of Living Index, Fisher's test for Index Numbers Nature and Decomposition of a Time Series, Analysis of Trend: Polynomial Trend, Non-linear Growth Curves; Moving Average Method, Seasonal Component, Cyclical and Random Component, Forecasts and their Accuracy



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**M.A Economics under Non-CBCS (CDOE)**

**Semester-II**

**Syllabus for the examination to be held in May 2026, 2027 & 2028**

**Course Code: ECO-202**

**Title – Statistical Methods**

**Credits:6**

**Max. Marks: 100**

**Internal Assessment: 30**

**Time: 3 Hours**

**Semester Exam: 70**

Measures of Inequality- Desirable properties of Measure of Inequality, GINI Coefficient, Lorenz Curve, Kuznet Ratio, Co-efficient of variation and Relative Range:

**UNIT-III: Probability and Distribution**

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

**UNIT-IV: Theory of Estimation and Hypothesis Testing**

Point Estimation, Concept of an estimator and its sampling distributions, Properties of a good estimator, Interval estimation, estimating means, proportions, variances of populations from samples Testing of Hypothesis: Formulation of statistical Hypotheses-Null and Alternative Hypothesis Goodness of fit; confidence interval and level of significance, Hypothesis testing based on Z. t, F, and chi-square tests; Errors of types II and I, Analysis of Variance.



**M.A Economics under Non-CBCS (CDOE)**

**Semester-II**

**Syllabus for the examination to be held in May 2026, 2027 & 2028**

**Course Code: ECO-202**

**Title – Statistical Methods**

**Credits:6**

**Max. Marks: 100**

**Internal Assessment: 30**

**Time: 3 Hours**

**Semester Exam: 70**

**Note for Paper Setting**

The term end examination shall be of 70 marks. There shall be two types of questions in each unit, two short answer type (each of 250 words) and two medium answer type (each of 600 words). The candidate will have to attempt one short answer type question and one medium answer type question from each unit. Each short answer type question shall carry 4.5 marks and each medium answer type question shall carry 13 marks.

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3. Hoel, Paul. G. (1954), Introduction to Mathematical Statistics, Wiley and Sons.
4. Hogg, R.V. and A.T. Craig (1970), Introduction to Mathematical Statistics, MacMillan Publishing Co., New York.
5. Nagar, A.L. and R.K. Das (1993), Basic Statistics, Oxford University Press, New Delhi.
6. Rao, C.R. (1965), Linear Statistical Inference and Application, Wiley and Sons.
7. Sukhatme, P.V. and B.V. Sukhatme (1970) Sampling Theory of Survey with Applications, Iowa State University Press.

**M.A Economics under Non-CBCS (CDOE)**

**Semester-II**

**Syllabus for the examination to be held in May 2026, 2027 & 2028**

**Course Code: ECO-202**

**Title – Statistical Methods**

**Credits:6**

**Max. Marks: 100**

**Internal Assessment: 30**

**Time: 3 Hours**

**Semester Exam: 70**

8. Walpole, R. Statistics (1980), Collier Macmillan.
9. Ray, Debraj (1998), Development Economics, OUP.



**M.A Economics under Non-CBCS (CDOE)**

**Semester-II**

**Syllabus for the examination to be held in May 2026, 2027 & 2028**

**Course Code: ECO-202**

**Title – Advanced Macroeconomics**

**Credits:6**

**Max. Marks: 100**

**Internal Assessment: 30**

**Time: 3 Hours**

**Semester Exam: 70**

**Course Outcomes**

- Understand, explain and constructively criticise 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.



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## **M.A Economics under Non-CBCS (CDOE)**

### **Semester-II**

**Syllabus for the examination to be held in May 2026, 2027 & 2028**

**Course Code: ECO-202**

**Title – Advanced Macroeconomics**

**Credits:6**

**Max. Marks: 100**

**Internal Assessment: 30**

**Time: 3 Hours**

**Semester Exam: 70**

#### **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 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 schedule, Keynesian versus classical theories of aggregate demand and supply.



**M.A Economics under Non-CBCS (CDOE)**

**Semester-II**

**Syllabus for the examination to be held in May 2026, 2027 & 2028**

**Course Code: ECO-202**

**Title – Advanced Macroeconomics**

**Credits:6**

**Max. Marks: 100**

**Internal Assessment: 30**

**Time: 3 Hours**

**Semester Exam: 70**

**Syllabus for the Examination to be held in May 2026 to May 2028**

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

Inflation and Unemployment-the Philips 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 stabilisation policies for output and employment, Evolution of the natural rate concept-determination of the natural rate concept – determination of the natural rate of unemployment .

New Classical Economics- 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**

The term end examination shall be of 70 marks. There shall be two types of questions in each unit, two short answer type (each of 250 words) and two medium answer type (each of 600 words). The candidate will have to attempt one short answer type question and one medium answer type question from each unit. Each short answer type question shall carry 4.5 marks and each medium answer type question shall carry 13 marks.

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**M.A Economics under Non-CBCS (CDOE)**

**Semester-II**

**Syllabus for the examination to be held in May 2026, 2027 & 2028**

**Course Code: ECO-202**

**Title – Advanced Macroeconomics**

**Credits:6**

**Max. Marks: 100**

**Internal Assessment: 30**

**Time: 3 Hours**

**Semester Exam: 70**

**Basic Reading List**

1. Abel Andrew B, & Ben S. Bemanke (2006). Macroeconomics, Pearson Education inc., New York.
2. Ackly, G (1978) Macroeconomics Theory and Policy, Macmillan, New York.
3. Black house, R. and A. Salansi (Eds) (2000), Macroeconomics and the Real World (2Vols.). Oxford University Press, London.
4. Branson, W A (1989) Macroeconomic Theory and Policy, (3rd Edition), Harper and Row ,New York.
5. Dorsbusch R. and F. Stanley (1997), Macroeconomics, McCaw Hill Inc., New York.
6. Froyen, T. R. (2015), Macroeconomics: theories and policies, Pearson India Education Services Pvt Ltd, Noida, India, ISBN 9789132518322.
7. Hall R E and J.B. Taylor (1986), Macroeconomics, WW Norton, New York.
8. Heijra, B.J. and V.P. Fredrick (2001), Foundations of Modern Macroeconomics, Oxford University Press, New Delhi.
9. Jha, R. (1991) Contemporary Macroeconomics Theory and Policy, Wiley Eastern Ltd., New Delhi.
10. Romer, D.L. (1996), Advanced Macroeconomics. McGraw Hill Company Ltd., New York.
11. Scarfe, BL. (1977), Cycles, Growth and Inflation, McGraw Hill, New York .
12. Shapiro, F. (1996), Macroeconomic Analysis, Galgotia Publications, New Delhi.

**M.A Economics under Non-CBCS (CDOE)**

**Semester-II**

**Syllabus for the examination to be held in May 2026, 2027 & 2028**

**Course Code: ECO-203**

**Title – Statistical Methods**

**Credits:6**

**Max. Marks: 100**

**Internal Assessment: 30**

**Time: 3 Hours**

**Semester Exam: 70**

**Course Outcomes**

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

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

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

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

Nature and Purpose of Index Numbers, Commonly Used Index Numbers, Laspeyres and Paasche's Index Numbers, Chain Base Index Numbers, Official Index Number, True Cost of Living Index, Fisher's test for Index Numbers Nature and Decomposition of a Time Series, Analysis of Trend: Polynomial Trend, Non-linear Growth Curves; Moving Average Method, Seasonal Component, Cyclical and Random Component, Forecasts and their Accuracy

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**M.A Economics under Non-CBCS (CDOE)**

**Semester-I1**

**Syllabus for the examination to be held in May 2026, 2027 & 2028**

**Course Code: ECO-203**

**Title – Statistical Methods**

**Credits:6**

**Max. Marks: 100**

**Internal Assessment: 30**

**Time: 3 Hours**

**Semester Exam: 70**

Measures of Inequality- Desirable properties of Measure of Inequality, GINI Coefficient, Lorenz Curve, Kuznet Ratio, Co-efficient of variation and Relative Range.

**UNIT-III: Probability and Distribution**

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

**UNIT-IV: Theory of Estimation and Hypothesis Testing**

Point Estimation, Concept of an estimator and its sampling distributions, Properties of a good estimator, Interval estimation, estimating means, proportions, variances of populations from samples Testing of Hypothesis: Formulation of statistical Hypotheses-Null and Alternative Hypothesis Goodness of fit; confidence interval and level of significance, Hypothesis testing based on Z, t, F, and chi-square tests; Errors of types II and I, Analysis of Variance.

  
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**M.A Economics under Non-CBCS (CDOE)**

**Semester-II**

**Syllabus for the examination to be held in May 2026, 2027 & 2028**

**Course Code: ECO-203**

**Title – Statistical Methods**

**Credits:6**

**Max. Marks: 100**

**Internal Assessment: 30**

**Time: 3 Hours**

**Semester Exam: 70**

**Note for Paper Setting**

The term end examination shall be of 70 marks. There shall be two types of questions in each unit, two short answer type (each of 250 words) and two medium answer type (each of 600 words). The candidate will have to attempt one short answer type question and one medium answer type question from each unit. Each short answer type question shall carry 4.5 marks and each medium answer type question shall carry 13 marks.

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3. Hoel, Paul. G. (1954), Introduction to Mathematical Statistics, Wiley and Sons.
4. Hogg, R.V. and A.T. Craig (1970), Introduction to Mathematical Statistics, MacMillan Publishing Co., New York.
5. Nagar, A.L. and R.K. Das (1993), Basic Statistics, Oxford University Press, New Delhi.
6. Rao, C.R. (1965), Linear Statistical Inference and Application, Wiley and Sons.
7. Sukhatme, P.V. and B.V. Sukhatme (1970) Sampling Theory of Survey with Applications, Iowa State University Press.

  
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**M.A Economics under Non-CBCS (CDOE)**

**Semester-II**

**Syllabus for the examination to be held in May 2026, 2027 & 2028**

**Course Code: ECO-203**

**Title – Statistical Methods**

**Credits:6**

**Max. Marks: 100**

**Internal Assessment: 30**

**Time: 3 Hours**

**Semester Exam: 70**

8. Walpole, R. Statistics (1980), Collier Macmillan.
9. Ray, Debraj (1998), Development Economics, OUP.



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**M.A Economics under Non-CBCS (CDOE)**

**Semester-II**

**Syllabus for the examination to be held in May 2026, 2027 & 2028**

**Course Code: ECO-207**

**Title – Indian Economic Policy**

**Credits:6**

**Max. Marks: 100**

**Internal Assessment: 30**

**Time: 3 Hours**

**Semester Exam: 70**

**Course Outcomes**

- 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 the economy.
- To prepare the students to critically evaluate and analyse the economic policies of India in the past and present, and to understand the place of Indian economy at the international level, particularly after the economic reforms in India
- To understand the recent initiatives for economic growth and development taken by the govt. have also been incorporated
- To sharpen the analytical faculty of the students to understand the whole system of economic policy in India





**M.A Economics under Non-CBCS (CDOE)**

**Semester-II**

**Syllabus for the examination to be held in May 2026, 2027 & 2028**

**Course Code: ECO-207**

**Title – Indian Economic Policy**

**Credits:6**

**Max. Marks: 100**

**Internal Assessment: 30**

**Time: 3 Hours**

**Semester Exam: 70**

**UNIT-I Economic Development and Growth Policies**

Economic development and social opportunity- development, freedom and opportunity education, health ,state and the market: principles of integral humanism, Human Development, Indexing Human Development in India- indicators scaling and 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 a catalyst for economic development; Developed India: Model of SDG localization, SDG Agenda 2030; Vision and progress towards 2047.

**UNIT-II Agriculture and Industrial Sectors of the Indian Economy**

New Agricultural policy 2022- Objectives, salient features and role to strengthen Indian economy; recent changes to support the Agriculture sector in Budget-2023; National agriculture Market (e- NAM), critical appraisal of food security policy- Pradhan Mantri Garib Kalyan Anna Yojana (PMGKAY) Pradhan Mantri Fasal Bima Yojana (PMFBY); Deendayal Upadhyay Grameen Kaushalya Yojana ;Make in India and Atamnirbhar Bharat- advantages and disadvantages from the make in India initiative; India's digital revolution- 21st century IT



**M.A Economics under Non-CBCS (CDOE)**

**Semester-II**

**Syllabus for the examination to be held in May 2026, 2027 & 2028**

**Course Code: ECO-207**

**Title – Indian Economic Policy**

**Credits:6**

**Max. Marks: 100**

**Internal Assessment: 30**

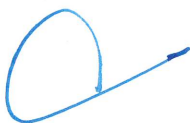
**Time: 3 Hours**

**Semester Exam: 70**

infrastructure and software capabilities- skill building for the future and digitally enabled jobs; impact of Covid -19 on Indian economy.

**UNIT-III Recent trends in Indian planning**

NITI Ayog-Objectives & Features, seven pillars of NITI Ayog, Strategy for new India@75- Drivers: growth, employment and labour reforms, technology and innovation, industry, doubling farmers' income, modernising agriculture, policy and governance, value chain and rural infrastructure; financial inclusion; housing for all; infrastructure-energy, road transport, railways, ports and 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 and Entrepreneurship; Start-up India programme, Public health management and action- Ayushman Bharat Yojana, gender- gender responsive budgeting, gender equity and closing the women's health gap, a \$1 trillion opportunity; governance- balanced regional development, the North East region,. Deendayal Upadhyay Grameen Kaushalya Yojana.



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**M.A Economics under Non-CBCS (CDOE)**

**Semester-II**

**Syllabus for the examination to be held in May 2026, 2027 & 2028**

**Course Code: ECO-207**

**Title – Indian Economic Policy**

**Credits:6**

**Max. Marks: 100**

**Internal Assessment: 30**

**Time: 3 Hours**

**Semester Exam: 70**

**Unit-IV Economic Reforms & External Sector**

Economic reforms- path to economic transformation in India, economic crisis and initiatives taken by the government; reforms for macroeconomic stabilization- fiscal reforms, monetary and financial reforms and currency exchange reforms, reforms for microeconomic structural adjustment- liberalisation of business, privatization of public sector and disinvestment, Public Private Partnership (PPP) and globalisation of the Indian economy; Critique of economic reforms- GDP growth, employment and poverty, impact of economic reforms on labour, India's foreign trade and BOPs, economic reforms and investment flows, economic reforms and regional disparities, economic reforms and human development, external sector of India- components, reforms and significance.

**Note for Paper Setting**

The term end examination shall be of 70 marks. There shall be two types of questions in each unit, two short answer type (each of 250 words) and two medium answer type (each of 600 words). The candidate will have to attempt one short answer type question and one medium answer type question from each unit. Each short answer type question shall carry 4.5 marks and each medium answer type question shall carry 13 marks.

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**M.A Economics under Non-CBCS (CDOE)**

**Semester-II**

**Syllabus for the examination to be held in May 2026, 2027 & 2028**

**Course Code: ECO-207**

**Title – Indian Economic Policy**

**Credits:6**

**Max. Marks: 100**

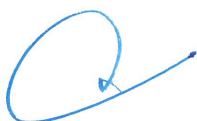
**Internal Assessment: 30**

**Time: 3 Hours**

**Semester Exam: 70**

**Basic Readings**

1. Puri, VK & SK. Misra(2023), Indian Economy, Himalaya Publishing House, Mumbai.
2. TW Schultz (1961), "Investment in human capital", The American Economic Review, Vol.31, No.1.
3. Dreze. Jean & Amartya Sen (1997), Indian Economic Development and Social Opportunity, Delhi: Oxford India.
4. UNDP, Human Development Reports, different issues,. New Delhi: Oxford University Press.
5. Government of India, Planning Commission, different five year plans, Planning Commission.
6. Government of India, Economic Survey, different issues.
7. Sen, Amartya (1977), "Poverty and Economic Development", in CD Wadva.ed. *Some Problems of India's Economic Policy*.
8. World Bank (2003), India: Sustaining Reforms, Reducing Poverty, New Delhi: Oxford University Press.
9. Rakesh Mohan (2017). India Transformed: 15 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 AYOOG- Annual report-2022-23 and other issues.



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**M.A Economics under Non-CBCS (CDOE)**

**Semester-III**

**Syllabus for the examination to be held in December 2026, 2027 & 2028**

**Course Code: ECO-301**

**Title – International Economics**

**Credits:6**

**Max. Marks: 100**

**Internal Assessment: 30**

**Time: 3 Hours**

**Semester Exam: 70**

**Course Outcomes**

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

**UNIT- I: Theory of International Trade- I**

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

**UNIT- II: Theory of International Trade-II**

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



**M.A Economics under Non-CBCS (CDOE)**

**Semester-III**

**Syllabus for the examination to be held in December 2026, 2027 & 2028**

**Course Code: ECO-301**

**Title – International Economics**

**Credits:6**

**Max. Marks: 100**

**Internal Assessment: 30**

**Time: 3 Hours**

**Semester Exam: 70**

**UNIT- III: Gains from Trade and International Trade Policy**

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

**UNIT-IV: Balance of Payments**

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

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**M.A Economics under Non-CBCS (CDOE)**

**Semester-III**

**Syllabus for the examination to be held in December 2026, 2027 & 2028**

**Course Code: ECO-301**

**Title – International Economics**

**Credits:6**

**Max. Marks: 100**

**Internal Assessment: 30**

**Time: 3 Hours**

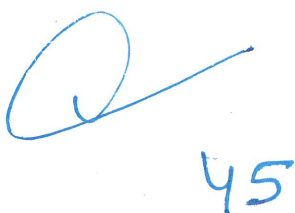
**Semester Exam: 70**

**Note for Paper Setting**

The term end examination shall be of 70 marks. There shall be two types of questions in each unit, two short answer type (each of 250 words) and two medium answer type (each of 600 words). The candidate will have to attempt one short answer type question and one medium answer type question from each unit. Each short answer type question shall carry 4.5 marks and each medium answer type question shall carry 13 marks.

**Basic Reading List**

1. Paul R. Krugman and Maurice Obstfeld (2007), International Economics; Theory and Policy, Pearson Education, New Delhi
2. Jagdish N. Bhagwati et al (2003), Lectures on International Trade, Oxford University Press, New Delhi
3. Dominick Salvatore (2004) International Economics, John Wiley & Sons Inc.
4. H.G Mannur (1998) International Economics, Vikas Publishers, New Delhi.
5. Dunn R. M. & J.H Mutti (2000) International Economics, Routledge, London
6. Carbaugh R. J (1999) International Economics, Routledge, London.



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**M.A Economics under Non-CBCS (CDOE)**

**Semester-III**

**Syllabus for the examination to be held in December 2026, 2027 & 2028**

**Course Code: ECO-301**

**Title – International Economics**

**Credits:6**

**Max. Marks: 100**

**Internal Assessment: 30**

**Time: 3 Hours**

**Semester Exam: 70**

7. Dana, M. S (2000) International Economics: Study Guide and Workbook, Routledge Publishers, London
8. Bhagwati J(1988) Protectionism, Cambridge University Press Massachusetts
9. Sodersten Bo (1991) International Economics, The Macmillan Press Ltd. London.
10. Bhagwati, J. (Ed.) (1981) International Trade: Selected Readings Cambridge University Press, Massachusetts.

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**M.A Economics under Non-CBCS (CDOE)**

**Semester-III**

**Syllabus for the examination to be held in December 2026, 2027 & 2028**

**Course Code: ECO-302**

**Title – Theory of Economic Growth**

**Credits:6**

**Max. Marks: 100**

**Internal Assessment: 30**

**Time: 3 Hours**

**Semester Exam: 70**

**Course Outcomes**

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

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

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

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

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



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**M.A Economics under Non-CBCS (CDOE)**

**Semester-III**

**Syllabus for the examination to be held in December 2026, 2027 & 2028**

**Course Code: ECO-302**

**Title – Theory of Economic Growth**

**Credits:6**

**Max. Marks: 100**

**Internal Assessment: 30**

**Time: 3 Hours**

**Semester Exam: 70**

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

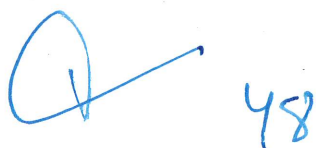
The Extension of the Neo-Classical Model of two-sectors -Uzawa's Two-Sector Model of Growth, Money and Economic Growth Optimum Growth Models-Introduction and the Ramsey Model, Technical Progress: Different Types of Technical Progress.

**UNIT-IV: Endogenous Growth Models and Growth Accounting**

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

**Note for Paper Setting**

The term end examination shall be of 70 marks. There shall be two types of questions in each unit, two short answer type (each of 250 words) and two medium answer type (each of 600 words). The candidate will have to attempt one short answer type question and one medium answer type question from each unit. Each short answer type question shall carry 4.5 marks and each medium answer type question shall carry 13 marks.

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**M.A Economics under Non-CBCS (CDOE)**

**Semester-III**

**Syllabus for the examination to be held in December 2026, 2027 & 2028**

**Course Code: ECO-302**

**Title – Theory of Economic Growth**

**Credits:6**

**Max. Marks: 100**

**Internal Assessment: 30**

**Time: 3 Hours**

**Semester Exam: 70**

**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.



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**Semester-III**

**Syllabus for the examination to be held in December 2026, 2027 & 2028**

**Course Code: ECO-304**

**Title – Industrial Economics**

**Credits:6**

**Max. Marks: 100**

**Internal Assessment: 30**

**Time: 3 Hours**


**Semester Exam: 70**

**Course Outcomes**

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

**UNIT-I: Framework and Problems of Industrial Economics**

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

  
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**M.A Economics under Non-CBCS (CDOE)**

**Semester-III**

**Syllabus for the examination to be held in December 2026, 2027 & 2028**

**Course Code: ECO-304**

**Title – Industrial Economics**

**Credits:6**

**Max. Marks: 100**

**Internal Assessment: 30**

**Time: 3 Hours**


**Semester Exam: 70**

**UNIT- II: Market Structure**

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

**UNIT-III: Market Conduct**

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

  
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**M.A Economics under Non-CBCS (CDOE)**

**Semester-III**

**Syllabus for the examination to be held in December 2026, 2027 & 2028**

**Course Code: ECO-304**

**Title – Industrial Economics**

**Credits:6**

**Max. Marks: 100**

**Internal Assessment: 30**

**Time: 3 Hours**

**Semester Exam: 70**

**UNIT-IV: Market Performance and Project appraisal**

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

**Note for Paper Setting**

The term end examination shall be of 70 marks. There shall be two types of questions in each unit, two short answer type (each of 250 words) and two medium answer type (each of 600 words). The candidate will have to attempt one short answer type question and one medium answer type question from each unit. Each short answer type question shall carry 4.5 marks and each medium answer type question shall carry 13 marks.

  
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**M.A Economics under Non-CBCS (CDOE)**

**Semester-III**

**Syllabus for the examination to be held in December 2026, 2027 & 2028**

**Course Code: ECO-304**

**Title – Industrial Economics**

**Credits:6**

**Max. Marks: 100**

**Internal Assessment: 30**

**Time: 3 Hours**

**Semester Exam: 70**

**Basic Reading List**

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



**M.A Economics under Non-CBCS (CDOE)**

**Semester-III**

**Syllabus for the examination to be held in December 2026, 2027 & 2028**

**Course Code: ECO-304**

**Title – Industrial Economics**

**Credits:6**

**Max. Marks: 100**

**Internal Assessment: 30**

**Time: 3 Hours**

**Semester Exam: 70**

12. Institute of railway transport, Investment policy.

13. Visaria, P. and R. Basant (1994), Non-agricultural employment in India: Trends and prospects, Sage Publications, New Delhi.

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**M.A Economics under Non-CBCS (CDOE)**

**Semester-III**

**Syllabus for the examination to be held in December 2026, 2027 & 2028**

**Course Code: ECO-309**

**Title – Agricultural Economics**

**Credits:6**

**Max. Marks: 100**

**Internal Assessment: 30**

**Time: 3 Hours**

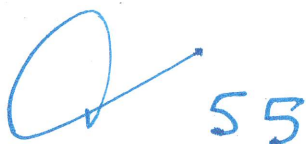
**Semester Exam: 70**

**Course outcomes**

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

**UNIT- I: Agriculture Economics - Nature and Scope**

Nature and Scope of Agricultural Economics; Role of agriculture in economic development, contribution of land, capital and labour in agricultural development; Different types of farming, Risk and Uncertainty in agriculture sources, expectation and variation measures to

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**M.A Economics under Non-CBCS (CDOE)**

**Semester-III**

**Syllabus for the examination to be held in December 2026, 2027 & 2028**

**Course Code: ECO-309**

**Title – Agricultural Economics**

**Credits:6**

**Max. Marks: 100**

**Internal Assessment: 30**

**Time: 3 Hours**

**Semester Exam: 70**


control farm risk; Supply and demand behavior in agriculture; Farm mechanization, Land Reforms - theoretical explanation.

**UNIT-II: Agriculture and Economic Development**

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

**UNIT-III: Agricultural Production and Productivity**

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

  
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**M.A Economics under Non-CBCS (CDOE)**

**Semester-III**

**Syllabus for the examination to be held in December 2026, 2027 & 2028**

**Course Code: ECO-309**

**Title – Agricultural Economics**

**Credits:6**

**Max. Marks: 100**

**Internal Assessment: 30**

**Time: 3 Hours**

**Semester Exam: 70**

**UNIT-IV: Agriculture Marketing, Prices and Development**

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

**Note for Paper Setting**

The term end examination shall be of 70 marks. There shall be two types of questions in each unit, two short answer type (each of 250 words) and two medium answer type (each of 600 words). The candidate will have to attempt one short answer type question and one medium answer type question from each unit. Each short answer type question shall carry 4.5 marks and each medium answer type question shall carry 13 marks.

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**M.A Economics under Non-CBCS (CDOE)**

**Semester-III**

**Syllabus for the examination to be held in December 2026, 2027 & 2028**

**Course Code: ECO-309**

**Title – Agricultural Economics**

**Credits:6**

**Max. Marks: 100**

**Internal Assessment: 30**

**Time: 3 Hours**

**Semester Exam: 70**

**Basic Reading List**

1. Bhaduri, A. (1984), The Economic Structure of Backward Agriculture, Macmillan, Delhi.
2. Bilgrami, S.A.R. (1996), Agricultural Economics, Himalaya Publishing House, Delhi.
3. Dantwala, M.L. et, al. 1991), Indian Agricultural Development Science Independence, - Oxford & IBH, New Delhi.
4. Government of India (1976), Report of the National Commission on Agriculture, New Delhi.
5. Government of India, Economic Survey (Annual), New Delhi.
6. Gulati, A., and T. Kelly 1999) Trade Liberalisation and Indian Agriculture, Oxford University Press, New Delhi.
7. Joshi, P.C. (1975), Land Reforms in India: Trends and prospects, Allied Publishers, Bombay.
- Kahlon, A.S. and Tyagi D.S. (1983), Agriculture Price Policy in India, Allied Publishers, New Delhi:
9. Rao, C.H. Hanumantha (1975), Agricultural Growth, Rural Poverty and Environmental Degradation in India, Oxford
10. University Press, New Delhi.
11. Reserve Bank of India, Report on Currency and Finance (Annual), Mumbai.
12. Rudra, A, (1982), Indian Agricultural Economics: Myths and reality, Allied Publishers. New Delhi.

  
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**M.A Economics under Non-CBCS (CDOE)**

**Semester-III**

**Syllabus for the examination to be held in December 2026, 2027 & 2028**

**Course Code: ECO-309**

**Title – Agricultural Economics**

**Credits:6**

**Max. Marks: 100**

**Internal Assessment: 30**

**Time: 3 Hours**

**Semester Exam: 70**

13. Stini, G.R. (1979), Farm Size. Resource Use Efficiency and Income Distribution, Allied Publishers, New Delhi.
14. Papola, T.S. (1982), Rural Industrialization in India, Himalaya Publishing House, Bombay.
15. Soni, R.N. (1995), Leading Issues in Agricultural Economics, Arihant Press, Jalandhar.
- Wanmali S. and Ramasamy (Eds.) (1995), Developing Rural Infrastructure. Macmillan, New Delhi.
17. Appu, P.S. (1996), Land Reforms in India, Vikas, New Delhi.
18. Bardhan, P. (1984), Land, Labour and Rural Poverty, Oxford University Press, New Delhi.
- Brahmananda, P.R. and V.R. Panchumukhi (Eds)(1987), The Development Process of the Indian Economy, Himalaya Publishing House, Bombay.
20. Chadha, G.K. and A.N. Sharma (1997), Growth, Employment and Poverty: Change and Continuity in Rural India, Vikas Publishing, New Delhi.
21. Chakarvarty, S. (1987), Development Planning: The Indian Experience, Oxford University Press, New Delhi.
22. Raglivan and L. Sarkar (Eds.) (1996), Poverty and Employment, New Age, New Delhi.

**M.A Economics under Non-CBCS (CDOE)**

**Semester-III**

**Syllabus for the examination to be held in December 2026, 2027 & 2028**

**Course Code: ECO-316**

**Title – Economics of Infrastructure**

**Credits:4**

**Max. Marks: 100**

**Internal Assessment: 30**

**Time: 3 Hours**

**Semester Exam: 70**

**Preamble:** The course with main emphasis on energy and transport aims at imparting adequate theoretical knowledge to student, so that they are able to understand the importance of infrastructure in economic development. The course is particularly meant for those students who intend to specialize in energy usage, conservation, planning and forecasting and issues related to transport infrastructure development

**UNIT – I: Infrastructure and Economic Development:**

Infrastructure and Economic Development: theoretical foundations and empirical basis; Components of infrastructure: social and economic infrastructure, infrastructure as a public good, pricing of public utilities: Marginal Cost pricing and other methods of pricing, Cross-Subsidization-free price.

**UNIT – II: Transport Economics:**

Transport and economic development; Demand for transport services: passenger freight; Factors determining demand for transport services; structure of transport costs: concepts of shared and avoidable costs; capital costs in transport and process of recovering capital cost; Transport externalities and their valuation: Alternative pricing strategies for transport services; transport infrastructure user charges to contain transport externalities; Weber's theory of location.



**M.A Economics under Non-CBCS (CDOE)**

**Semester-III**

**Syllabus for the examination to be held in December 2026, 2027 & 2028**

**Course Code: ECO-316**

**Title – Economics of Infrastructure**

**Credits:4**

**Max. Marks: 100**

**Internal Assessment: 30**

**Time: 3 Hours**

**Semester Exam: 70**

**UNIT – III: Energy Economics-I**

Importance and scope of energy economics, primacy of energy in the process of economic development, factors determining the demand for energy; Types of energy: primary energy and secondary energy; Energy conservation: Economics of energy conservation, Effects of market imperfection on energy conservation and policy options; main features of India's recent energy policy.

**UNIT – IV: Energy Economics-II**

Energy sources: Renewable and Non –conventional, uses and substitution possibilities, Energy markets, Planning and role of demand management : Objectives and Need for energy planning and demand management, integrated framework for energy pricing: short run Vs long run marginal cost pricing, peak load and seasonal pricing, Shadow pricing , Pricing of depleteable or non-renewable energy resources.

**Note for Paper Setting**

The term end examination shall be of 70 marks. There shall be two types of questions in each unit, two short answer type (each of 250 words) and two medium answer type (each of 600 words). The candidate will have to attempt one short answer type question and one medium answer type question from each unit. Each short answer type question shall carry 4.5 marks and each medium

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**M.A Economics under Non-CBCS (CDOE)**

**Semester-III**

**Syllabus for the examination to be held in December 2026, 2027 & 2028**

**Course Code: ECO-316**

**Title – Economics of Infrastructure**

**Credits:4**

**Max. Marks: 100**

**Internal Assessment: 30**

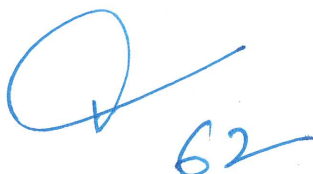
**Time: 3 Hours**

**Semester Exam: 70**

answer type question shall carry 13 marks.

**Basic Reading List:**

1. Mohan MUnasinghe and Gunter Schramm(1983), Energy Economics, Demand Management and Conservation Policies, Van Nostrand Reinhold Company New York.
2. Mohan MUnasinghe and Peter Meier (2009), Energy policy analysis Modeling Cambridge Energy and Env. Series.
3. Parikh jyoti (1997) Energy models for 2000 and beyond, Tata Mc Graw Hill.
4. H.S Norton, Modern Transport Economics.
5. Chopra S.K, Energy policy for India: Towards sustainable energy security in India in 21<sup>st</sup> century, Oxford and IBH Publishers.
6. Kenneth Button Transport Economics (Third Edition) , Edward Elgar Cheltenham, UK.
7. Word Bank, Greening Greening industry (Latest edition) Oxford University Press.

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**M.A Economics under Non-CBCS (CDOE)**

**Semester-IV**

**Syllabus for the examination to be held in May 2027, 2028 & 2029**

**Course Code: ECO-401**

**Title – International Political Economy**

**Credits:6**

**Max. Marks: 100**

**Internal Assessment: 30**

**Time: 3 Hours**

**Semester Exam: 70**

**Course outcomes**

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

**UNIT-I: International Political Economy**

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

**UNIT - II: The Theory of Regional Blocks**

Forms of Economic Cooperation; Static and Dynamic effects of a Custom Union: Production effect; Consumption Effects. European Union (EU) and North American Free Trade Agreement (NAFTA). Economic Progress of SAARC/SAFTA, etc. for Asian Economic Cooperation;

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**M.A Economics under Non-CBCS (CDOE)**

**Semester-IV**

**Syllabus for the examination to be held in May 2027, 2028 & 2029**

**Course Code: ECO-401**

**Title – International Political Economy**

**Credits:6**

**Max. Marks: 100**

**Internal Assessment: 30**

**Time: 3 Hours**

**Semester Exam: 70**

Problems and Prospects of forming customs union in the Asian Region: Globalization: meaning; essential conditions for Globalization; implications and impact of Globalization.

**UNIT -III: International Trade and Financial Institutions**

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

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

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

Asian Crisis and the lessons for the developing countries like India; Impact of Trade Reforms Since 1991 on Balance of Payments, Multinational Corporations: Definitions, benefits; domestic



**M.A Economics under Non-CBCS (CDOE)**

**Semester-IV**

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**Title – International Political Economy**

**Credits:6**

**Max. Marks: 100**

**Internal Assessment: 30**

**Time: 3 Hours**

**Semester Exam: 70**

politics and MNCs; The Host Country Dilemma; Regulating MNCs activity in Developing Countries; International Regulation of MNCs.

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

**Note for Paper Setting**

The term end examination shall be of 70 marks. There shall be two types of questions in each unit, two short answer type (each of 250 words) and two medium answer type (each of 600 words). The candidate will have to attempt one short answer type question and one medium answer type question from each unit. Each short answer type question shall carry 4.5 marks and each medium answer type question shall carry 13 marks.

**Basic Reading lists**

1. Bhagwati J. (Ed.) (1981), International Trade : Selected Readings Chambridge University Press
2. Carbough, R.J. (1999), International Economics, International Thompson Publishing, New York.

  
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**M.A Economics under Non-CBCS (CDOE)**

**Semester-IV**

**Syllabus for the examination to be held in May 2027, 2028 & 2029**

**Course Code: ECO-401**

**Title – International Political Economy**

**Credits:6**

**Max. Marks: 100**

**Internal Assessment: 30**

**Time: 3 Hours**

**Semester Exam: 70**

3. Chacholiades, M (1999) International Trade: Theory and Policy, McGraw Hill, Kogakusha, Japan.
4. Dana, M.S. (2000), International Economics: Study, Guide and Work Book (5<sup>th</sup> Edition), Rouledge Publishers, London.
5. Dunn, R.M. and J. H. Mutti (2000), International Economics, Rouledge, London.
6. Kenen, P.B. (1994), The International Economy, Cambridge University Press, London.
7. Kindleberger, C.P. (1973), International Economics, R.D. Irwin, Homewood.
8. King, p.G. (1995), International Economics and International Economic Policy :A Reader, McGraw Hill International Singapore.
9. Krugman, P.R. and M. Obstfeld (1994) International Economics : Theory and Policy, Glenview, Foresman.
10. Oatley, Thomas (2004), International Political Economy Pearson Education (Singapore) Pvt. Ltd. Indian Branch 482 F.I.E. Paparganj, Delhi.



**M.A Economics under Non-CBCS (CDOE)**

**Semester-IV**

**Syllabus for the examination to be held in May 2027, 2028 & 2029**

**Course Code: ECO-404**

**Title – Public Economics**

**Credits:6**

**Max. Marks: 100**

**Internal Assessment: 30**

**Time: 3 Hours**

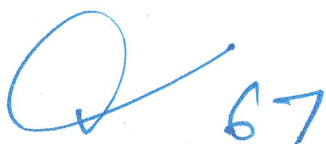
**Semester Exam: 70**

**Course outcomes**

- 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 - 1: 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





**M.A Economics under Non-CBCS (CDOE)**

**Semester-IV**

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**Credits:6**

**Max. Marks: 100**

**Internal Assessment: 30**

**Time: 3 Hours**

**Semester Exam: 70**

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.

**UNIT - III: Fiscal Federalism**

Principal of multiunit 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**

The term end examination shall be of 70 marks. There shall be two types of questions in each

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**M.A Economics under Non-CBCS (CDOE)**

**Semester-IV**

**Syllabus for the examination to be held in May 2027, 2028 & 2029**

**Course Code: ECO-404**

**Title – Public Economics**

**Credits:6**

**Max. Marks: 100**

**Internal Assessment: 30**

**Time: 3 Hours**

**Semester Exam: 70**

unit, two short answer type (each of 250 words) and two medium answer type (each of 600 words). The candidate will have to attempt one short answer type question and one medium answer type question from each unit. Each short answer type question shall carry 4.5 marks and each medium answer type question shall carry 13 marks.

**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, Routledge, 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.



**M.A Economics under Non-CBCS (CDOE)**

**Semester-IV**

**Syllabus for the examination to be held in May 2027, 2028 & 2029**

**Course Code: ECO-404**

**Title – Public Economics**

**Credits:6**

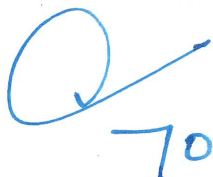
**Max. Marks: 100**

**Internal Assessment: 30**

**Time: 3 Hours**

**Semester Exam: 70**

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.

A handwritten signature in blue ink, consisting of a stylized 'Q' followed by a diagonal line, with the number '70' written below it.

**M.A Economics under Non-CBCS (CDOE)**

**Semester-IV**

**Syllabus for the examination to be held in May 2027, 2028 & 2029**

**Course Code: ECO-422**

**Title – Indian Industry**

**Credits:6**

**Max. Marks: 100**

**Internal Assessment: 30**

**Time: 3 Hours**

**Semester Exam: 70**

**Course outcomes**

- To acquire the ability to analyze the Industrial policy in India & changes in it during Pre and Post Reform period
- To examine the Financial Markets for Industrial Development and Assessing 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 ascertain and analyze the current problems of different industries and growth of the 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, Public Sector Undertakings in India: Role, performance and Disinvestment, Tools to measure the performance of Industries in India. Pattern of industrial Development after 1991, National Manufacturing Policy 2011, Make in India, Success under Make in India, Start Up India, Stand Up India (Case studies/Field survey)



**M.A Economics under Non-CBCS (CDOE)**

**Semester-IV**

**Syllabus for the examination to be held in May 2027, 2028 & 2029**

**Course Code: ECO-422**

**Title – Indian Industry**

**Credits:6**

**Max. Marks: 100**

**Internal Assessment: 30**

**Time: 3 Hours**

**Semester Exam: 70**

**Unit-2 Industrial Finance**

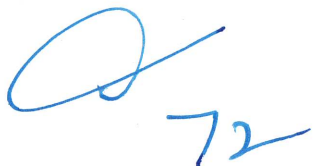
The Need for finance, types of finance, sources of finance, choice of funding. Financial Market: Money & Capital markets in India: Common Money market instruments, Structure of Capital Market: Primary versus Secondary market, financial Instruments in Capital Market. Difference between Money Market and 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**

Employment dimensions of Indian Industry, Social Security Measures in India (organized and unorganized sectors) and its critical review. Industrial legislations, Labour reforms in India: New Labour Codes 2020 on Wages, on Social Security, Occupational Safety, Health and Working Conditions, The Industrial Relations Code. Ease of Doing Business Report. National policy of 2015 and the recent initiatives for skill development & entrepreneurship.

**Unit-4: Current Problems of selected industries**

Iron Steel Industry, Automobile industry, Pharmaceutical industry in India, Industrial sickness, Causes & consequences, Government Policy of Industrial sickness in India, Recent Government

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**M.A Economics under Non-CBCS (CDOE)**

**Semester-IV**

**Syllabus for the examination to be held in May 2027, 2028 & 2029**

**Course Code: ECO-422**

**Title – Indian Industry**

**Credits:6**

**Max. Marks: 100**

**Internal Assessment: 30**

**Time: 3 Hours**

**Semester Exam: 70**

Initiatives for promotion of MSME sector, Role & Performance and Problems of Small-scale industry in India, Industrial Policy (after 2019) of Jammu &Kashmir. Emerging Areas of Industrial Growth in J&K after 2019.

**Note for Paper Setting**

The term end examination shall be of 70 marks. There shall be two types of questions in each unit, two short answer type (each of 250 words) and two medium answer type (each of 600 words). The candidate will have to attempt one short answer type question and one medium answer type question from each unit. Each short answer type question shall carry 4.5 marks and each medium answer type question shall carry 13 marks.

**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.

  
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**M.A Economics under Non-CBCS (CDOE)**

**Semester-IV**

**Syllabus for the examination to be held in May 2027, 2028 & 2029**

**Course Code: ECO-422**

**Title – Indian Industry**

**Credits:6**

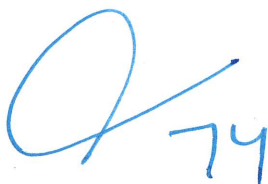
**Max. Marks: 100**

**Internal Assessment: 30**

**Time: 3 Hours**

**Semester Exam: 70**

4. Desai, B. (1999), Industrial Economy in India (3rd Edition) Himalaya Publishing House, Mumbai.
- S. Kuchhal, S.C. (1980), Industrial Economy of India (5' Edition) Chaitanya Publishing House, Allahabad.
- 6.A.N. Sadhu& A Singh, (1988), Industrial Economics, Himalaya Publishing House, Bombay.
- 7.S.S.M. Desai and NirmalBhalerao (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, IndianEconomy, HimalayaPublishing House, Mumbai. (Various Editions).
11. Uma Kapilla, Indian Economy.
12. MatrianNuissian, Industrial Economics.,
13. IndianIndustrial Survey 2001-2024.
- 14.P.G. Gadgil&Gadgil, Industrial Economics of India.
15. Planning Commission Government of India, RecentPolicy Papers.

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**M.A Economics under Non-CBCS (CDOE)**

**Semester-IV**

**Syllabus for the examination to be held in May 2027, 2028 & 2029**

**Course Code: ECO-422**

**Title – Indian Industry**

**Credits:6**


**Max. Marks: 100**

**Internal Assessment: 30**

**Time: 3 Hours**

**Semester Exam: 70**

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.

  
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**M.A Economics under Non-CBCS (CDOE)**

**Semester-IV**

**Syllabus for the examination to be held in May 2027, 2028 & 2029**

**Course Code: ECO-423**

**Title – Indian Agriculture**

**Credits:6**

**Max. Marks: 100**

**Internal Assessment: 30**

**Time: 3 Hours**


**Semester Exam: 70**

**Course outcomes**

- To be 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 study land utilization pattern and critically examine 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.
- To generate awareness and critically analyse 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 -



**M.A Economics under Non-CBCS (CDOE)**

**Semester-IV**

**Syllabus for the examination to be held in May 2027, 2028 & 2029**

**Course Code: ECO-423**

**Title – Indian Agriculture**

**Credits:6**

**Max. Marks: 100**

**Internal Assessment: 30**


**Time: 3 Hours**

**Semester Exam: 70**

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, interpersonal 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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**M.A Economics under Non-CBCS (CDOE)**

**Semester-IV**

**Syllabus for the examination to be held in May 2027, 2028 & 2029**

**Course Code: ECO-423**

**Title – Indian Agriculture**

**Credits:6**

**Max. Marks: 100**

**Internal Assessment: 30**

**Time: 3 Hours**

**Semester Exam: 70**

**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.

  
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**M.A Economics under Non-CBCS (CDOE)**

**Semester-IV**

**Syllabus for the examination to be held in May 2027, 2028 & 2029**

**Course Code: ECO-423**

**Title – Indian Agriculture**

**Credits:6**

**Max. Marks: 100**

**Internal Assessment: 30**

**Time: 3 Hours**

**Semester Exam: 70**

**Note for Paper Setting**

The term end examination shall be of 70 marks. There shall be two types of questions in each unit, two short answer type (each of 250 words) and two medium answer type (each of 600 words). The candidate will have to attempt one short answer type question and one medium answer type question from each unit. Each short answer type question shall carry 4.5 marks and each medium answer type question shall carry 13 marks.

**Basic Reading list**

1. Bhaduri, A. (1984), The Economic Structure of Backward Agriculture, Macmillan, Delhi.
2. Bilgrami, S.AR. (1996), Agricultural Economics, Himalaya Publishing House, Delhi.
3. Dantwala, M.L. et. al. (1991), Indian Agricultural Development Science Independence, Oxford & IBH, New Delhi.
4. Government of India (1976), Report of the National Commission on Agriculture, New Delhi.
5. Government of India, Economic Survey (Annual), New Delhi.



**M.A Economics under Non-CBCS (CDOE)**

**Semester-IV**

**Syllabus for the examination to be held in May 2027, 2028 & 2029**

**Course Code: ECO-423**

**Title – Indian Agriculture**

**Credits:6**

**Max. Marks: 100**

**Internal Assessment: 30**

**Time: 3 Hours**

**Semester Exam: 70**

6. Gulati, A., and T. Kelly (1999) Trade Liberalization and Indian Agriculture, Oxford, University Press, new Delhi.
7. Joshi, P.C. (1975), Land Reforms in India: Trends and prospects, Allied Publishers, Bombay.
8. Kahlon, A.S.f and Tyagi D.S. (1983). Agriculture Price Policy in India, Allied Publishers, New Delhi.
9. Rao, C.H. Flanumantha (1 975'), Agriculture Growth. Rural Poverty and Environmental Degradation in India Oxford University Press, New Delhi.
10. Reserve Bank of India, Report on Currency and Finance (Annual), Mumbai.
11. Rudra, A. (1982), Indian Agriculture Economic: Myths and reality, Allied Publishers, New Delhi.
12. Saini, G.R. (1979), Farm Size, Resource Use Efficiency arid Income Distribution, Allied Publishers, New Delhi.

**Additional reading list:**

**Unit-\_I**

1. Bardhan, P. (1984), Land, Labour and Rural Poverty, Oxford University Press, New Delhi.



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**M.A Economics under Non-CBCS (CDOE)**

**Semester-IV**

**Syllabus for the examination to be held in May 2027, 2028 & 2029**

**Course Code: ECO-423**

**Title – Indian Agriculture**

**Credits:6**

**Max. Marks: 100**

**Internal Assessment: 30**

**Time: 3 Hours**

**Semester Exam: 70**

2. Chadha, G.K. and A.N. Sharma (1997). Growth Employment and Poverty: Change and Continuity in Rural India, Vikas Publishing, New Delhi.
3. Chakarvarty, S. (1987), Development Planning: The Indian Experience, Oxford University Press, New Delhi,
4. Chaudhary, P. (1972), Readings in Indian Agricultural Development, George Allen & Unwin, London.
5. Chelliah, Raja J. and R. Sudarshan (1999) Income, Poverty and Beyond: Human Development in India, Social Science, Press, New Delhi.
6. Dantwala. M.L . (I 996). Dilemmas of Growth : The Indian Experience, Sage Publications, New Delhi
7. Ghatak, S. and K. Ingerscent (1 984), Agriculture and Economic Development Select books, New Delhi.
8. Government of India, Five Year Plans, New Delhi.
9. Meier G.M. (1995), Leading Issues in Economic Development Oxford University Press. New Delhi.
10. Raj, K.N. et. a. (1988), Essays in the Commercialization of Indian Agriculture, Oxford University Press, New Delhi.



**M.A Economics under Non-CBCS (CDOE)**

**Semester-IV**

**Syllabus for the examination to be held in May 2027, 2028 & 2029**

**Course Code: ECO-423**

**Title – Indian Agriculture**

**Credits:6**

**Max. Marks: 100**

**Internal Assessment: 30**

**Time: 3 Hours**

**Semester Exam: 70**

11. Thamarajakshi, R. (1994). Intersectoral Relationship in a Developing Economy, Academic Foundation, Delhi.

**Unit -2**

1. Bhardwaj, K. (1974), Production Conditions in Indian Agriculture. Cambridge, University Press. Cambridge.
2. Brahmananda, P.R. and V.R. Panchumukhi (Eds.) (1987), The Development Process of Indian Economy, Himalaya Publishing house, Bombay.
3. Chakravarty, S. (1987), Development Planning: The Indian Experience. Oxford University Press, New Delhi.
4. Dantwala, M.L. (1996), Dilemmas of Growth : The Indian Experience, Sage Publications, New Delhi,
5. Desai. U. and A. Vaidyanathan (Eds.) (1995), Strategic Issues in Future Growth of Fertilizer Use in India. Macmillan, New Delhi



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**M.A Economics under Non-CBCS (CDOE)**

**Semester-IV**

**Syllabus for the examination to be held in May 2027, 2028 & 2029**

**Course Code: ECO-423**

**Title – Indian Agriculture**

**Credits:6**

**Max. Marks: 100**

**Internal Assessment: 30**

**Time: 3 Hours**

**Semester Exam: 70**

6. Ghatak, S. and K. Ingerscent (1984). Agriculture and Economic Development, Select books, New Delhi. Raj, K.N. at (1988), Essays in The Commercialization of Indian Agriculture. Oxford University Press, New Delhi.
7. Brahmananda. P.R. and V.R Panchumukhi (Eds.) ( 1987). The Development Process of the Indian Economy, Himalaya Publishing House, Bombay.
8. Chaudhary, P. (1972), Readings in Indian Agricultural Development George Allen & Unwin, London.
9. Dantwala, Mi. (1996), Dilemmas of Growth The Indian Experience, Sage Publishing, New Delhi.
10. Desai. G and A. Vaidyanathan (Eds.) 1995), Strategic Issues in Future Growth of Fertiliser Use in India, Macmillan, New Delhi
11. Ghatak, S. and K Ingerscent (1984), Agriculture and Economic Development, Select books, New Delhi.
12. Bhalla G.S. (1994), Economic Liberalisation and Indian Agriculture, Institute for Studies in Industrial Development, New Delhi.
13. Brahmananda, P.R. and MR. Panchumukhi (Eds.) (1987), The Development Process of the Indian Economy, Himalaya Publishing House, Bombay.



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**M.A Economics under Non-CBCS (CDOE)**

**Semester-IV**

**Syllabus for the examination to be held in May 2027, 2028 & 2029**

**Course Code: ECO-423**

**Title – Indian Agriculture**

**Credits:6**

**Max. Marks: 100**

**Internal Assessment: 30**

**Time: 3 Hours**

**Semester Exam: 70**

14. Chadha, G.K. and A.N. Sharma(1997), Growth, Employment and Poverty: Change and Continuity in Rural India, Vikas Publishing New Delhi.
15. Chaudhary, P. (1972), Readings in Indian Agricultural Development, George Allen & Unwin, London.
16. Chelliah, Raja J. and R Sudamhan (1999) Income Poverty and Beyond : Human Development in India, Social Science Press New Delhi
17. Bhalla, G.S. (1994), Economic Liberalization and India Agriculture, Institute for Studies in Industrial Development, New Delhi.
18. Chelliah, Raja J. and R Sudarshan (1999) Income Poverty and Beyond : Human Development in India, Social Science Press, New Delhi.
19. Dantwala, M.L. (1996), Dilemmas of Growth The Indian Experience, Sage Publishing, New Delhi.
20. Desai, G. and A. Vaidyanathan (Eds.) 1995), Strategic Issues in Future Growth of Fertiliser Use in India, Macmillan, New Delhi.
21. Soni, R.N, (1995), Leading Issues in Agricultural Economics, Arihant Press, Jalandhar.
22. Vidyanathan, A. (1995), The Indian Economy: Crisis, Response and Prospects, Orient Longmans, New Delhi.



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**M.A Economics under Non-CBCS (CDOE)**

**Semester-IV**

**Syllabus for the examination to be held in May 2027, 2028 & 2029**

**Course Code: ECO-425**

**Title – Research Methodology**

**Credits:4**

**Max. Marks: 100**

**Internal Assessment: 30**

**Time: 3 Hours**

**Semester Exam: 70**

**Course outcomes**

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

**UNIT-I: Fundamentals of Research and Research Problem**

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



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**M.A Economics under Non-CBCS (CDOE)**

**Semester-IV**

**Syllabus for the examination to be held in May 2027, 2028 & 2029**

**Course Code: ECO-425**

**Title – Research Methodology**

**Credits:4**

**Max. Marks: 100**

**Internal Assessment: 30**

**Time: 3 Hours**

**Semester Exam: 70**

**UNIT-II: Literature Review, Research Design and Data Collection**

Meaning and importance, Sources of literature, Selection of Research Problem, Formulation of Research Problem. Research Design: Meaning, Need and Features of good design. Types of Research Design: Sampling Design- steps, characteristics of a good sample design and different types of a sample design.

**Unit II: Data Collection, Hypothesis testing and Report Writing**

Data Collection: Methods of Data Collection - Observation, Interview. Questionnaire, Schedule, Development of working hypothesis; flow diagram for hypothesis testing.

Formulation of Statistical hypotheses - Null and Alternative, interpretation and generalization, systematization of findings, writing of report

  
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**Unit IV. Data Base of Indian Economy and Softwares**

Important Data Sources- National and International; Familiarity with different data bases such as Capital Online, RBI-Hand Book of Statistics on Indian Economy, National Sample Survey Organisation reports, Annual Survey of Industries, Census data - National Family and Health Survey (NIS) reports. indiastat.com, NSSO. RBI Bulletin, Economic Survey, etc. Introduction to Statistical softwares like SPSS/E-Views and working on Excel.

**Note for Paper Setting**

The term end examination shall be of 70 marks. There shall be two types of questions in each unit, two short answer type (each of 250 words) and two medium answer type (each of 600 words). The candidate will have to attempt one short answer type question and one medium answer type question from each unit. Each short answer type question shall carry 4.5 marks and each medium answer type question shall carry 13 marks.

  
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**Internal Assessment: 30**

**Time: 3 Hours**

**Semester Exam: 70**

**Basic Reading List:**

1. Don E. Ethridge, "Research Methodology in Applied Economics: Organizing, Planning and Conducting" Second Edition, Blackwell Publishing 2004.
2. Johnson, Glenn Loroy Research methodology for economists: philosophy. and practice. Macmillan: 1986. xx, 252 p.
3. Greenlaw. S.. Doing Economics: A Guide to Understanding and Carrying Out Economics Research, Houghton Mifflin references and bibliography.
4. Kagel, Jil and Roth, AE (1995) The Handbook of Experimental Economics, Princeton University Press. Princeton.
5. Goon, AM. MK Gupta and B. Das Gupta (1983), Fundamental of Statistical Vol. I, The World Press. Calcutta.
6. Hoel. P.er (1954) Introduction to Mathematical Statistics. Wiley and Sons.
7. Hogg R.V. and A.T. Craig (1970), Introduction to Mathematical Statistics. Macmillian Publishing Co., New York.



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8. Nagar, A.L. and R.K. Das (1993). Basic Statistics. Oxford University Press, New Delhi.
9. Rao. C.R. (1965), Linear Statistical Inference and Application Wiley and Sons.
10. Sukhatme, P. V. and B.V. Sukhatme (1970). Sampling Theory of Survey with Applications Iowa State University Press, Ames.
11. Walpole, R. Statistics (1980), Collier Macmillan.
12. Kothari C.R, Research Methodology , Vishwa Prakashan, N.Delhi.
13. Wilkinson & Bhandarkar, Methodology & Techniques of Social Research, Himalaya Publishing House.
14. Research Methodology, Tripathi P.C, Sultan Chand & Co..N.Delhi.
15. Karlinger, Foundations of Behaviour Research, Surjeet and Company, N.Delhi.
16. Koutsoyiannis, A. (1977). Theory of Econometrics (2nd Edn.). The Macmillan Press Ltd. London.
17. Maddala, G.S. (1997). Econometrics, McGraw Hill; New York.

  
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