M.A. Economics
(Semester- I to IV)
(w.e.f. 2026-2027)

Scheme of Programme

Semester-I

Course Code	Course Title	Course ID	L	T	P	L		T	P	Total Credits	MARKS				
			(Hrs)				Credits				TI	TE	PI	PE	Total
Core Course(s)															
CC-A01	Micro Economics -I		3	1	0	3	0	1	0	4	30	70	0	0	100
CC-A02	Macro Economics -I		3	1	0	3	0	1	0	4	30	70	0	0	100
CC-A03	Mathematics for Economics		3	1	0	3	0	1	0	4	30	70	0	0	100
Discipline Specific Elective Courses															
DSE-01 One from the pool	1. Indian Economy -I 2. Money & Banking		2	1	0	2		1	0	3	25	50	0	0	75
Multidisciplinary Course(s)															
MDC-01 One from Pool	One from pool		2	1	0	2	0	1	0	3	25	50			75
Ability Enhancement Course(s)															
AEC-01 One from Pool	One from pool		2	0	0	2	0	0	0	2	15	35			50
Value-added Course(s)															
VAC-01 One from Pool	One from pool		2	0	0	2				2	15	35			50
Total Credits										**22**					**550**

Semester-II

Course Code	Course Title	Course ID	L	T	P	L	T	P	Total Credits	MARKS				
			(Hrs)			Crdits				TI	TE	PI	PE	Total
Core Course(s)														
CC-A04	Micro Economics -II		3	1	0	3	1	0	4	30	70			100
CC-A05	Macro Economics - II		3	1	0	3	1	0	4	30	70			100
CC-A06	Statistical Methods		3	1	0	3	1	0	4	30	70			100
Discipline Specific Elective Courses														
DSE-02	1.Indian Economy -II 2. Environmental Economics		2	1	0	2	1	0	3	25	50			75
Multidisciplinary Course(s)														
MDC-02 One from pool	One from pool		2	1	0	2	1	0	3	25	50			75
Ability Enhancement Course(s)														
AEC-02 One from pool	One from pool		2	0	0	2	0	0	2	15	35			50
Skill Enhancement Course(s)														
SEC-01 One from pool	One from pool		1	0	2	1	0	1	2	10	25	5	10	50
Total Credits									**22**					**550**

Semester-III

Course Code	Course Title	Course ID	L	T	P	L	T	P	Total Credits	MARKS				
			(Hrs)			Credits				TI	TE	PI	PE	Total
Core Course(s)														
CC-A07	Economics of Growth and Development		3	1	0	3	1	0	4	30	70			100
CC-A08	International Trade and Finance -I		3	1	0	3	1	0	4	30	70			100
CC-A09	Econometrics		3	1	0	3	1	0	4	30	70			100
Discipline-Specific Elective Courses														
DSE-03 One from the pool	1.Agricultural Economics -I		2	1	0	2	1	0	3	25	50			75
	2.Demography-I													
Multidisciplinary Course(s)														
MDC-03	One from pool		2	1	0	2	1	0	3	25	50			75
Skill Enhancement Course(s)														
SEC-02	One from pool		1	0	2	1	0	1	2	10	25	05	10	50
Value-added Course(s)														
VAC-02	One from pool		2			2			2	15	35			50
Seminar														
Seminar									2			50		50
Internship/Field Activity														
Internship									4			100		100
Total Credits									**28**					**700**

#Four credits of internship earned by a student during summer internship after 2nd semester will be counted in 3rd semester

Semester IV

Course Code	Course Title	Course ID	L	T	P	L	T	P	Total Credits	MARKS				
			(Hrs)			Credits				TI	TE	PI	PE	Total
Core Course(s)														
CC-A10	Public Economics		3	1	0	3	1	0	4	30	70			100
CC-A11	International Trade and Finance - II		3	1	0	3	1	0	4	30	70			100
Discipline Specific Elective Courses														
DSE-04 One from pool	1. Agricultural Economics-II		2	1	0	2	1	0	3	25	50			75
	2. Demography-II													
Multidisciplinary Course(s)														
MDC-04	One from pool		2	1	0	2	1	0	3	25	50			75
Ability Enhancement Course(s)														
AEC-03	One from pool		2	0	0	2	0	0	2	15	35			50
Community Engagement/ Field Work/Survey/Seminar														
Seminar									6			150		150
Total Credits									**22**					**550**

VALUE ADDED COURSE (VAC), ABILITY ENHANCEMENT COURSE (AEC), MULTIDISCIPLINARY COURSES (MDC) & SKILL ENHANCEMENT COURSE(S)

	VAC	MDC	AEC	SEC
Sem. I	Sustainable Development	Introduction to Economics	Economics of Capital Market in India	NA
Sem. II	NA	Financial Institutions and Markets	Economics of Mutual Funds in India	1. Introduction to Research Methodology 2. Digital Economics
Sem. III	Indian Budgetary System	Drivers of Indian Economy towards Viksit Bhart	NA	Data Analysis
Sem. IV	NA	Indian Economic Policy	Entrepreneurship	NA

Pool of Value Added Courses (VAC)

Sr. No.	Name of Course	Credits T	Credits P	Total Credits	Course ID
			Sem. I		
1.	Sustainable Development	2	0	2	
			Sem. III		
1.	Indian Budgetary System	2	0	2	

Pool of Multidisciplinary Courses (MDC)

Sr. No.	Name of Course	Credits T	Credits P	Total Credits	Course ID
			Sem. I		
1.	Introduction to Economics	3	0	3	
			Sem. II		
1.	Financial Institutions and Markets	3	0	3	
			Sem. III		
1.	Drivers of Indian Economy towards Viksit Bhart	3	0	3	
			Sem. IV		
1.	Indian Economic Policy	3	0	3	

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Pool of Ability Enhancement Courses (AEC)

Sr. No.	Name of Course	Credits T	Credits P	Total Credits	Course ID
		Sem. I			
1.	Economics of Capital Market in India	2	0	2	
		Sem. II			
1.	Economics Mutual Funds in India	2	0	2	
		Sem. IV			
1.	Entrepreneurship	2	0	2	

Pool of Skill Enhancement Course (SEC)

Sr. No.	Name of Course	Credits T	Credits P	Total Credits	Course ID
		Sem. II			
1.	Introduction to Research Methodology	1	1	2	
2.	Digital Economics	1	1	2	
		Sem. III			
1.	Data Analysis	1	1	2	

Syllabus
M.A. Economics 2026-27

SEMESTER- I

	Micro Economics -I

Max. Marks: 100 **Written Exam: 70 (3 Hrs.)**
Credits: 4 **Internal Assessment: 30**

Note For the paper Setter
1. Nine Questions will be set in all and students will be required to attempt 5 questions.
2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks).
3. From the remaining eight questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each).

Course Outcomes
CO1: Understand the various concepts and theories of Microeconomics.
CO2: Develop ability to think critically and evaluate economic problems, with an emphasis on applying knowledge of fundamental principles of production and costs to a grasp of real-world issues.
CO3: Analyse given circumstances on a microeconomic level across a range of marketplaces.
CO4: Use economic analysis to assess problems and policies related to market and economy.

UNIT – I
Theories of Consumer Behaviour -I
Demand Analysis: Law of Demand, demand of an individual and market, change in demand and change in quantity demanded; Demand Function; Elasticity of Demand - Price, Cross and Income Elasticity of Demand, Measurement of Price Elasticity of Demand, determinants of price elasticity of demand; Cardinal Utility Approach – Basic concepts, Law of Diminishing Marginal Utility, Principle of Equi – Marginal Utility, Consumer's Equilibrium; Derivation of demand curve; Critical Evaluation of Cardinal Marginal Utility Analysis; Bandwagon, Snob and Veblen Effect.

UNIT – II
Theories of Consumer Behaviour - II
Ordinal Utility Approach, Indifference curve Analysis, Budget Line, and Consumer's equilibrium; Price, Income and Substitution effects (Hicks Allen & Slutsky method), Price Consumption Curve, Derivation of demand curve, Income Consumption Curve, Engel curve; Comparison of Utility and Indifference Curve analysis; Criticism of Indifference Curve Analysis; Revealed Preference Theory.

UNIT -III
Theory of Production
Laws of Production- Short run and Long run; Internal and External economies and diseconomies; Isoquant Curve Analysis- Isoquant curve, Isoquant map, Properties of Isoquant curve, Ridge Lines, Iso – cost line, Least Cost Combination and Producer's Equilibrium; Technical Progress and Production function- Hick's Classification, Properties of Cobb- Douglas and CES production function.

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UNIT -IV

Theory of Cost and Revenue

Concept of cost, Traditional and Modern theories of Cost.

Basic concepts of revenue, Market Structure and features of various markets, Revenue curves under different market situation, Price and output determination in Prefect competition- Price determination, Time element and price determination, Equilibrium of Firm and Industry, Supply curve of a firm and industry.

Suggested Readings

- Akerlof, G. A. (1970). The market for "lemons": Quality uncertainty and the market mechanism. *Quarterly Journal of Economics, 84*(3), 488–500. https://doi.org/10.2307/1879431
- Henderson, J. M., & Quandt, R. E. (1980). *Microeconomic theory: A mathematical approach*. McGraw-Hill.
- Koutsoyiannis, A. (1979). *Modern microeconomics* (2nd ed.). Macmillan Press.
- Lipsey, R. G., & Chrystal, K. A. (2014). *Economics*. Oxford University Press.
- Mankiw, N. G. (2006). *Principles of microeconomics*. Cengage Learning.
- Mansfield, E. (1979). *Applied microeconomics*. W. W. Norton & Company.
- Mas-Colell, A., Whinston, M. D., & Green, J. R. (2012). *Microeconomic theory*. Oxford University Press.
- Salvatore, D. (2006). *Microeconomics: Theory and applications*. Oxford University Press.
- Varian, H. R. (2003). *Intermediate microeconomics*. East-West Press.

	Macro Economics -I

Max. Marks: 100 **Written Exam: 70 (3 Hrs.)**
Credits: 4 **Internal Assessment: 30**

Note For the paper Setter

1. Nine Questions will be set in all and students will be required to attempt 5 questions.
2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks).
3. From the remaining eight questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each).

Course Outcomes

CO1: Understand both the conventional and Keynesian theories of employment and output.
CO2: Understand the importance of consumption and investment theories.
CO3: Comprehend the IS-LM framework and its many features and the behaviour of macroeconomic variables.
CO4: Analyze and compare major consumption and investment theories.
CO5: Evaluate the role of multiplier, super multiplier, and accelerator mechanisms in determining income, output, and business cycles.

UNIT-I

Determination of Output and Employment

Classical Approach – Output and Employment in Classical Theory; Quantity Theory of Money and the Price Level; Classical Model without saving and investment; Classical Model with saving and investment.
Keynesian Approach-Two Sector Model, Three Sector Model and Four Sector Model.

UNIT-II

Determination of Output and Employment

Extended Model (Hicks-Henson Synthesis): Fixed Price Level – Goods Market and Money Market; Equilibrium in Goods Market and Money Market; Changes in Aggregate Demand; Govt. spending, Taxation and Aggregate Demand; IS-LM Elasticities and Monetary and Fiscal Policies.

UNIT-III

The Extended Model

Variable Price Level – Derivation of Aggregate Demand Curve and Determination of Equilibrium Price and Output Levels; Wage-Price Flexibility and Full Employment Equilibrium; Monetary – Fiscal Policies and Full-Employment Equilibrium.

UNIT-IV

Behavioural Foundation

Theories of Consumption –Absolute Income Hypothesis, Relative Income Hypothesis, Permanent Income Hypothesis, Life Cycle Theory of Consumption; Theories of Investment – Present Value of Criterion for Investment, Marginal Efficiency of Capital and Investment; Multiplier, Super Multiplier, Accelerator Theory.

Suggested Readings

- Ackley, G. (1978). *Macroeconomics: Theory and policy*. Macmillan.
- Backhouse, R., & Salansi, A. (Eds.). (2000). *Macroeconomics and the real world* (2 vols.). Oxford University Press.
- Branson, W. A. (1989). *Macroeconomic theory and policy* (3rd ed.). Harper and Row.
- Dornbusch, R., & Stanley, F. (1999). *Macroeconomics* (7th ed.). Irwin McGraw-Hill.
- Heijdra, B. J., & Fredericck, V. P. (2001). *Foundations of modern macroeconomics*. Oxford University Press.
- Jha, R. (1991). *Contemporary macroeconomic theory and policy*. Wiley Eastern Ltd.
- Mankiw, G. N. (2003). *Macroeconomics*. Worth Publishers.
- Mankiw, N. G., & Romer, D. (Eds.). (1991). *New Keynesian economics* (2 vols.). MIT Press.
- Romer, D. L. (1996). *Advanced macroeconomics*. McGraw-Hill.
- Shapiro, E. (1996). *Macroeconomic analysis*. Galgotia Publications.

	Mathematics For Economists

Max. Marks: 100 **Written Exam: 70 (3 Hrs.)**
Credits: 4 **Internal Assessment: 30**

Note For the paper Setter
1. Nine Questions will be set in all and students will be required to attempt 5 questions.
2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks).
3. From the remaining eight questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each).

Course Outcomes
CO1: Understand the use of matrix algebra in solving system of simultaneous equations dealing with various economic aspects and problems.
CO2: Acquire basic and applied knowledge of differential and integral calculus and become able to analyze optimizing behavior of consumers and producers.
CO3: Learn the techniques of differential as well as difference equations and thus, attain the ability to understand the processes of continuous as well as lagged adjustments in various models of market mechanism, growth, business cycles, and national income.

UNIT-I

Matrices and Determinants
Types of Matrices, Simple Operation on Matrices (Addition, Subtraction and Multiplication), Determinants (Two and Three Order), Properties of Determinants, Inverse of a Matrix, Rank of a Matrix; Solution of Simultaneous Linear Equation and Economic Applications of Matrices (Cramer's Rule and Matrix Inverse Method).

UNIT -II

Simple Derivatives
Rule of Differentiation (Power Function Rule, Constant Rule, Multiplicative Constant Rule, Sum (or Difference) Rule, Product Rule, Quotient Rule and Chain Rule); Derivative of Logarithmic and Exponential Function. Higher Order Derivative. Economic Application of Simple Derivatives (Price and Income Elasticity of Demand, Average and Marginal Cost, APC and MPC); Partial Derivatives- First Order and Higher Order Partial Derivatives.

UNIT-III

Integration
Basic Rules of Integration (Power and Exponential Function, Extension of Power and Exponential Function), Integration by Division. Method of Integration (Integration by Substitution and Integration by Parts); Definite Integral- Definition and Notation. Economic Application of Integration (Revenue Function, Cost Function, Profit Function and Consumption Function).

UNIT-IV

Difference Equations
Linear Differential Equation of First Order and Second Order with Constant Coefficients; Rule to find the Particular Integral; Difference Equation- Homogenous Linear Difference Equation with Constant Coefficients (First Order and Second Order).

Suggested Readings

- Aggarwal, D. R. (2009). *Quantitative methods*. Vrinda Publications.
- Chiang, A. C. (1984). *Fundamental methods of mathematical economics* (3rd ed.). McGraw-Hill.
- Joshi, R. C. (2010). *Basic mathematics for economists*. New Academic Publishing.
- Leontief, W. (1936). Quantitative input-output relations in the economic systems of the United States. *Review of Economics and Statistics, 18*, 105–125.
- Mehta, B. C., & Madnani, G. M. K. (2018). *Mathematics for economists*. Sultan Chand & Sons.
- Miller, R. E., & Blair, P. D. (1985). *Input-output analysis: Foundations and extensions*. Prentice-Hall.
- Vohra, N. D. (2017). *Quantitative techniques in management* (5th ed.). McGraw-Hill Education.

	Indian Economy-I

Max. Marks: 75 **Written Exam: 50 (2 Hrs.)**
Credits: 3 **Internal Assessment: 25**

Note for the paper Setter
1. Seven Questions will be set in all and students will be required to attempt 4 questions.
2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks).
3. For the remaining six questions, students will attempt 1 out of 2 questions from each of the three units (12 marks each).

Course Outcomes
CO1: Understand the basic features of Indian economy, sources of revenue, how the government manages the fiscal imbalance in the economy.
CO2: Understand agriculture, industry and service sectors in India.
CO3: Utilize the detailed skills and techniques to address the problems of Indian economy like poverty, inequality, unemployment.

UNIT-I

Introduction to Indian Economy
Features of Indian Economy- Nature and characteristics, Economic Planning in India-Features, Objectives and Assessment of Indian Planning (Plan wise details to be excluded); Planning commission to NITI Aayog; Trends of National income of India since 1951.

UNIT -II

Problems in Indian Economy
Unemployment, Inequality, Poverty and Parallel economy in India in current Scenario and measures taken by Government to reduce these Problems; Labour Force and Occupational Structure.

UNIT-III

Agriculture
Importance/ Role of Agriculture- Nature of India's agriculture, Causes of backwardness and low productivity; Land Reforms-Need, Implementation and Critical Evaluation; Critical evaluation of Green revolution in India.

Suggested Readings

- Dutt, R., & Sundharam, K. P. M. (n.d.). *Indian economy* (65th ed.). S. Chand.
- Kapila, U. (2018). *Indian economy since independence* (28th ed.). Academic Foundation.
- Mishra, S. K., & Puri, V. K. (2015). *Indian economy*. Himalaya Publishing House.
- Rangarajan, C. (2004). *Select essays on Indian economy* (Vols. 1–2). Academic Foundation.

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	Money and Banking

Max. Marks: 75 **Written Exam: 50 (2 Hrs.)**
Credits: 3 **Internal Assessment: 25**

Note for the paper Setter
1. Seven Questions will be set in all and students will be required to attempt 4 questions.
2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks).
3. For the remaining six questions, students will attempt 1 out of 2 questions from each of the three units (12 marks each).

Course Outcomes:
CO1: Understand the basic features, functions and importance of money.
CO2: Understand various theories of Money supply and money demand.
CO3: Understand the functioning of commercial banks and Central bank.

UNIT I

Money and Its Functions Evolution of money, Money-Meaning and functions; Classification of money- Money and Near Money; Qualities of good money material; Role of money in a developing and mixed economy; Gresham's Law.

UNIT II

Commercial Banks Commercial Banks- Meaning and functions; Types of Banks; Role of Commercial Banks in a developing economy, Structure of Indian Commercial Banking; Banking Sector Reforms in India since 1991; Central Bank- Meaning and Functions; Objectives of Credit Control- Qualitative and quantitative Methods of Credit Control; Role of Central Bank in Developing Economy.

UNIT III

Monetary and fiscal policy- Meaning, Features; Role of Monetary and Fiscal policy in developing countries; Monetary Policy Effects on Demand, Fiscal Policy Effects on Demand, Fiscal Policy and Investment, Interaction of Monetary and Fiscal Policies.

Suggested Readings

- Baye, M. R., & Jansen, D. W. (1996). *Money, banking and financial markets* (Indian ed.). AITBS.
- Gupta, S. B. (2008). *Monetary economics*. S. Chand Publications.
- Hajela, T. N. (2009). *Money and banking*. Ane Books Pvt. Ltd.
- Paul, R. R. (2010). *Money, banking & international trade*. Kalyani Publications.
- Sekhar, K. C. (2012). *Banking: Theory and practice*. Vikas Publishing House.
- Seth, M. L. (2008). *Monetary economics*. Vikas Publications.
- Sundharam, K. P. M. (2011). *Banking: Theory, law and practice* (Recent ed.). Sultan Chand & Sons.

SEMESTER- II

	Micro Economics- II

Max. Marks: 100 — **Written Exam: 70 (3 Hours)**
Credits: 4 — **Internal Assessment: 30**

Note For the paper Setter
1. Nine Questions will be set in all and students will be required to attempt 5 questions.
2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks).
3. From the remaining eight questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each).

Course Outcomes
CO1: Analyze price and output determination under different market structures
CO2: Evaluate market power and strategic behaviour of firms in imperfectly competitive markets.
CO3: Examine wage determination and factor pricing under different market structures.
CO4: Apply general equilibrium analysis and welfare concepts to assess efficiency, market failures, and policy implications.
CO5: Apply theoretical concepts of market structures, factor pricing, and welfare economics to analyze real-world economic situations and policy issues.
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UNIT – I

Monopoly and Monopolistic Competition
Sources of Monopoly power, Measurement of degree of Monopoly power, Price and output determination, Price discrimination, Bilateral Monopoly.
Monopolistic competition: Equilibrium of the firm, Group Equilibrium, product differentiation, Non – Price Competition and selling cost.

UNIT -II

Oligopoly
Price and output determination, Non-Collusive: Cournot's model, Bertrand Model, Kinked demand curve and price rigidity
Collusive: Price leadership, Cartels.

UNIT – III

Theory of factor pricing (mainly with reference to labour)
A firm's and Market demand for labour with one and severable variable inputs and its determinants, Supply of labour to a firm, Firm equilibrium and wage rate determination under i) competitive conditions in both product market and factor market, ii) Perfect Competition in factor market and imperfect competition in product market iii) Imperfect Competition (monopsony) in factor market & Perfect Competition in product market, iv) Monopoly in product market and monopsony in the labour market and concept of exploitation of labour.

UNIT – IV

General Equilibrium Approach

The Walrasian approach to general equilibrium; Concept of Social Welfare, some early criteria, Pareto Optimality and efficiency conditions; Market Structure and welfare maximization; Market failure: Externalities, Public goods and asymmetric information, ways of correcting it, The theory of second best.

Suggested Readings

- Ahuja, H.L(2012), *Ucchatar Arthik Siddhant*, S.Chand & Company, New Delhi.
- Dwivedi, D.N(2011), *Microeconomics – Theory & Applications*, Pearson.
- Koutsoyiannis ,A.(1979), *Modern Microeconomics*,(2nd Edition), Macmillan Press, London.
- Mankiw, N.G. (2012), *Principles of Microeconomics,* (6th Edition), South-Western Cengage Learning.
- Salvatore D. (2006), *Microeconomics-Theory and Applications,* Oxford University Press.
- Varian,H. (2003),Intermediate Microeconomics, East-West Press.
- Browing Edger K., Browing Jacquelene, M.: *Microeconomic Theory and Applications*, 2nd Ed. 1986, Kalyani

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	Macro Economics- II

Max. Marks: 100 **Written Exam: 70 (3 Hours)**
Credits: 4 **Internal Assessment: 30**

Note For the paper Setter
1. Nine Questions will be set in all and students will be required to attempt 5 questions.
2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks).
3. From the remaining eight questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each)

Course Outcomes
CO1: Explain the theories of demand for money, including classical, Keynesian, and modern approaches.
CO2: Analyze the determinants of money supply and evaluate theories of interest rate determination.
CO3: Evaluate the causes and effects of inflation and examine the relationship between inflation and unemployment using Phillips Curve and expectations theories.
CO4: Examine trade cycle models, growth theories, and macroeconomic adjustments in an open economy.
CO5: Apply monetary and macroeconomic concepts to interpret real-world economic issues such as inflation, interest rates, and economic fluctuations.

UNIT I

The Demand for Money
Classical Approach to Demand for Money: Quantity Theory Approach- Fisher's equation; Cambridge Quantity theory; Keynes Liquidity Approach, Aggregate Demand for Money: Friedman, Patinkun, Baumol and Tobin.

UNIT II

The supply for money
Measurement and Determinants of money supply, High-powered money, Money Multiplier, Behavioral model of money, Instruments of money control.
Determination theories of interest rates; Classical, loanable fund theory and Keynesian theory. Theories of term structure of interest rate

UNIT III

Inflation
Definition of Inflation; Economic effects of Inflation – The effect of Inflation on the distribution of Income and Wealth, Output, Employment and the Growth Rate; Demand Side and Supply Side theories of inflation.
Inflation and unemployment: The Phillips Curve -The Inflationary Pressure Curve. The Phillips Curve - Trade Off and Non-Trade-Off, Adaptive Expectation Theory and Rational Expectation Theory, Keynesianism Vs Monetarism

UNIT IV

Trade Cycles

Models of Samuelson, Hicks and Kaldor, Economic Growth: Harrod- Domar model, Neo-Classical Model (with money & without money). International Adjustment: The Determination of National Income in Open Economy; The International Transmission of Disturbance: Transmission under Fixed Exchange Rate; Transmission under Floating Exchange Rate (Mundell- Fleming Model).

Suggested Readings

- Shapiro, E. (1996), *Macroeconomic Analysis*, Galgotia Publications, New Delhi.
- Dornbusch, R. and F. Stanley (1999), *Macroeconomics*, Irwrin McGraw Hill, Inc. New York, 7th Edition
- Lipsey R.G. and K.A. Chrystal(2007) —Economics, Oxford University Press
- Ackley, G. (1978), *Macroeconomics: Theory and Policy*, Macmillan, New York.
- Mankiw, N. Greogory (2000), *Macroeconomics* Macmillan Worth Publishers 4th Edition
- Paul Samuelson and Nordhaus: (2005), *Economics* (18thEd.) Tata Hill Publishing Company

	Statistical Methods

Max. Marks: 100 — **Written Exam: 70 (3 Hours)**
Credits: 4 — **Internal Assessment: 30**

Note For the paper Setter

1. Nine Questions will be set in all and students will be required to attempt 5 questions.
2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks).
3. From the remaining eight questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each).

Course Outcomes

CO-1 Understand and solve the problems of construction and interpretation of index numbers for economic variables and measure various components of time series.
CO-2 Apply, solve and prove various probability theorems besides analyse and interpret statistical data using appropriate probability distributions.
CO-3 Understand the concept of correlation and Regression.
CO-4 Understand the estimation of degree & direction of relationship as well as cause & effect relationship between two variables.

UNIT I

Measure of central tendency
A.M, G.M, H.M., Median, Mode, Measures of dispersion-range, quartile deviation, Mean deviation, standard deviation, Lorenz curve.

UNIT- II

Correlation & Regression
Karl Pearson's Coefficient of Correlation, Rank correlation; Regression analysis, Types of Regression, Lines of Regression, Regression coefficients, Fitting of regression lines (Method of least square, Two variable only), Properties of Regression Coefficients, uses of Regression Analysis in statistics.

UNIT – III

Index numbers
Concept and method of construction of various type of indices, Laspeyer's, Paasche's and Fisher's index numbers; Family budget method. Tests of an ideal index number. Chain indices or Chain base Index Numbers. Base Shifting, Splicing and Deflating of Index Numbers, Cost of Living Index Numbers.

UNIT IV

Probability
Random experiment, Random variable, Sample space and events. Permutation and combinations. Theorems of Probability (Addition and Multiplication). Theoretical Distribution-Binomial, Poisson and Normal, with their properties.

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Suggested Readings

- Gupta, S. C. (1993). *Fundamentals of statistics*. S. Chand & Sons.
- Spiegel, M. R. (1992). *Theory and problems of statistics*. Schaum's Outline Series, McGraw-Hill.
- Karmel, P. H., & Polasek, M. (1998). *Applied statistics for economics* (4th ed.). Pitman.

	Indian Economy-II

Max. Marks: 75 **Written Exam: 50(2 hours)**
Credits: 3 **Internal Assessment: 25**

Note for the paper Setter

1. Seven Questions will be set in all and students will be required to attempt 4 questions.
2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus **(2x7=14 marks).**
3. From the remaining six questions, students will attempt 1 out of 2 questions from each of the three units **(12 marks each).**

Course Outcomes

CO1.Inculcate the ability to think like an Economist, the Economist as a Scientist.
CO2.Understand the nature of economic problem.
CO3.Have a basic understanding of Indian economy
CO4.Aware of the current challenges faced by Indian economy
CO5.Enhanced knowledge about the key reforms undertaking from time of time

Unit- I

New Economic Reform and Agriculture:

Indian Agriculture and WTO, Trends in Agricultural prices, Agricultural Price Policy, Agricultural subsidies, Public distribution system, Impact of public expenditure on agricultural growth of India.

Unit- II

New Economic Policy and Industry:

Strategy of industrialization – Privatization and Disinvestment, Role of foreign direct investment.

New Economic Policy and Trade- WTO and new EXIM policy; New Exchange Rate Regime- Partial and full convertibility, Capital account convertibility.

Unit- III

Demography

Demographic features of India’s population, Malthusian theory of population, Theory of demographic transition, Population and Economic Development, Population explosion, Causes and Remedies for population explosion, Population policy

Suggested Readings

- Mishra, S. K., & Puri, V. K. (2022). *Indian economy: Its development experience*. Himalaya Publishing House.
- Brahmananda, P. R., & Panchmukhi, V. R. (2007). *The development process of the Indian economy*. Himalaya Publishing House.
- Lucas, E. B., & Papanek, G. F. (1988). *The Indian economy: Recent developments and future prospects*. Oxford University Press.
- Deepashree. (2021). *Indian economy: Performance and policies*. Anmol Publications Pvt. Ltd.
- Government of India. (2025). *Economic survey 2024–25*. Ministry of Finance.
- *Economic and Political Weekly*. (2025). Sameeksha Trust.
- Aggarwal, A. N. (2022). *Indian economy*. V. K. Publications.
- World Bank. (2025). *World development report 2025*. World Bank.
- Mishra, S. K., & Puri, V. K. (2022). *Indian economy: Development experience*. Himalaya Publishing House.

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	Environmental Economics

Max. Marks: 75 **Written Exam: 50 (2 hours)**
Credits: 3 **Internal Assessment: 25**

Note for the paper Setter
1. Seven Questions will be set in all and students will be required to attempt 4 questions.
2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks).
3. From the remaining six questions, students will attempt 1 out of 2 questions from each of the three units (12 marks each).

Course Outcomes
CO1. Identify how externalities, public goods, and asymmetric information cause market failures in environmental contexts.
CO2. Evaluate the evolution of India's environmental policy from traditional command-and-control to modern regulatory frameworks.
CO3. Implement economic valuation methods like Travel Cost and Contingent Valuation to quantify environmental impacts.
CO4. Develop solutions for natural resource management using capital theory, Coase's bargaining, and collective action models.

UNIT – I

Environment, ecology and economy; Pareto optimality and perfect competition; External effects in production and consumption; Market failure in case of environmental goods - incomplete markets, externalities, non-exclusion; non-rivalry; non-convexities and asymmetric information.

UNIT – II

Environmental policy framework in India - problems of command & control regime; New Environment Policy. Natural resources: types, classification and scarcity; Elementary capital theory; Economics of natural resources.

UNIT – III

Coase's bargaining solution and collective action. Measures of economic value of environment WTP and WTAC; Contingent valuation method; Travel cost method; Hedonic market methods; Averting behaviour approach - household health production function method.

Suggested Readings

- Cropper, M. L. (1999). *Valuing environmental benefits*. Edward Elgar Publishing.
- Hanley, N., Shogren, J. F., & White, B. (1997). *Environmental economics in theory and practice*. Macmillan Press.
- Henderson, J. M., & Quandt, R. E. (1980). *Microeconomic theory: A mathematical approach*. McGraw-Hill.
- James, A. J., Murty, M. N., & Misra, S. (1999). *Economics of water pollution: The Indian experience*. Oxford University Press.
- Sankar, U. (Ed.). (2001). *Environmental economics*. Oxford University Press.

SEMESTER - III

	Economics of Growth and Development

Max. Marks: 100 **Written Exam: 70 (3 Hours)**
Credits: 4 **Internal Assessment: 30**

Note For the paper Setter

1. Nine Questions will be set in all and students will be required to attempt 5 questions.
2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks).
3. From the remaining eight questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each).

Course Outcomes

CO1: Understand Key Concepts of Economic Growth and Development and Sustainable Development and have ability to distinguish between them
CO2: Develop the ability to evaluate international frameworks such as the MDGs and SDGs in assessing global development efforts.
CO3: Comprehend the various approaches to measuring development
CO4: Understand and analyze the Nature and Measurement of Poverty and Inequality
CO5: Analyze the importance of choosing appropriate technology and techniques in the context of developing economies.
CO6: Evaluate how monetary and fiscal policies influence economic development

UNIT – I

Concepts - Economic growth, Economic development, and Sustainable development; MDGs and SDGs. Measuring Development: Income Measures, Basic Needs Approach, PQLI, HDI and Capabilities Approach; Goulet's core values of development.

UNIT -II

Poverty, Inequality and Development -Poverty - Absolute and relative - measures of poverty and their merits and demerits; Inequality - Measures of Inequality – Impact of poverty and Inequality and policy options
Approaches to Development - Balanced and Unbalanced Growth, Big Push Approach, Hirschman's Theory

UNIT – III

Theories of Growth - Harrod – Domar, Solow, Robinson, Kaldor, Rostow's Theory of Economic Growth

UNIT – IV

Technical Progress: Disembodied and embodied, Hicks and Harrod; Choice of techniques and appropriate technology; Objectives and role of monetary and fiscal policies in economic development; Role of education, research and knowledge – Explanation of Cross-country differentials in economic development and growth.

Suggested Readings

- Adelman, I. (1961). *Theories of economic growth and development*. Stanford University Press.
- Barro, R. J., & Sala-i-Martin, X. (2004). *Economic growth* (2nd ed.). MIT Press.
- Behrman, J. R., & Srinivasan, T. N. (Eds.). (1995). *Handbook of development economics* (Vol. 3). Elsevier.
- Brown, M. (1966). *On the theory and measurement of technical change*. Cambridge University Press.
- Chakravarty, S. (1982). *Alternative approaches to the theory of economic growth*. Oxford University Press.
- Chenery, H., & Srinivasan, T. N. (Eds.). (1989). *Handbook of development economics* (Vols. 1–2). Elsevier.
- Ghatak, S. (1986). *An introduction to development economics*. Allen & Unwin.
- Gillis, M., Perkins, D. H., Romer, M., & Snodgrass, D. R. (1992). *Economics of development* (3rd ed.). W. W. Norton.
- Higgins, B. (1959). *Economic development*. W. W. Norton.
- Jones, H. G. (1975). *An introduction to modern theories of economic growth*. Nelson.
- Meier, G. M., & Rauch, J. E. (2005). *Leading issues in economic development* (8th ed.). Oxford University Press.
- Ménard, C., & Shirley, M. M. (Eds.). (2008). *Handbook of new institutional economics*. Springer.
- Munich Personal RePEc Archive. (n.d.). *MPRA Paper No. 89355*. https://mpra.ub.uni-muenchen.de/89355/1/MPRA_paper_89355.pdf
- Schultz, T. P., & Strauss, J. (2008). *Handbook of development economics* (Vol. 4). Elsevier.
- Sen, A. K. (Ed.). (1990). *Growth economics*. Penguin.
- Thirlwall, A. P. (1999). *Growth and development* (6th ed.). Macmillan.
- Todaro, M. P., & Smith, S. C. (2003). *Economic development* (8th ed.). Pearson Education.

	International Trade and Finance-I

Max. Marks: 100 **Written Exam: 70 (3 Hours)**
Credits: 4 **Internal Assessment: 30**

Note For the paper Setter

1. Nine Questions will be set in all and students will be required to attempt 5 questions.
2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks).
3. From the remaining eight questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each)

Course Outcomes

CO1: Understand the concepts, scope, and significance of international and inter-regional trade.
CO2: Analyse classical and modern theories of international trade.
CO3: Evaluate the structure and dynamics of Balance of Payments and identify causes and remedies for disequilibrium.
CO4: Examine the concept and implications of the foreign trade multiplier in national income determination, especially in developing economies.
CO5: Understand the determination and functioning of exchange rates under fixed and flexible systems.
CO6: Critically assess various theories of exchange rate determination and the role of foreign exchange markets.

UNIT - I

International Trade & Inter – regional Trade: Meaning and features of inter-regional and international trade. Subject Matter/ Scope of International Trade, Differences and similarities between inter-regional and international trade. Economic growth and international trade, Gains from International Trade: Concept and Determinants.

UNIT - II

Theory of international trade: Adam Smith's theory of Absolute Advantage, Theory of Comparative Advantage, Theory of Opportunity Costs, Modern theory of International Trade (Heckscher-Ohlin).

UNIT - III

Balance of Payments: Meaning and components of BOP, Balance of Trade and Balance of Payments, equilibrium and disequilibrium in BOP, causes of adverse BOP, Measures to correct the adverse BOP ; Foreign Trade Multiplier and National Income, Leakages in Foreign Trade Multiplier, Importance of Foreign Trade Multiplier, Application of Foreign Trade Multiplier in Under-developed Economies.

UNIT - IV

Exchange rate: Meaning and Definitions, Fixed and flexible exchange rates, Merits and demerits of fixed and flexible exchange rates ; Theories of Exchange rate: Mint-Par theory, Purchasing power parity theory, Balance of payment theory, Foreign Exchange market: Expectations (Spot rate, forward exchange rate, speculative pressures)

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Suggested Readings

- Bhagwati, J. (Ed.). (1981). *International trade: Selected readings*. Cambridge University Press.
- Carbaugh, R. J. (1999). *International economics*. South-Western Thomson Publishing.
- Chacholiades, M. (1990). *International trade: Theory and policy*. McGraw-Hill.
- Dana, M. S. (2000). *International economics: Study guide and workbook* (5th ed.). Routledge.
- Dunn, R. M., & Mutti, J. H. (2000). *International economics*. Routledge.
- Kindleberger, C. P., & Lindert, P. H. (1978). *International economics* (6th rev. ed.). Richard D. Irwin.
- King, P. G. (1995). *International economics and international economic policy: A reader*. McGraw-Hill International.
- Krugman, P. R., & Obstfeld, M. (2009). *International economics: Theory and policy* (8th ed.). Pearson Addison-Wesley.
- Rana, K. C., & Verma, K. N. (2017). *International economics*. Vishal Publishing Co.
- Salvatore, D., & Sharma, C. (2021). *International economics* (13th ed., Indian adaptation). Wiley.
- Södersten, B., & Reed, G. (1999). *International economics* (3rd ed.). Palgrave Macmillan.

	Econometrics

Max. Marks: 100 **Written Exam: 70 (3 Hours)**
Credits: 4 **Internal Assessment: 30**

Note For the paper Setter

1. Nine Questions will be set in all and students will be required to attempt 5 questions.
2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks).
3. From the remaining eight questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each).

Course Outcomes

CO1: Understand the Foundation and methodology of econometric analysis
CO2: Estimate and Interpret Simple Regression Models
CO3: Diagnose and address Classical Assumption Violations
CO4: Evaluate and Choose Appropriate Econometric Models
CO5: Understand the issues of model specification
CO6: Estimate dynamic models involving lagged variables

UNIT I

Introduction: Definition, Scope, and Uses of Econometrics, Methodology of Econometrics, Specification of an econometric model, Nature and source of data for econometric analysis, Basic concept of PRF, Simple Regression Models: Problem of Estimation (OLS)-assumptions and properties of estimators, goodness of fit.

UNIT- II

Violations of the classical assumptions: Multicollinearity, heteroscedasticity & autocorrelation - nature, consequences, detection and remedial measures.

UNIT – III

Criteria for model selection, Specification – Simultaneous Equation bias and consistency of OLS Estimators, Identification Problem, Rank and order condition for identification, Indirect Least Square (ILS) and Two stage least square (2SLS) methods of estimation

UNIT IV

Dummy Variables – Nature and uses. ; Dynamics Models: Lags in econometrics, Role of lag in economics, distributed and autoregressive lags, Koyck model, adaptive expectations and partial adjustment approaches for rationalization of Koyck models, estimation of autoregressive models.

Suggested Readings

- Dougherty, C. (2011). *Introduction to econometrics* (4th ed.). Oxford University Press.
- Gujarati, D. N. (2014). *Econometrics by example* (2nd ed.). Palgrave Macmillan.
- Gujarati, D. N., & Porter, D. C. (2019). *Basic econometrics* (5th ed.). McGraw-Hill Education.
- Kmenta, J. (2008). *Elements of econometrics* (2nd ed.). Khosla Publishing House.
- Maddala, G. S., & Lahiri, K. (2009). *Introduction to econometrics* (4th ed.). Wiley.
- Wooldridge, J. M. (2014). *Introductory econometrics: A modern approach* (5th ed.). Cengage Learning.

	Agricultural Economics-I

Max. Marks: 75 **Written Exam: 50 (2 hours)**
Credits: 3 **Internal Assessment: 25**

Note for the paper Setter

1. Seven Questions will be set in all and students will be required to attempt 4 questions.
2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks).
3. From the remaining six questions, students will attempt 1 out of 2 questions from each of the three units (12 marks each).

Course Learning Outcomes

CO1: Analyze the significance of agricultural economics in India, understanding its basic features and market dynamics.

CO2: Understand the production functions in agriculture and the interdependence of agriculture and industry

CO3: Critically evaluate prominent agricultural development theories and understand agricultural marketing's role, challenges, and Farm management.

UNIT- I

Agricultural Economics: Meaning, Nature, Scope and Significance. Regional disparities in Indian agriculture, Features of Agriculture produce, Types of farming, and their importance. Nature and sources of risk in agriculture, modeling strategies and coping mechanisms. Supply and Demand Behavior in Agriculture**.**

UNIT- II

Production functions: Factor-product relationship, factor-factor relationship, and product-product relationship in Agriculture. Role of agriculture in economic development and its interdependence with the industrial sector. Agricultural Marketing: Concept and its role in agricultural development.

UNIT- III

Theories of Agricultural Development and Farm Management: Schultz's “Transforming Traditional Agriculture”; Lewis and Ranis Fei Model of agriculture development, Farm size and productivity debate, principles of farm planning and budgeting.

Suggested Readings

- Bardhan, P. K. (1999). *The political economy of development in India* (9th ed.). Oxford University Press.
- Brahmananda, P. R., & Panchmukhi, V. R. (2001). *Development experience in the Indian economy: Inter-state perspectives*. Bookwell.
- Datta, R., & Sundaram, K. P. M. (2003). *Indian economy*. S. Chand & Company.
- Gowri, U., Kavitha, B., Sangeetha, R., Padma Rani, S., & Kalpana, M. (2023). *Basic agricultural economics*. NIPA Publishers.
- Mishra, S. K., & Puri, V. K. (2022). *Indian economy*. Himalaya Publishing House.
- Reddy, S. S. (2020). *Agricultural economics* (2nd ed.). CBS Publishers & Distributors.
- Singh, C. B., & Singh, R. K. (2011). *A textbook of agricultural economics*. Laxmi Publications.

	Demography- I

Max. Marks: 75 **Written Exam: 50 (2 hours)**
Credits: 3 **Internal Assessment: 25**

Note for the paper Setter
1. Seven Questions will be set in all and students will be required to attempt 4 questions.
2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks).
3. From the remaining six questions, students will attempt 1 out of 2 questions from each of the three units (12 marks each).

Course Outcomes
CO 1: Understand the Scope and Relevance of Demography and gain knowledge of the basic concepts related to population change and composition
CO 2: Develop the ability to evaluate Classical and Modern Theories of Population
CO 3: Understand and analyze Nuptiality and Marital Trends
CO 4: Comprehend key mortality indicators and investigate mortality differentials based on age, sex, occupation, and residence
CO 5: Understand Life Table Techniques and Demographic Models

UNIT – I

Population and Development: Evolution of Demography; Meaning, subject matter, and importance of Demography; Concepts of population change and Composition of population; Sources of Demographic Data.
Theories of Population: Malthusian Theory, Optimum Theory; Theories of Demographic Transition: Blacker and Boserup; Biological theories of Population; Approaches of Meadows, Becker and Easterlin.

UNIT – II

Fertility- Meaning & Concepts, Importance of the study of fertility-Total fertility rate, Gross reproduction rate and Net reproduction rate. Levels and trends in developed and developing countries; Factors affecting fertility, Cohort Rates and Coale Indices.
Nuptiality: Concept and analysis of marital status; Trends in age at marriage, widowhood and divorce.

UNIT – III

Mortality - Meaning & Concepts; Factors affecting Mortality, Levels and trends in mortality in developed and developing countries; Mortality differences by age & sex, residence, occupation etc; Fetal and Infant mortality; Factors leading to decline in mortality in recent past; Life Tables:- construction and uses; Concepts of stationary, stable, and quasi-stationary population.

Suggested Readings

- Aggarwal, S. N. (1985). *India's population problem*. Tata McGraw-Hill.
- Bhende, A. A., & Kanitkar, T. (2014). *Principles of population studies*. Himalaya Publishing House.
- Bose, A. (1996). *India's basic demographic statistics*. B. R. Publishing Corporation.
- Bogue, D. J. (1971). *Principles of demography*. John Wiley & Sons.
- Chandna, R. C. (2014). *A geography of population: Concepts, determinants and patterns*. Kalyani Publishers.
- Choubey, P. K. (2000). *Population policy in India*. Kanishka Publications.

- District Level Household and Facility Survey. (n.d.). *DLHS reports*. http://www.iipsindia.ac.in/
- Gulati, S. C. (1988). *Fertility in India: An econometric study of a metropolis*. Sage Publications.
- Harper, S. (2018). *Demography: A very short introduction*. Cambridge University Press.
- Irudaya Rajan, S., & Sumeetha, M. (2020). *Handbook of internal migration in India*. Sage Publications.
- Majumdar, P. K. (2010). *Fundamentals of demography*. Rawat Publications.
- Mishra, J. P. (2018). *Demography*. Sahitya Bhawan Publications.
- Mukherji, S. (2013). *Migration in India: Links to urbanization, regional disparities, and development policies*. Rawat Publications.
- Newell, C. (1990). *Methods and models in demography*. Belhaven Press.
- Pathak, K. B., & Ram, F. (2016). *Techniques of demographic analysis*. Himalaya Publishing House.
- Seth, M. (2000). *Women and development: The Indian experience*. Sage Publications.
- Siegel, J. S., & Swanson, D. A. (2004). *The methods and materials of demography* (2nd ed.). Elsevier.
- Srinivasan, K. (1998). *Basic demographic techniques and applications*. Sage Publications.
- Srinivasan, K. (2017). *Population concerns in India: Shifting trends, policies and programs*. Sage Publications.
- Weeks, J. R. (2005). *Population: An introduction to concepts and issues* (9th ed.). Thomson Wadsworth.
- Weinstein, J., & Pillai, V. K. (2015). *Demography: The science of population*. Rowman & Littlefield.
- Yusuf, F., Martins, J. M., & Swanson, D. A. (2016). *Methods of demographic analysis*. Springer Netherlands.

SEMESTER - IV

	Public Economics

Max. Marks: 100 **Written Exam: 70 (3 Hours)**
Credits: 4 **Internal Assessment: 30**

Note For the paper Setter

1. Nine Questions will be set in all and students will be required to attempt 5 questions.
2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks).
3. From the remaining eight questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each)

Course Outcomes

CO 1: Understand the role of an Economist and inculcate the ability to think like an Economist, as a Scientist, and as a Policy Adviser.
CO 2: Develop a comprehensive understanding of different Public Finance concepts.
CO 3: Analyze various budgetary Practices.
CO 4: Apply the Taxation Principles
CO 5; Examine and understand Fiscal Federalism in the context of India.

UNIT – I

Meaning, scope and importance of public finance. Fiscal functions. The concept of public goods, Pure public goods, private goods, mixed goods, merit goods and club goods. The optimal provision of public goods (Lindhal's model and Samuelson's theory), Free Rider Problem, Market failure and government intervention.

UNIT – II

Concept of budget and its various types, purpose and principles of budgeting. Functions of a budget, Modern classification of budget. Balanced and Unbalanced Budget, Concept of various types of budgetary deficits and their implications. Deficit Financing: Meaning, objectives and effects. Fiscal discipline - concept, Fiscal Responsibility and Budget Management Act, 2003 – Need, Objectives and Key features. FRBM (Amendment) Act, 2018 (brief concept).

UNIT – III

Public expenditure: structure and growth of public expenditure. Wagner's Law, Peacock–Wiseman Hypothesis, Effects of public expenditure.
Theories of Taxation: ability to pay and benefit principle of taxation. Classification and effects of taxes, Elasticity, Buoyancy and Taxable capacity. Incidences of taxation.

UNIT – IV

Public Debt: Meaning and sources, Economic effects of Public Debt, Public Debt in India: objectives, composition, ownership and debt management.
Indian Fiscal Federalism: vertical and horizontal imbalances. Constitutional provisions of assignment of functions and sources of revenue. Centre – State financial relations, Problems of state resources and indebtedness, Local bodies Finance, Latest Finance Commission of India.

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Suggested Readings

- Akerlof, G. A. (1970). The market for “lemons”: Quality uncertainty and the market mechanism. *Quarterly Journal of Economics, 84*(3), 488–500. https://doi.org/10.2307/1879431
- Ayres, I., & Levitt, S. D. (1998). Measuring positive externalities from unobservable victim precaution: An empirical analysis of Lojack. *Quarterly Journal of Economics, 113*(1), 43–77.
- Boadway, R. (1984). *Public sector economics*. Cambridge Winthrop Publishers.
- Chelliah, R. J. (1996). *Sustainable growth: Essays on financial and fiscal sector reforms*. Oxford University Press.
- Coase, R. H. (1960). The problem of social cost. *Journal of Law and Economics, 3*, 1–44.
- Cullis, J., & Jones, P. (2009). *Public finance and public choice: Analytical perspectives* (3rd ed.). Oxford University Press.
- Hajela, T. N. (2010). *Public finance* (4th ed.). Ane Books Pvt. Ltd.
- Herber, B. P. (1984). *Modern public finance*. Richard D. Irwin.
- Hindriks, J., & Myles, G. D. (2013). *Intermediate public economics* (2nd ed.). MIT Press.
- Jha, R. (1999). *Modern public economics*. Routledge.
- Lekhi, R. K., & Singh, J. (n.d.). *Public finance*. Kalyani Publishers.
- Musgrave, R. A., & Musgrave, P. B. (1989). *Public finance in theory and practice* (5th ed.). McGraw-Hill.
- Peacock, A. T., & Shaw, G. K. (1970). *The economic theory of fiscal policy*. George Allen & Unwin.
- Rosen, H. S., & Gayer, T. (2009). *Public finance* (9th ed.). McGraw-Hill.
- Sarkaria Commission. (1988). *Report of the commission on centre-state relations*. Government of India, Ministry of Finance.

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	International Trade and Finance-II

Max. Marks: 100 **Written Exam: 70 (3 Hours)**
Credits: 4 **Internal Assessment: 30**

Note For the paper Setter
1. Nine Questions will be set in all and students will be required to attempt 5 questions.
2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks).
3. From the remaining eight questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each)

Course Outcomes
CO 1: Understand the Structure and Dynamics of Balance of Payments (BOP) and its equilibrium & disequilibrium adjustments.
CO 2: Understand, explain, and present various approaches to foreign exchange rate determination
CO 3: Understand and analyze the workings of International Financial Management and Institutions.
CO 4: Assess India's Foreign Trade Policy in a Global Context

UNIT - I

Alternative theories on International Trade- Offer curve analysis, J.S. Mill's Theory of Reciprocal Demand, Factor Price equalization theorem, Factor progress and Rybczynski theorem, Kravis Theory of Trade and Linder's theory.

Trade under imperfectly competitive markets conditions.

UNIT - II

Rationale of Protection: Tariff and non-tariff barriers to trade (Quota, voluntary export restraints, export subsidies, dumping and international cartel)
Economic Integration: Meaning and Forms of Economic Integration, Custom Union Meaning and Theories of custom Union (Viner and Lipsey
and Vanek), Static and dynamic effects of custom Union.

UNIT - III

Working of international institutions in trade and finance (WTO, IMF, UNCTAD and World Bank); Problem of international liquidity and indebtedness.
Working and regulations of MNCs in India

UNIT IV

Foreign Trade Policy in India: Trade Reforms in India since 1991 (Key features), Achievements and failures of India's foreign trade policies, Aatmnirbhar Bharat and Foreign Trade Policy - Key features; India's trade with BRICS Nations. India's trade with SAARC Nations. Challenges and opportunities of India's Free Trade Agreement with U.K. and European Union,

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Suggested Readings

- Bhagwati, J.(1981). *International trade: Selected readings*. Cambridge University Press.
- Carbaugh, R. J. (1999). *International economics*. South-Western Thomson Publishing.
- Caves, R. E., Frankel, J. A., & Jones, R. W. (2007). *World trade and payments: An introduction* (10th ed.). Pearson Education.
- Chacholiades, M. (1990). *International trade: Theory and policy*. McGraw-Hill.
- Dana, M. S. (2000). *International economics: Study guide and workbook* (5th ed.). Routledge.
- Dunn, R. M., & Mutti, J. H. (2000). *International economics*. Routledge.
- Feenstra, R. C., & Taylor, A. M. (2014). *International economics* (3rd ed.). Worth Publishers.
- Helpman, E. (2011). *Understanding global trade*. Belknap Press of Harvard University Press.
- Kindleberger, C. P., & Lindert, P. H. (1978). *International economics* (6th rev. ed.). Richard D. Irwin.
- King, P. G. (1995). *International economics and international economic policy: A reader*. McGraw-Hill International.
- Krugman, P. R., & Obstfeld, M. (2009). *International economics: Theory and policy* (8th ed.). Pearson Addison-Wesley.
- Rana, K. C., & Verma, K. N. (2017). *International economics*. Vishal Publishing Co.
- Salvatore, D., & Sharma, C. (2021). *International economics* (13th ed., Indian adaptation). Wiley.
- Södersten, B., & Reed, G. (1999). *International economics* (3rd ed.). Palgrave Macmillan.

	Agricultural Economics-II

Max. Marks: 75 **Written Exam: 50 (2Hrs)**
Credits: 3 **Internal Assessment: 25**

Note for the paper Setter
1. Seven Questions will be set in all and students will be required to attempt 4 questions.
2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks).
3. From the remaining six questions, students will attempt 1 out of 2 questions from each of the three units (12 marks each).

Course Outcomes
CO 1: Identify and evaluate the major sources of agricultural finance in India and analyze the role of NABARD in promoting rural and agricultural development.
CO 2: critically examine key agricultural policies in India, including pricing, procurement, insurance, and fertilizer policies, and assess their impact on farmers and food security.
CO 3: Analyze the impact of WTO policies on Indian agriculture, assess the causes of low productivity, and evaluate the role of technology and investments in enhancing agricultural performance and exports.

UNIT- I

Agricultural Finance and Contemporary Issues; Role of NABARD, Commercial Banks and RRBs; problems of rural indebtedness and loan waiving; Techniques for agricultural investment projects, including Net Present Value, Internal Rate of Return and Benefit Cost Ratio; Impact of WTO on agriculture, Agreement on Agriculture (AoA), and food security concerns.

UNIT- II

Agricultural Marketing and Price Policy-Characteristics of agricultural markets, market integration and efficiency criteria; Role of regulated markets (APMC), cooperative marketing, e-NAM, and supply chain management; objectives of agricultural price policy in India, criteria for fixing prices (CACP concepts), and inter sectoral terms of trade.

UNIT- III

Nature and measurement of technological progress, Impact of the Green Revolution; Share of Agriculture Produce in Indian Exports; Major causes of low productivity in Indian Agriculture and their solutions; Trends in public and private investment in Indian Agriculture.

Suggested Readings

- Bardhan, P. K. (1999). *The political economy of development in India* (9th ed.). Oxford University Press.
- Brahmananda, P. R., & Panchmukhi, V. R. (2001). *Development experience in the Indian economy: Inter-state perspectives*. Bookwell.
- Datta, R., & Sundharam, K. P. M. (2003). *Indian economy*. S. Chand & Company Ltd.

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- Gowri, U., Kavitha, B., Sangeetha, R., Padma Rani, S., & Kalpana, M. (2023). *Basic agricultural economics*. NIPA Publishers.
- Mishra, S. K., & Puri, V. K. (2022). *Indian economy: Development experience*. Himalaya Publishing House.
- Reddy, S. S. (2020). *Agricultural economics* (2nd ed.). CBS Publishers & Distributors Pvt. Ltd.
- Singh, C. B., & Singh, R. K. (2011). *A textbook of agricultural economics*. Laxmi Publications Pvt. Ltd.

	Demography-II

Max. Marks: 75 **Written Exam: 50 (2Hrs)**
Credits: 3 **Internal Assessment: 25**

Note for the paper Setter

1. Seven Questions will be set in all and students will be required to attempt 4 questions.
2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks).
3. From the remaining six questions, students will attempt 1 out of 2 questions from each of the three units (12 marks each).

Course Outcomes

CO 1: Comprehend the methodology of the Census in India with specific emphasis on the 2011 Census.
CO 2: Analyze the objectives and findings of various rounds of the National Family Health Survey
CO 3: Study and comprehend the changing demographic profile and occupational structure of India
CO 4; Gain knowledge of concepts related to migration – internal and international – with a special focus on India
CO 5: Examine the patterns, causes, and consequences of urbanization in developing countries, with special reference to India.
CO 6: Trace the evolution of India's population policy and major policy initiatives
CO 7: Analyze how demographic trends interact with economic growth and environmental sustainability

UNIT- I

Demographic Database in India

Census in India – Methodology and Characteristics; Nature of information collected with emphasis on 2011 Census. National Sample Survey and National Family Health Survey– Structure, Objectives and Key areas; Changing characteristics of population in India; Occupational Structure of Indian Population.

UNIT -II

Migration and Urbanization

Migration: Meaning & Types, importance of migration, Determinants of Migration, Sources of Migration Data, International Migration, Brain Drain and Brain Gain, Theories of Migration- Lewis's theory and Harris – Todaro Model, Migration in India.

Urbanization: Growth and distribution of Rural- Urban Population in Developing countries with special reference to India.

UNIT – III

Evolution of Population Policy in India: Evolution of Population: Shift of Population Policy from Population control to Reproductive and Child health care; Family Planning Strategies and their outcomes; National Population Policy, 2000; Demographic dividend in India: Features and importance, Harnessing demographic dividend in India: Challenges and measures,

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Suggested Readings

- Aggarwal, S. N. (1985). *India's population problem*. Tata McGraw-Hill.
- Bhende, A. A., & Kanitkar, T. (2014). *Principles of population studies*. Himalaya Publishing House.
- Bose, A. (1996). *India's basic demographic statistics*. B.R. Publishing Corporation.
- Bogue, D. J. (1971). *Principles of demography*. John Wiley.
- Chandna, R. C. (2014). *A geography of population: Concepts, determinants and patterns*. Kalyani Publishers.
- Choubey, P. K. (2000). *Population policy in India*. Kanishka Publications.
- Gulati, S. C. (1988). *Fertility in India: An econometric study of a metropolis*. Sage Publications.
- Harper, S. (2018). *Demography: A very short introduction*. Cambridge University Press.
- Irudaya Rajan, S., & Summeetha, M. (Eds.). (2020). *Handbook of internal migration in India*. Sage Publications.
- Majumdar, P. K. (2010). *Fundamentals of demography*. Rawat Publication.
- Mishra, J. P. (2018). *Demography*. Sahitya Bhawan Publication.
- Mukherji, S. (2013). *Migration in India: Links to urbanization, regional disparities, and development policies*. Rawat Publication.
- National Family Health Survey. (n.d.). *NFHS reports*. http://www.sciips.org
- Newell, C. (1990). *Methods and models in demography*. Bellhaven Press.
- Pathak, K. B., & Ram, F. (2016). *Techniques of demographic analysis*. Himalaya Publishing House.
- Seth, M. (2000). *Women and development: The Indian experience*. Sage Publications.
- Siegel, J. S., & Swanson, D. A. (2004). *The methods and materials of demography* (2nd ed.). Elsevier Science.
- Srinivasan, K. (1998). *Basic demographic techniques and applications*. Sage Publications.
- Srinivasan, K. (2017). *Population concerns in India: Shifting trends, policies & programs*. Sage Publications.
- Weeks, J. R. (2005). *Population: An introduction to concepts and issues* (9th ed.). Wadsworth Learning.
- Weinstein, J., & Pillai, V. K. (2015). *Demography: The science of population*. Rowman & Littlefield Publishers.
- Yusuf, F., Martius, J. M., & Swanson, D. A. (2016). *Methods of demographic analysis*. Springer Netherlands.

Value Added Course (s)
SEMESTER-I

	Sustainable Development

Maximum Marks:50 **Written exam:35(2 hrs)**
Credits:2 **Internal assessment:15**

Note for paper setter

1. Five Questions will be set in all and students will be required to attempt 3 questions.
2. Question No. 1 will be compulsory and will consist of 5 short answer type questions of 3 marks spread over the entire syllabus (3x5=15 marks).
3. From the remaining four questions, students will attempt 1 out of 2 questions from each of the two units (10 marks each)

Course Outcomes

CO1: Analyze the complex interrelationships between environmental systems, economic growth, and social well-being (ecology, economy, and equity).
CO2: Apply critical thinking to identify sustainability challenges and evaluate solutions relating to industrialization, biodiversity loss, and urbanization.
CO3: Develop, design, and implement sustainability indicators and action plans, including eco-tourism, community empowerment, and corporate sustainability strategies.

Unit I

Introduction Sustainable Development- Definition, Principles of Sustainable Development; History and emergence of the concept of Sustainable Development; Environmental issues and crisis; Sustainable Development Programs and Policies.

Unit II

SDGs & MDGs Evolution of Millennium and Sustainable development Goals, Millennium Development Goals, Sustainable Development Goals.

Suggested Readings

- Sachs, J. D. (2015). *The age of sustainable development*. Columbia University Press.
- World Commission on Environment and Development. (1987). *Our common future* (The Brundtland Report). Oxford University Press.
- United Nations. (2015). *Transforming our world: The 2030 Agenda for Sustainable Development.*

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SEMESTER-III

	Indian Budgetary System

Max. Marks: 50 **Written Exam: 35 (2 Hours)**
Credits: 2 **Internal Assessment: 15**

Note For the paper Setter

1. Five Questions will be set in all and students will be required to attempt 3 questions.
2. Question No. 1 will be compulsory and will consist of 5 short answer type questions of 3 marks spread over the entire syllabus (3x5=15 marks).
3. From the remaining four questions, students will attempt 1 out of 2 questions from each of the two units (10 marks each)

Course Outcomes

CO 1: Understand the Financial Planning role of the Government in India

CO 2: Analyze Budgetary Practices and Frameworks in India

CO 3: Understand the Budget Lifecycle in India

CO 4; Identify and describe the core components of the budget in India

UNIT – I

Budget: Concept, Constitutional provisions of Budget in India. Need, Objectives and functions of Government Budget, Brief description of Budget Documents and Components of Government Budget in India. Concepts of Balanced, Surplus and Deficit budget., Various types of deficits and impact of fiscal deficit

UNIT – II

Union budget and Interim Budget, Budget making process in India: Budgetary cycle, Stages of enactment of Budget, Others Grants, Actual, Revised and budget estimates, Policy highlights of the current Union Budget (brief outline), Analysis of impact of Current Union Budget mainly with reference to key sectors (In brief)

NOTE:-
The students to be guided towards understanding Union budget and its impact through student centric group discussions and debates. This activity may be included in the internal assessment process.

Suggested Readings

- Bagchi, A. (2003). *Fiscal federalism in India*. Oxford University Press.
- Bhatia, H. L. (2021). *Public finance* . Vikas Publishing House.
- Goel, S. L. (2002). *Public financial administration*. Deep & Deep Publications.
- Government of India. (2014). *Report of the Thirteenth Finance Commission*. https://fincomindia.nic.in
- Government of India. (2019). *Report of the Fourteenth Finance Commission*. https://fincomindia.nic.in
- Government of India. (2021). *Report of the Fifteenth Finance Commission (2021–26)*. https://fincomindia.nic.in
- Government of India, Ministry of Finance. (2026). *Economic survey of India (Annual)*. https://www.indiabudget.gov.in
- Government of India, Ministry of Finance. (2026). *Brief description of budget documents*. https://dea.gov.in/divisionbranch/brief-description-budget-documents
- Jha, R. (2002). *Modern public economics*. Routledge.
- Musgrave, R. A., & Musgrave, P. B. (1989). *Public finance in theory and practice* (5th ed.). McGraw-Hill Education.
- Saxena, A. (2011). Gender budgeting in India. *The Indian Journal of Public Administration*.
- Singh, S. K. (2014). *Public finance in theory and practice*. S. Chand Publishing.

Multidisciplinary Course (s)

SEMESTER-I

	Introduction to Economics

Max. Marks: 75 **Written Exam: 50 (2 Hrs.)**
Credits: 3 **Internal Assessment: 25**

Note for the paper Setter
1. Seven Questions will be set in all and students will be required to attempt 4 questions.
2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks).
3. From the remaining six questions, students will attempt 1 out of 2 questions from each of the three units (12 marks each).

Course Outcomes
CO1: Understand the various concepts and theories of economics.
CO2: Develop ability to think critically and evaluate economic problems, with an emphasis on applying knowledge of fundamental principles of production and costs to a grasp of real-world issues.
CO3: Analyse given circumstances on a microeconomic level across a range of marketplaces.

UNIT – I

Definition of Economics, Nature and scope of Economics; Basic Economic Problem - Choice and Scarcity, Basic Central Problems of an Economy; Positive and Normative Economics; Types of Economies and their Characteristics; Microeconomics Vs Macroeconomics.

UNIT– II

Demand, Market Demand, Law of Demand, Demand Determinants; Supply, Market Supply, law of Supply; Price Mechanism and Working of Price Mechanism.
Macroeconomic Issues of an Economy; Circular Flow of Income – Two sector, Three sector and Four sector Model.

UNIT – III

Underdevelopment- Meaning and Characteristics; Economic Growth and Development Meaning, Determinants of Economic Development, Obstacles of Economic Development, Sustainable Development- Meaning, Features, Importance.

Suggested Readings
- Koutsoyiannis, A. (1979). *Modern microeconomics* (2nd ed.). Macmillan Press.
- Lipsey, R. G., & Chrystal, K. A. (2014). *Economics*. Oxford University Press.
- Salvatore, D. (2006). *Microeconomics: Theory and applications*. Oxford University Press.
- Varian, H. R. (2003). *Intermediate microeconomics*. East-West Press.

SEMESTER-II

	Financial Institutions and Market

Max. Marks: 75 **Written Exam: 50(2 hrs.)**
Credits: 3 **Internal Assessment: 25**

Note for the paper Setter

1. Seven Questions will be set in all and students will be required to attempt 4 questions.
2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks).
3. From the remaining six questions, students will attempt 1 out of 2 questions from each of the three units (12 marks each).

Course Outcomes

CO1.Understanding the structure and functioning of financial markets.
CO2.Identify the instrument of capital market and money market.
CO3.It explains the role of financial system on economic development.
CO4.This will enable students to take the rational decision in financial environment

UNIT – I

Structure of Indian Financial System

An overview of the Indian financial system. Commercial Banking: Role of Banks. RBI: objectives and functions, NBFCs: types and difference between Banks and NBFCs, SEBI: objectives and functions

UNIT – II

Introduction to Financial Markets in India

Role and Importance of Financial Markets, Types of Financial Markets: Money Market; Call money market; treasury bill market; Capital Market; Linkages Between Economy and Financial Markets

UNIT – III

Introduction to Stock Markets

Major Instruments traded in stock markets- Equity Shares, Debentures, Exchange Traded Funds; Mutual Fund- types of Mutual Funds and different types of schemes; Corporate Bonds vs. Government Bonds.

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Suggested Readings

- Bhole, L. M. (1999). *Financial institutions and markets*. Tata McGraw-Hill Company Ltd.
- Bhole, L. M. (2000). *Indian financial system*. Chugh Publications.
- Edminster, R. O. (1986). *Financial institutions, markets and management*. McGraw-Hill.
- Goldsmith, R. W. (1969). *Financial structure and development*. Yale University Press.
- Johnson, H. J. (1993). *Financial institutions and markets*. McGraw-Hill.
- Karker, P. T., & Zenios, S. A. (Eds.). (2000). *Performance of financial institutions*. Cambridge University Press.
- Khan, M. Y. (1996). *Indian financial systems*. Tata McGraw-Hill.
- Machiraju, M. R. (1999). *Indian financial system*. Vikas Publishing House.

SEMESTER-III

	Drivers of Indian Economy towards Viksit Bharat

Max. Marks: 75 **Written Exam: 50(2 hrs.)**
Credits: 3 **Internal Assessment: 25**

Note for the paper Setter

1. Seven Questions will be set in all and students will be required to attempt 4 questions.
2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks).
3. From the remaining six questions, students will attempt 1 out of 2 questions from each of the three units (12 marks each).

Course Outcomes

CO 1: Analyses the foundational and emerging drivers of India's economic growth.
CO2: Evaluate the role of education, healthcare, infrastructure, and innovation in development.
CO3: Critically assess national missions and policy frameworks like Atmanirbhar Bharat, Digital India, and Make in India.
CO4: Propose innovative models and reforms to support India's development journey.

UNIT – I

Historical Overview of India 's development journey since 1947.
Viksit Bharat vision 2047: Vision, objectives, and its implications for different sectors. Growth engines for Viksit Bharat, difference from previous growth models of India

UNIT – II

Agriculture and Rural economy transformation under Viksit Bharat and key challenges, Need and features of Agriculture Subsidy Reforms in Viksit Bharat, Agri-Tech and Entrepreneurship.
MSMEs as a growth engine and challenges, Opportunities and challenges in Education, Healthcare and Infrastructure. Housing and urban planning for inclusive growth.

UNIT – III

Key Initiatives of Viksit Bharat, Digital India and Technology- Impact of Technology on various sectors. Role of Startups and Innovation ecosystems. Digital Transformation, Role of Smart City Mission, Make in India: objective and outcomes

Suggested Readings

- Das, G. (2002). *India unbound*. Penguin Books.
- Government of India. (2025). *Economic survey of India 2024–25*. Ministry of Finance. https://www.indiabudget.gov.in/
- Government of India. (2025). *Digital India*. Ministry of Electronics and Information Technology. https://www.digitalindia.gov.in/
- Government of India. (2025). *PM Gati Shakti: National master plan*. Government of India. https://gati.shakti.gov.in/
- International Monetary Fund. (2025). *India: Staff report / Article IV consultation reports*. https://www.imf.org/
- Joshi, V. (2015). *India's long road: The search for prosperity*. Penguin Books.
- NITI Aayog. (2025). *Viksit Bharat @2047 vision documents*. Government of India. https://www.niti.gov.in/
- Sharma, M. (2021). *Restart: The last chance for the Indian economy*. Juggernaut Books.
- World Bank. (2025). *World development indicators / India country reports*. https://www.worldbank.org/

SEMESTER-IV

	Indian Economic Policy

Max. Marks: 75 **Written Exam: 50 (2 hrs.)**
Credits: 3 **Internal Assessment: 25**

Note for the paper Setter

1. Seven Questions will be set in all and students will be required to attempt 4 questions.
2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks).
3. From the remaining six questions, students will attempt 1 out of 2 questions from each of the three units (12 marks each).

Course Outcomes

CO 1: Understand Structural Changes and Policy Institutions in the Indian Economy
CO 2: Understand and Evaluate the Impact of Economic Reforms in India
CO3: Understand the goals, tools, and effectiveness of India's fiscal and monetary policies
CO 4: Analyze Sector-Specific Policies and Performances
CO 5: Understand Recent Fiscal, Financial, and Trade Reforms

UNIT – I

Structural change in Indian Economy and its emerging sectors. Economic Planning in India. NITI Aayog.
Economic Reforms in India. Liberalization, Privatization and Globalization. Sustainable development policies in India – SDGs (in brief), green growth strategy, energy transition policies, Smart Cities Mission, AMRUT, Green bonds and Mission LiFE policies (all policies to be done in brief),

UNIT – II

Objectives and instruments of Fiscal Policy and Monetary Policy in India, Indian Agriculture Policies and performance, Industrial policies and performance, Private and public sector-Industrial sickness, Role of Information Technology in Industrial Development..

UNIT – III

Structure and direction of foreign trade in India, Importance of foreign trade for a developing economy, Foreign direct Investments, Official development assistance, Globalization and its impact on Indian Economy, WTO and its impact on the different sectors of the economy, World Bank and India.

Suggested Readings

- Datt, G., & Mahajan, A. (2020). *Datt & Sundharam's Indian economy*. S. Chand Publishing House.
- Dhar, P. K. (2020). *Indian economy: Its growing dimensions*. Kalyani Publishers.
- Meier, G. M. (1987). *Pioneers in development*. Oxford University Press.
- Ministry of Finance. (2025). *Economic survey*. Government of India.
- Mishra, S. K., & Puri, V. K. (2020). *Indian economy*. Himalaya Publishing House.
- Rameshan, P. (2008). *WTO, India and emerging area of trade: Challenges and strategies*. Excel Books.
- Stiglitz, J. E. (2002). *Globalization and its discontents*. Penguin Books.

Ability Enhancement Course (s)
SEMESTER-I

	Economics of Capital Market in India

Maximum Marks:50 **Written exam:35(2 hrs.)**
Credits:2 **Internal assessment:15**

Note for paper setter:

1. Seven Questions will be set in all and students will be required to attempt 4 questions.
2. Question No. 1 will be compulsory and will consist of 5 short answer type questions of 3 marks spread over the entire syllabus (3*5=15 marks).
3. For the remaining three questions, students will attempt 1 out of 2 questions from each of the four units (10 marks each).

Course Outcomes

CO1: Develop in-depth knowledge of SEBI regulations, investor protection guidelines, and the legal framework governing capital markets.
CO2: Acquire skills in fundamental and technical analysis, portfolio management, and financial research to evaluate company performance and securities.
CO3: Gain hands-on experience in trading mechanisms, Demat systems, clearing, and settlement processes, often using simulation tools.

UNIT –I

Capital Market in India:

Capital Market- Meaning & Significance; Components of Capital Market- Primary Market (Key features, instruments and functions) and Secondary Market (Key features, institutions and functions); Investment Process in Stock Market- Pre – requisites for investing; Bank Account, Demat Account, Trading Account; Process of buying and selling in Stock Market (steps in brief); Initial Primary Issue (IPO)- Concept, need and significance, SEBI regulations for IPO; Role of Capital Market in Economic Development.

UNIT – II

Stock Exchanges in India-

Meaning, functions & Significance of stock exchanges; BSE & NSE- Organisation and Management; Security Analysis for investment in shares (steps in brief); Economic Analysis (GDP, Inflation, Interest Rate); Industry Analysis and Company Analysis; Financial Analysis- Reading Balance Sheet, Income statement, Cash Flow Statement; Ratio Analysis- P/E Ratio, P/B Ratio, Debt – to – Equity ratio, ROE, ROCE, EPS; Capital Market and Vision of Viksit Bharat 2047.

Suggested Readings

- Agarwalla, S. K., & Agarwalla, K. N. (2019). *Financial markets in India*. IIM Ahmedabad.
- Bhole, L. M. (2017). *Financial institutions and markets: Structure, growth and innovations* (6th ed.). McGraw Hill Education.
- Khan, M. Y. (2019). *Indian financial system* (11th ed.). McGraw Hill Education.
- Pathak, B. V. (2018). *The Indian financial system: Markets, institutions and services* (5th ed.). Pearson Education.

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SEMESTER-II

	Economics of Mutual funds in India

Maximum Marks:50 **Written exam:35(2 hrs.)**
Credits:2 **Internal assessment:15**

Note for paper setter:
1. Seven Questions will be set in all and students will be required to attempt 4 questions.
2. Question No. 1 will be compulsory and will consist of 5 short answer type questions of 3 marks spread over the entire syllabus (3*5=15 marks).
3. For the remaining three questions, students will attempt 1 out of 2 questions from each of the four units (10 marks each).

Course Outcomes
CO1. Understand the concept and working of Mutual Funds.
CO2. Differentiate between various types of Mutual Funds.
CO3. Understand the regulatory and legal structure of Mutual Funds.
CO4. To comprehend various evaluation methods of Mutual Funds.

UNIT – I

Mutual Funds – Concept, Classification of mutual funds in India, Functioning of Mutual Funds, different ways to investment in Mutual Funds, Advantages of mutual funds, Risks in investing in mutual funds, Factors influencing the choice of Mutual Funds, Role of Mutual Funds in Capital Markets development, Role of Mutual Funds in Economic Growth; Role of Mutual Funds – From financial inclusion to financial wellbeing in the vision of Viksit Bharat

UNIT – II

Evaluation of Mutual Funds – Measures of returns and risk in Mutual Funds schemes.
Net Asset Value (NAV): Concept, computation, factors impacting NAV; Systematic Investment Plan (SIP), Systematic Transfer Plan (STP), Systematic Withdrawal Plan (SWP). Economic Rationale and Need for regulation of Mutual Funds, Role of Association of Mutual Funds in India (AMFI), Functions of regulatory agencies for Mutual Funds (SEBI & RBI).

Suggested Readings

- Chandra, P. (2000). *Investment analysis and portfolio management*. Tata McGraw-Hill Publishing Company.
- Damodaran, A. (2012). *Investment valuation: Tools and techniques for determining the value of any asset* (3rd ed.). Wiley.
- Fischer, D. E., & Jordan, R. J. (1996). *Security analysis and portfolio management*. Prentice Hall.
- Gupta, A. (2002). *Mutual funds in India: A study of investment management*. Anmol Publications.
- Sadhak, H. (2003). *Mutual funds in India*. Response Books.
- Sankaran, S. (2018). *Indian mutual funds handbook: A guide for industry professionals and intelligent investors*. Vision Books.
- Sankaran, S. (2019). *Indian mutual funds handbook: A guide for industry professionals and intelligent investors* (2nd ed., 3rd rev. ed.). Vision Books.

SEMESTER-IV

	Entrepreneurship

Max. Marks: 50 **Written Exam: 35 (2 Hours)**
Credits: 2 **Internal Assessment: 15**

Note for paper setter:
1. Seven Questions will be set in all and students will be required to attempt 4 questions.
2. Question No. 1 will be compulsory and will consist of 5 short answer type questions of 3 marks spread over the entire syllabus (3*5=15 marks).
3. For the remaining three questions, students will attempt 1 out of 2 questions from each of the four units (10 marks each).

Course Outcomes
CO 1: Understand the Concept of Entrepreneurship and recognize the essential traits and competencies required for successful entrepreneurship
CO 2: Analyze the Factors Influencing Entrepreneurial Emergence and Growth
CO 3: Evaluate the concept of Sustainable Entrepreneurship
CO 4: Compare and contrast the entrepreneurial and managerial mindsets

UNIT – I

Entrepreneurship- Concept, Types, traits of successful entrepreneurs (along with class discussion on success stories of few Indian Entrepreneurs – Nykaa, Oyo rooms, Paytm, Ola cabs, Flipkart etc.), factors impacting emergence of entrepreneurship, stages of entrepreneurial growth and development, barriers to Entrepreneurship,
Sustainable Entrepreneurship- its principles and barriers.

UNIT – II

Entrepreneurial decision-making process, Factors influencing entrepreneurial decisions, Process of setting up a new business enterprise, Government Schemes/ Programs for entrepreneurs in India in last one decade, Importance of entrepreneurs in circular economy, Role of entrepreneurship in economic development,

Suggested Readings

- Desai, V. (2019). *Dynamics of entrepreneurial development and management*. Himalaya Publishing House.
- Jain, R. (2001). *Planning a small scale industry: A guide to entrepreneurs*. S. S. Books.
- Katz, J., & Green, R. (2014). *Entrepreneurial small business* (4th ed.). McGraw-Hill.
- Khanka, S. S. (2020). *Entrepreneurship development*. S. Chand Publishing.
- Kumar, S. A. (2013). *Entrepreneurship in small industry*. Discovery Publishing House.
- McClelland, D. C., & Winter, D. G. (1969). *Motivating economic achievement*. Free Press.
- Charantimath, P. M. (2018). *Entrepreneurship development and small business enterprises* (3rd ed.). Pearson Education.
- Hisrich, R. D., Peters, M. P., & Shepherd, D. A. (2020). *Entrepreneurship* (11th ed.). McGraw-Hill Education.

Skill Enhancement Courses (s)

SEMESTER-II

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	Introduction to Research Methodology

Maximum Marks: 50 **External written Exam: 25(2 hrs.)**
External Practical: 10 **Internal Assessment: 10**
Internal Practical: 05 **Credits:2**

Note for Paper Setter
1. Five Questions will be set in all, and students will be required to attempt 3 questions.
2. Question No. 1 will be compulsory and will consist of 3 short answer type questions of 3 marks spread over the entire syllabus (3x3=09 marks).
3. For the remaining two questions, students will attempt 1 out of 2 questions from each of the two units (08 marks each).

Course Outcomes: After completing this course, the learner will be able to:
CO1.Understanding of the research process, including its types, objectives, and design (qualitative and quantitative).
CO2. Analyse key concepts like variables and hypotheses, sampling techniques, and data collection methods (primary and secondary).
CO3. Students will be able to design studies, choose suitable methods, and collect data effectively.

NOTE FOR PRACTICAL WORK: Students will be required to undertake a small research project involving formulation of a research problem, preparation of questionnaire/schedule, collection of primary or secondary data, basic analysis, and presentation of findings in the form of a report.

UNIT-I

Research – Meaning, Objectives and Types, Research Process, Criteria of a Good Research.
Research Design: Meaning, Need, Types, Approaches to Research Design: Qualitative and Quantitative, Basic Concepts: Dependent and Independent Variables, Research Hypothesis

UNIT-II

Sampling: Meaning, Sampling Methods- Probability and Non- Probability, Sampling and Non- Sampling Error, Methods of Data Collection:
Collection of Primary Data- Observation, Interview, Questionnaire and Schedule Methods in brief, Collection of Secondary Data: Various Sources, Selection of appropriate Method for Data Collection.

Suggested Readings

- Creswell, J. W. (2014). *Research design: Qualitative, quantitative, and mixed methods approaches* (4th ed.). SAGE Publications.
- Kothari, C. R. (2004). *Research methodology: Methods and techniques* (2nd ed.). New Age International Publishers.
- Sekaran, U., & Bougie, R. (2016). *Research methods for business: A skill-building approach* (7th ed.). Wiley.
- Burns, R. B. (2000). *Introduction to research methods* (4th ed.). SAGE Publications.
- Neuman, W. L. (2014). *Social research methods: Qualitative and quantitative approaches* (7th ed.). Pearson.
- Babbie, E. (2013). *The practice of social research* (13th ed.). Cengage Learning.
- Bryman, A. (2016). *Social research methods* (5th ed.). Oxford University Press.
- Saunders, M., Lewis, P., & Thornhill, A. (2019). *Research methods for business students* (8th ed.). Pearson Education.

	Digital Economics

Maximum Marks: 50 — **External written Exam: 25(2 Hrs.)**
External Practical: 10 — **Internal Assessment: 10**
Internal Practical: 05 — **Credits:2**

Note for the paper Setter
1. Five Questions will be set in all, and students will be required to attempt 3 questions.
2. Question No. 1 will be compulsory and will consist of 3 short answer type questions of 3 marks spread over the entire syllabus (3x3=09 marks).
3. For the remaining two questions, students will attempt 1 out of 2 questions from each of the two units (08 marks each).

Course Outcomes
CO1: Understand the defining features and economics of digital markets and platforms.
CO2: Analyze market power, monopolistic tendencies, and antitrust issues in the digital economy.
CO3: Evaluate the role of government in regulating digital platforms and addressing policy challenges.
CO4: Assess the impact of digital transformation on innovation, productivity, and socio-economic policies.

NOTE FOR PRACTICAL WORK: Students shall conduct a mini project or case study on digital markets or platforms, including analysis of pricing strategies, network effects, market structure, or regulatory issues, using primary or secondary data, and present the findings in a written report or presentation.

UNIT- I
Introduction to Digital Economics

Definition and scope, Characteristics of digital markets, Economics of digital platforms (e.g.. network effects, multi-sided markets), Case studies of major digital platforms (e.g.. Google, Amazon, Facebook), Characteristics of information goods (e.g., non-rivalry, non-excludability), Pricing strategies for digital products, The role of intellectual property in the digital economy.

UNIT- II
Digital Marketplaces and E-Commerce

Market power and monopolistic tendencies in digital markets, Antitrust concerns related to digital platforms, Government's role in regulating the digital economy, Policy challenges in the digital age (e.g., taxation, labor market impacts), The impact of digital transformation on innovation and productivity

Suggested Readings

- Acemoglu, D., & Restrepo, P. (2018). *Artificial intelligence, automation, and work* (NBER Working Paper No. 24196). National Bureau of Economic Research.
- Autor, D. H. (2015). Why are there still so many jobs? The history and future of workplace automation. *Journal of Economic Perspectives, 29*(3), 3–30.
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- Bloom, N., Garicano, L., Sadun, R., & Van Reenen, J. (2014). The distinct effects of information technology and communication technology on firm organization. *Management Science, 60*(12), 2859–2885.
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- Chaffey, D., & Ellis-Chadwick, F. (2019). *Digital marketing: Strategy, implementation, and practice* (7th ed.). Pearson Education.
- Cockfield, A. J., Hellerstein, W., Millar, R., & Waerzeggers, C. (2013). *Taxing global digital commerce*. Kluwer Law International.
- Crémer, J., de Montjoye, Y.-A., & Schweitzer, H. (2019). *Competition policy for the digital era*. European Commission.
- Degryse, C. (2016). *Digitalisation of the economy and its impact on labour markets* (Working Paper 2016.02). European Trade Union Institute.
- Evans, D. S., & Schmalensee, R. (2016). *Matchmakers: The new economics of multisided platforms*. Harvard Business Review Press.
- Gasser, U., & Palfrey, J. (2008). *Born digital: Understanding the first generation of digital natives*. Basic Books.
- Goldfarb, A., Greenstein, S. M., & Tucker, C. E. (2019). *The economics of artificial intelligence: An agenda*. University of Chicago Press.

SEMESTER-III

	Data Analysis

Maximum Marks: 50 **External written Exam: 25 (2 Hrs)**
External Practical: 10 **Internal Assessment: 10**
Internal Practical: 05 …………………………………………………………Credits:2

Note for Paper Setter

1. Five Questions will be set in all, and students will be required to attempt 3 questions.
2. Question No. 1 will be compulsory and will consist of 3 short answer type questions of 3 marks spread over the entire syllabus (3x3=09 marks).
3. For the remaining two questions, students will attempt 1 out of 2 questions from each of the two units (08 marks each).

Course Outcomes

CO 1: Understand and apply the measures of central tendencies and interpret their significance in summarizing data sets.
CO 2: Compute and interpret mean deviation, standard deviation, and coefficient of variation to assess the spread and consistency of data.
CO 3: Understand the concept of correlation and calculate & interpret correlation coefficients.
CO 4: Understand the concepts of simple and multiple linear regression along with the application of simple linear regression and interpret the regression coefficient
CO 5: Understand the key elements of hypothesis testing

NOTE: The theory paper will be set on the basic concepts and simple numerical examples.

NOTE FOR PRACTICAL WORK: In the practical classes the students to learn the following concepts through MS Excel. Internal practical and External practical exam to include the performance on practical usage of MS Excel.

UNIT-1

Basic Measures of Central Tendency and Dispersion- Arithmetic Mean, Median, Mode, Mean Deviation, Standard Deviation, Coefficient of Variation and Lorenz Curve.
Correlation: Meaning and types, Methods of measurement: Graphic, Algebraic (Karl Pearson, Spearman)

UNIT-2

Basic Concept of Simple and Multiple Linear Regression, Application of simple linear regression, Coefficient of determination, Difference between correlation and regression
Testing of Hypothesis- Basic Concept of Hypothesis testing (Null Hypothesis, Alternative Hypothesis, Type-1 and Type -II Errors, Level of Significance, Critical Region or Rejection Region, Critical Value), Procedure of testing a hypothesis

Suggested Readings

- Aggarwal, B. L. (2006). *Basic statistics*. New Age International Publishers.
- Gupta, S. C., & Kapoor, V. K. (2007). *Fundamentals of applied statistics*. S. Chand and Sons.
- Naghshpour, S. (2012). *Statistics for economics*. Business Expert Press.
- Sharma, J. K. (2012). *Business statistics*. Dorling Kindersley (India) Pvt. Ltd.