# Devi Ahilya Vishwavidyalaya, Indore Unified Syllabus for Universities/ Colleges (Madhya Pradesh) M. A. - Advance Diploma (1 yr.) As per guidelines given by Higher Education, Bhopal.

# Scheme of Papers – B-3 (with non practicum component)

'	Core Papers - 5 ci	redit each		
(CC -11)	(CC -12)	(CC -13)	(CC -14)	Internship / Apprenticeship /Seminar
Micro Economics	Public Economics	Mathematics for Economics	History of Economic Thought	+ 2 credits
400	400	400	400	Total Credits =22
	Semester -	H		
(CC -21)	(CC -22)	(CC -23)	(CC -24)	Internship / Apprenticeship /Seminar
Macro Economics	Computer Application for Economics	Financial Institutions & Markets	Statistical Methods	+ 2 credits
400	400	400	400	Total Credits =22
	Micro Economics 400 (CC -21)  Macro Economics	Micro Economics  400  Semester -  (CC -21)  (CC -22)  Macro Computer Application for Economics  400  400	Micro Economics Public Economics Economics Economics  Semester - II  (CC -21) (CC -22) (CC -23)  Macro Computer Application for Economics Markets  Markets  400 400 400	Micro Public Economics Economics Economics Economics Economics Economics Economics Thought  400 400 400 400  Semester - II  (CC -21) (CC -22) (CC -23) (CC -24)  Macro Computer Application for Economics Application for Economics Markets

( Red. Vishakha Kutumbale)

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# Semester I - Core Papers (Theory Paper)

# 1. Micro Economics:

Part	A Introduction					
	ram: Advance ma in Economics	Class :MA Semester -	(Economics) I	Year: Ist Year	Session: 2025-26	
			Subject: Eco			
1	Course Code		Eco 103			
2	Course Title			Micro Econom		
3	Course Type (Co Discipline Specifi			Core C	ourse	
4	Pre-requisite (if a	ny)	<ul> <li>To study this course student must have one subject of economics in the graduation</li> <li>Basic mathematical skills including graph reading, functions, percentages, and elementary algebra.</li> <li>Ability to interpret tables, charts, and basic numerical data.</li> <li>Ability to follow economic arguments, evaluate assumptions, and think logically about cause-effect relationships in economic decision-making.</li> </ul>			
5	Course Learning (CLO)	outcomes	be able to: CLO 1.Devel Cultivate the analytically, decision-make CLO 2.Stren Enhance the diagrams, and conclusions. CLO 3.Impro Apply micro	op Economic Think ability to think I and critically abouting in real-world of the Analytical SI ability to interpret d theoretical mode ove Problem-Solving economic concepts	ike an economist—logically, but individual and firm-level economic scenarios.  kills: and analyze economic data, els to draw reasoned	
			Strengthen co		oning: numbers, graphs, and nd predict economic	

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				_	
			outcomes.	•	
6 7	Credit Va Total Mar	<del></del>	CLO 5.Encourage Policy Awarend Develop an informed perspective theory informs public policy, tax market regulation.  CLO 6.Prepare for Advanced E Lay the groundwork for further research, or careers in teaching analysis, or financial services.  5  Max. Marks: 40 + 60 Min	con he ation,	subsidies, and  nic Study or Careers: sework in economics,
		Part I	3- Content of the Course		
Total	No. of Lect	ures-Tutorials-Prac	tical (in hours per week):	_	
L-T- Unit	P:	Topics			No. of Lectures (1 Hour Each)
Unit	1	Introduction to Eco	onomics: Principles of Economics,		02
Intro	duction to	Scarcity and Choic			
Micro	oeconomic		ility Curve, Marginal & Incremental		01
S		Concepts			
			indations: Approaches to study tive and Inductive approach, etc)		02
			prium: static, comparative statics, a	ind	01
			ero Economics: (difference and		02
		similarity between	Micro and Macro Economics)		
Activ	ity		fy a local community issue and ana e scarcity, choice, trade-offs, etc .	lyze	
				1	0.0
Unit 2		Cardinal and ordina			02
Const Behav			approach and budget constraints ution effects: Hicksian and Slutsky		03
		methods, Price effe			
		Revealed preference			01
			and duality in consumer theory		01
		and religious norms	nmer Preferences: (Role of cultures in consumption), Effect of ossessiveness), Sanyam (restraint)		01
Activ	ity		ocal consumers and observe or intercent purchase decision.	view	

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them regarding a recent purchase decision.

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Unit 3	Law of Demand, Demand Curve. Exceptions of Law of	03
Unit 3 Demand	Demand.	
	Demand function and determinants	02
Analysis	Movement and Shifts in Demand Curve.	02
	Concept and Different types of Elasticity of Demand.	03
Activity	Students can analyze real-world cases where demand	
Activity	increased or decreased sharply with the reasons.	
Unit 4	Production functions: short-run and long-run analysis	03
Theory of	Laws of returns: law of variable proportions and returns	02
Production and	to scale	
Costs	Isoquants and isocost lines	02
	Cost concepts: total, average, marginal, and opportunity	02
	costs	
	Short-run and long-run cost curves	02
		01
	Indigenous Production Systems:	
	·	
	Artisans, weavers, potters: understanding small-scale	
	firm behavior	
	Cost minimization in traditional agriculture and	
	crafts	
	Returns to traditional knowledge in agriculture (e.g.,	
	crop rotation, cow dung as input)	
<del></del>		
Activity	Students can choose a local small business or enterprise and	
Activity	conduct a cost-production analysis by interacting with the	11-11-11
Activity		
	conduct a cost-production analysis by interacting with the owner or staff.	02
Unit 5	conduct a cost-production analysis by interacting with the owner or staff.  Perfect competition: characteristics, price and output	02
Unit 5 Market	conduct a cost-production analysis by interacting with the owner or staff.  Perfect competition: characteristics, price and output determination and its implications	
Unit 5 Market	conduct a cost-production analysis by interacting with the owner or staff.  Perfect competition: characteristics, price and output determination and its implications  Monopoly: price determination, price discrimination, and	02
Unit 5 Market	conduct a cost-production analysis by interacting with the owner or staff.  Perfect competition: characteristics, price and output determination and its implications  Monopoly: price determination, price discrimination, and its implications	02
Unit 5 Market	Perfect competition: characteristics, price and output determination and its implications  Monopoly: price determination, price discrimination, and its implications  Monopolistic competition: product differentiation and	-
Unit 5 Market	Conduct a cost-production analysis by interacting with the owner or staff.  Perfect competition: characteristics, price and output determination and its implications  Monopoly: price determination, price discrimination, and its implications  Monopolistic competition: product differentiation and selling costs and its implications	02
Unit 5 Market	conduct a cost-production analysis by interacting with the owner or staff.  Perfect competition: characteristics, price and output determination and its implications  Monopoly: price determination, price discrimination, and its implications  Monopolistic competition: product differentiation and selling costs and its implications  Oligopoly models: Cournot and kinked demand curve	02
Unit 5 Market	conduct a cost-production analysis by interacting with the owner or staff.  Perfect competition: characteristics, price and output determination and its implications  Monopoly: price determination, price discrimination, and its implications  Monopolistic competition: product differentiation and selling costs and its implications  Oligopoly models: Cournot and kinked demand curve and its implications	02 02 02
Unit 5 Market	conduct a cost-production analysis by interacting with the owner or staff.  Perfect competition: characteristics, price and output determination and its implications  Monopoly: price determination, price discrimination, and its implications  Monopolistic competition: product differentiation and selling costs and its implications  Oligopoly models: Cournot and kinked demand curve	02 02 02 01
Unit 5 Market	conduct a cost-production analysis by interacting with the owner or staff.  Perfect competition: characteristics, price and output determination and its implications  Monopoly: price determination, price discrimination, and its implications  Monopolistic competition: product differentiation and selling costs and its implications  Oligopoly models: Cournot and kinked demand curve and its implications	02 02 02
Activity Unit 5 Market Structures	conduct a cost-production analysis by interacting with the owner or staff.  Perfect competition: characteristics, price and output determination and its implications  Monopoly: price determination, price discrimination, and its implications  Monopolistic competition: product differentiation and selling costs and its implications  Oligopoly models: Cournot and kinked demand curve and its implications  Collusive and non-collusive oligopoly  Market Structures in Indian Villages:	02 02 02 01
Unit 5 Market	Perfect competition: characteristics, price and output determination and its implications  Monopoly: price determination, price discrimination, and its implications  Monopolistic competition: product differentiation and selling costs and its implications  Oligopoly models: Cournot and kinked demand curve and its implications  Collusive and non-collusive oligopoly  Market Structures in Indian Villages:  Weekly markets (haats) as forms of imperfect	02 02 02 01
Unit 5 Market	conduct a cost-production analysis by interacting with the owner or staff.  Perfect competition: characteristics, price and output determination and its implications  Monopoly: price determination, price discrimination, and its implications  Monopolistic competition: product differentiation and selling costs and its implications  Oligopoly models: Cournot and kinked demand curve and its implications  Collusive and non-collusive oligopoly  Market Structures in Indian Villages:	02 02 02 01







Activity	Students can identify and analyze different market structures by studying real-world industries and firms for different products.
Production Func	Consumer Behavior, Utility Analysis, Indifference Curve, Elasticity of Demand, tion, Market Structures, Oligopoly, Price Mechanism, Factor Pricing, Rent, Profit, Pareto Efficiency, Economic Models, Rational Choice, Marginal Analysis,
	Part C-Learning Resources
	Text Books, Reference Books, Other resources
1. Suggested R	Readings:
_	dvanced Economic Theory (Microeconomic Analysis), S. Chand & Company Ltd., 2022, 22nd Edition.
☐ Koutsoyianni 2003, 2nd Edition	s, A. Modern Microeconomics, Macmillan Publishers, London, United Kingdom, (Reprinted).
☐ <b>Pindyck, R.S.</b> 9th Edition.	, & Rubinfeld, D.L. Microeconomics, Pearson Education, New Delhi, India, 2020,
1	Intermediate Microeconomics: A Modern Approach, W.W. Norton & Company, d States, 2019, 9th Edition.
☐ Mansfield, E United States, 200	Microeconomics: Theory and Applications, W.W. Norton & Company, New York, 00, 11th Edition.
1	, & Blinder, A.S. Microeconomics: Principles and Policy, Cengage Learning, ates, 2020, 14th Edition.
☐ <b>Jhingan, M.L</b> Edition.	Microeconomic Theory, Vrinda Publications (P) Ltd., Delhi, India, 2023, Latest
2. Suggestive d	ligital platforms/ web links
□ SWAYAM (G	overnment of India MOOCs Platform)
	yam.gov.in
,	onal Programme on Technology Enhanced Learning)
• https://npte	el.ac.in ourseWare – Principles of Microeconomics
•	v.mit.edu/courses/economics/14-01sc-principles-of-microeconomics-fall-2011/
*	a – Economics
• <u>https://epg</u>	p.inflibnet.ac.in

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Suggested equivalent online cours	ses:	
Part 1	D-Assessment and Evaluation	
Suggested Continuous Evaluation	Methods:	
Maximum Marks: 100		
Continuous Comprehensive Evaluation	(CCE): 40 Marks University Exam (UE): 60 Marks	
Internal Assessment : Continuous	Class Test Assignment/Presentation	
Comprehensive Evaluation (CCE)		40
External Assessment:	Section(A): Very Short Questions	
University Exam Section	Section (B): Short Questions	60
Time: 03.00 Hours	Section (C): Long Questions	-

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# 2. Public Economics --

		Par	t A Intr	oduction		
Program: Advance Diploma in Economics Semester			r - I	Year: Ist Year	Sessi	ion: 2025-26
			bject: Ec		100	
1	Course C					
2	Course Ti		Public Economics - CC - 12			
3	Course/ D	Course Type (Core Course/ Discipline Specific Elective/)		Core Course		
4		site (if any)	subject i	this course, a stud n Degree.	ent mus	t have had this
5	5 Course Learning outcomes (CLO)			r all essful completion s will be able to:	of this	course, the
				<ol> <li>Understand the need for government intervention in the economy.</li> <li>Analyse taxation and public expenditure principles.</li> <li>Evaluate fiscal policy and budgeting processes.</li> <li>Apply economic tools to public policy issues.</li> <li>Assess government programs and financial reforms</li> </ol>		
6	Credit Va	lue		5 cre	edits	
7	Total Mai	<del></del>	Max. Marks: 40 + 60 Min. Passing Marks: 35			
			Content	of the Course		
Total No.		Tutorials-Practi		<del></del>		
Unit		Topics				No. of Lectures (1 Hour Each)
Economics- Concept, Scope, Provision of Public Good  Design Pre Maide wh pro		Impure Public Go Consumption and Demand and Sup Preference Revalu Majority Voting Ridea of working for which can be limprovision.	olic Private boods, Quas Non-Excl pply of P ation, Voti Rule.Concepor the welfanked to the	e, Concept, Role and Merit Goods in Public Good. Nor udability of Public ublic Good. Proble ng Rules, Characterist of "Loka-sangrahate and cohesion of se concept of public type of goods in the	, Pure n-Rival Good, ms of stics of ": The ociety, good	10

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	Unit Activity: Identify each type of goods in the local regional economy with GPS location and your reasoning to classify it so.	8
Unit-2 Public Expenditure	Public Expenditure, Structure, And Growth. Wagner's Law of Increasing of Increasing State Activity, Wiseman Peacock Hypothesis. Benefit and Ability to Pay Approaches to Taxes Allocative and Equity Aspects of Taxes. Economic Effects of Public Expenditure on Production and Distribution. Public Expenditure and Economic Growth. Canon Of Expenditure. Theories Of Public Expenditure- Rahn Curve, Colin Clark Critical Limit Hypothesis. Maximum Social Advantage Theory by Dalton. Allocation of State Resources in Ancient India: Examining how resources were allocated in ancient Indian kingdoms for various purposes such as defence, infrastructure (e.g., wells, temples, roads), welfare activities (e.g., famine relief), and maintenance of administration, as documented in historical texts.  Unit Activity: Give five examples from the current fiscal year for public expenditure by Local, State and Central governments that affect production and distribution in the respective economy.	
Unit-3 Public Revenue and Tax System in India	Meaning, Classification, Sources, Principles, and Effects of Public Revenue. Classification of Taxation -Indirect and Direct Tax. Progressive and Non-Progressive Taxation, Incidents, and Effects of Taxation. Indian Tax System: An Assessment, An Introduction To MODVAT, CENVAT, and Goods and Service Tax (GST). Issues In the Taxation Service in India. Canon Of Taxation. Ancient Indian Taxation Principles: Analysis of taxation principles and practices described in texts like Artha shastra, Manu Smriti, and other dharma-shastras. This could include discussions on different types of taxes (e.g., land revenue, customs duties), fairness in taxation, and the idea of a king's legitimate share of produce.  Unit Activity: Identify two articles/research papers (last five years) focused on Goods and Service Tax and your summary/critical analysis of it.	10
Unit-4 Budgeting and Public Debt	Meaning. Objectives, Different Forms of Budget. Budgetary Process in India. Kinds of Budget- Traditional Budget, Performance Budget. Zero Based Budget, Outcome Budget, Gender Budget. Cost Benefit Analysis, Shadow Pricing, Discount Rate. Public Borrowing Public Debt Budgeting. Public Debt, Objective of Public Debt, Methods of Debt Redemption. Effects of Public Debt. State Financial Management in	0

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	Ancient Kingdoms: While not a formal modern budget, examining how ancient Indian states managed their income and expenditure, and the foresight applied in managing surpluses and deficits, possibly through systems of granaries for famine relief or strategic reserves.  Unit Activity: Analyze central and state government's current fiscal year budget.	
Unit-5 Fiscal Federalism and Fiscal Reforms in India	Fiscal Federalism and Fiscal Reforms in India. Centre-State Financial Relation, Balanced Budget Multiplier-Principle of Division of Financial Resource in Federation. Horizontal and Vertical Imbalance-Finance Commission and Planning Commission in Resources Transfer from Center to the States in India. Ethical Governance and Reforms from IKS Perspective: Applying broader IKS principles of good governance, justice, and welfare to contemporary fiscal reforms, emphasizing sustainability, equity, and public benefit.  Unit Activity: Compare the last two finance commissions and give a comparative analysis of their pros and cons.	10
Keywords/Tags: Pub	lic goods, Rudget Fiscal Defense	

### goods, Budget, Fiscal Reforms, Government, Revenue, Tax Part C-Learning Resources

# Text Books, Reference Books, and Other resources

#### Text Books:

- Dr. S.K. Singh-Public Finance, S.Chand Pub. 2008
- Sundram K P M, Andley K.K.- Public Finance, S.Chand Pub. 2003
- Dr. B.P. Tyagi Public Finance, Jai Prakashan, Auth. 1975
- M. Maria John, Kennedy-Public Finance, PHI Pvt. Ltd.2013
- Late. V.G.Mankar, Prof. L.S.Sharma- Public Finance Himalaya Pub. 2001
- Modern Public Finance, Herper Bernard P., AITBS Pub.2006
- Public Finance- Andley
- R.K. Lekhi, Public Finance

#### Suggested Readings:

- Duff L, Government and Market, orient Longman, New Delhi 1997.
- Qullis. John and Jones Phillp: Public Finance and Public Choice, Oxford University Press, Second Edition 1998
- Atkinson Anthony B, Stiglitz, Josheph E; Lectures on Public Economics, Mac Graw Hill Book Co. Singapore 1980
- Musgrave, Richard A, Musgrave, Peggy B; Public Finance in Theory and Practice, Tata Mc Graw Hill Company, New Delhi 2004
- Chelliah Raja J; Fiscal Policy in Under Developed Countries, George Allen and Unwin, London 1971

#### Articles

1.Agno Sandmo (1976): Optimal Taxation: An Introduction to Literature, Journal of Public

Changle

Economics, 6, pp 37-54.

2.Berry, Steven T. and Joel Waldfogel (1999): "Public Radio in the U.S.: Does it Correct Market" Public Radio in the U.S.: Does it Correct Market Failure of Cannibalize Commercial Stations?" Journal of Public Economics 71, 189-211.

3. Charles Tiebout (1956): "A Pure Theory of Local Expenditures, Journal of Public Economics, 64, 416-424.

4.Blejer, M. and Adrienne, C. (1993): 'How to Measure the Fiscal Deficit', International Monetary Fund, Washington DC

# Suggested Readings for Indian Knowledge System in Public Economics:

# Text Books (exploring IKS concepts relevant to Public Economics):

- Kautilya's Arthashastra (Various editions, e.g., R. Shamasastry or L.N. Rangarajan
- The Mahabharata (especially the Santi Parva)
- Manusmriti (or the Laws of Manu)
- Varma, V.P. Foundations of Indian Political Thought
- Altekar, A.S. State and Government in Ancient India
- Trautmann, Thomas R. Kautilya and the Arthashastra: A New Introduction
- Ganguli, B.N. History of Indian Economic Thought
- Pande, G.C. Hindu Economics

# Suggested Readings (articles/works for deeper dive into specific IKS aspects):

- (Search for articles like) Agno Sandmo (1976): Optimal Taxation: An Introduction to Literature, Journal of Public Economics, 6, pp 37-54. (While not IKS, this is an example of an existing article from your syllabus)
- (Search for articles on) Public Finance in Ancient India: A Review of Kautilya's Arthashastra (look in journals like Indian Economic Review, Journal of Indian History, Annals of the Bhandarkar Oriental Research Institute)
- (Search for articles on) The Concept of Welfare in Ancient Indian Political Thought (look in journals focusing on political philosophy, ancient history, or Indology)

#### Suggested equivalent online courses: Part D-Assessment and Evaluation Suggested Continuous Evaluation Methods: Maximum Marks: 100 Continuous Comprehensive Evaluation (CCE): 40 Marks University Exam (UE): 60 Marks Internal Assessment: Continuous Class Test Assignment/Presentation Comprehensive Evaluation (CCE) 40 **External Assessment:** Section(A): Very Short Questions University Exam Section Section (B): Short Questions Time: 03.00 Hours 60 Section (C): Long Questions Any remarks/ suggestions:

# **Theory Paper**

#### 3. Mathematics for Economics

		Part A Intr	oduction		
_	: Advance in Economics	Class :MA(Economics) Semester - I	Year: Ist Year	Session: 2025-26	
		Subject: Ec	onomics		
1	Course Code		Eco -	103	
2	Course Title	Mathe	natics for Economic	es (CC -13)	
3	Course Type ( Course/ Discip Specific Electi	line	Core Course		
4	Pre-requisite (	. • ,	To study this course, a student must have had this subject in Degree. Open for all		
5	Course Learni outcomes (CL	1. Exp math 2. Den syste 3. Utili repr 4. Perf mult econ 5. Emp equa 6. Emp			
6	Credit Value		5 cred	lits	
7	Total Marks	Max. M	arks: 40 + 60	Min. Passing Marks:35	
		Part B- Content	of the Course		

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Unit	Topics	No. of Lectures	
		(1 Hour Each)	
Unit I	Introduction to Mathematical Economics	10	
	The nature of Mathematical Economics; Mathematical vs Non-mathematical Economics; Variables (Endogenous and Exogenous), Constant, Coefficient and Parameters; Equations, Inequations and Identities.		
	Mathematical Preliminaries: Number system, Natural numbers, Whole numbers, Integers, Rational and Irrational numbers, Complex numbers, Indices and surds, Laws of indices, Logarithms.		
	IKS:Karaṇī (Surds)		
	Unit Activity: Identify Endogenous, Exogenous variables from current affairs citing at least 5 newspaper articles.		
Unit 2	Sets and Functions	10	
	Definition of Set, Elements, Set Notations (enumeration and description); Finite and infinite sets; Relationship between Sets – Equal Sets, Subset, Superset, Power Set, Null or Empty sets, Disjoint Set; Operations on Sets – Union, Intersection, Complement Set, Universal Sets; Laws on Set Operations – Commutative and Distributive Law.		
	Relations and Functions: Definition, Domain and range of function, Continuous and discrete function, Composition and inverse function, Order of composition, Decomposition of a function, Classification of functions.  Unit Activity: Identify 5 Functions from Economics.		
Unit 3	Matrices, Determinants and Simultaneous Linear	10	
	Equations: Concept of Matrices, Type of Matrices, Operations on Matrices, Addition and Multiplication of Matrices, Singular and Non - Singular Matrices, Transpose, Adjoint and Inverse of Matrices,		

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	Equations.  Unit Activity: Give 5 examples of dataset arranged in a Matrix form.	
Unit 4	Differentiation: Derivative, Process of Differentiation, Rules of Differentiation of a function, Derivatives of higher order, Sign of derivative and nature of function, I and II order conditions for Maxima and Minima and saddle point.  Unit Activity: Utilise Differentiation to calculate Marginal Utility for a Utility Equation.	12
Unit 5	Integration: Basic formula of integration, Standard results, substitution method, Method of partial fractions. Application of Integration in Economics.  Unit Activity: Utilise Integration to calculate Consumer Surplus for a Demand Equation.	8

Keywords/Tags: Mathematical Economics, Endogenous Variables, Exogenous Variables, Number Systems, Sets and Functions, Matrices and Determinants, Simultaneous Linear Equations, Differentiation, Integration, Logarithms and Indices, Equations and Identities, Economic Modeling, Matrix Algebra.

#### **Part C-Learning Resources**

#### Text Books, Reference Books, and Other resources

- 1. A. C. Chiang, "Fundamental Methods of Mathematical Economics," Mc Graw-Hill, New York, 1984.
- 2. Business Mathematics P. Mariappan, Publisher: Pearson
- 3. Mathematics for Economists B.C. Mehta, G.M.K. Madanani, Publisher : Sultanchand & Sons
- 4. Business Mathematics- M. Wilson, Publisher: Himalaya Publishing House
- 5. An Introduction to Mathematical Economics D. Bose, Publisher: Himalaya Publishing House
- 6. Sydsaeter, K., Hammond, P. (2002). Mathematics for economic Analysis. Pearson Educational.
- 7. History and Development of Mathematics in India, 2022, pp. 182–192

Suggested equivalent online courses:

#### Part D-Assessment and Evaluation

**Suggested Continuous Evaluation Methods:** 

Maximum Marks: 100

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Internal Assessment : Continuous Comprehensive Evaluation (CCE)	Class Test Assignment/Presentation	40
External Assessment :	Section(A): Very Short Questions	
University Exam Section	Section (B): Short Questions	60
Time: 03.00 Hours	Section (C):Long Questions	

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# **Theory Paper**

4. History of Economic Thoughts

		Pa	rt A Intro	duction	
Program: Diploma i	Advance n Economics	Semeste		Year: Ist Year	Session: 2025-26
			ubject: Eco	onomics	<del></del>
1	Course Cod		Uisto m	of Economic Tho	ughts (CC 14)
3	Course Typ Course/ Dis Specific Ele	e (Core cipline	History	Core C	
4	Pre-requisi		To study subject in Open for	n Degree.	ent must have had this
5 Course Learning outcomes (CLO)			On succe		of this course, the
			CLO-1	Understand the cond	cept of History of Economic
			Thought and its role in shaping modern economic ideas		
			with a fo	ocus on ancient econo	omic thought.
			CLO -2	Analyze the develo	pment of economic thought
			in the an	cient world, includir	ng contributions from diverse
			civilizations and philosophers.		
			CLO -	3 Evaluate the econo	omic philosophies of
			Mercant	ilism and Physiocrac	y, along with the
			introduc	tion of Marxian critic	que.
			CLO -	4 Deconstruct the co	re concepts and key figures
			of Classi	cal Economics, critic	cally examining their ideas.
			CLO -	5 Navigate the vario	us schools within
			Neoclass	sical Economics, und	lerstanding their prominent
			thinkers	and the rise of Behav	vioral Economics.
6	Credit Valu			5 cre	
7	Total Mark		1		Min. Passing Marks: 35
Total No. ( L-T-P: 50	of Lectures-Ti	<del></del>		f the Course rs per week):	
Unit	1	opics			No. of Lectures (1 Hour Each)

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Unit 1	Introduction and Definition of History of economic thought: Introduction to History of Economic Thought, Ancient History and development of economic ideas and thoughts. Significance/ Importance of History of Economic Thought.  Unit Activity: Write a Case talking about Ancient History.	6
Unit 2	Economics in Ancient World: Economic Thought of Hebrews, Sumer Civilization, Non-Western Economic Thought and Greek Economic Thought. Idea and Thoughts of Ancient philosopher namely - Hesiod Theogony, Xenophon, Plato, Aristotle, Chanakya, Abu Hamid al-Ghazali, Saint Thomas Aquinas, Ibn Khaldun Etc.  IKS: Kautilya's Arthasastra: economics and polity Unit Activity: Write a Case talking about Kautilya's Economic Thought.	8
Unit 3	Medieval Economic Thought: Mercantilism Thoughts, Definitions of Mercantilism, Features and characteristics of Mercantilism. Factors Shaping Mercantilism. Physiocrats thoughts and Physiocracy, Definitions, Features and characteristics of Physiocrats. Karl Marx, Marxist Political Economy and Marxism. Difference between Socialism, Marxism and Communism.  Unit Activity: Write a Case talking about Dada Bhai Naroji School of Thought.	10
Unit 4	Classical School of Thoughts: History of Classical Economics. Concepts of Classical Economic Thoughts, Idea, theory and thoughts of classical Economist namely Adam Smith, Jean-Baptiste Say, David Ricardo, Thomas Malthus, John Stuart Mill, Anne Robert Jacques Turgot, etc.  Unit Activity: Identify key differences between Smith and Ricardo's point of views.	12
Unit 5	Neo-Classical School of Thoughts: History and meaning of Different Schools and Economist thoughts that contributes in EconomicThoughts and	14

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history.

Austrian School and its Economist thoughts in brief namely Carl Menger, Eugen Von Bohm-Bawerk, and Friedrich Von Wieser.

Lausanne School of Thoughts and its Economist. Leon Walras, Vilfredo Pareto, Henry Ludwell Moore.

Cambridge school of thoughts and its economist namely Alfred Marshall, A.C Pigou, Francis Edgeworth, John Maynard Keynes etc.

American School of thoughts and its Economist namely J.B Clark and Irving Fisher.
Keynesian and Macroeconomics thoughts;

Unit Activity: Write a Case talking about Amratya Sen's Contribution to Economy.

**Keywords/Tags:** History of Economic Thought, Ancient Economic Ideas, Greek Philosophers, Mercantilism, Physiocracy, Classical Economics, Neoclassical Economics, Austrian School, Keynesian Economics, Marxism vs Communism, Medieval Economic Thought, Cambridge School, Islamic Economic Scholars.

#### **Part C-Learning Resources**

#### Text Books, Reference Books, and Other resources

- 1. Loganathan, V. 1998. *History of Economic Thought*. New Delhi: S. Chand and Company.
- 2. Sankaran, S. 2000. *History of Economic Thought*. Chennai: Margham Publications. *Self-Instructional Material*
- 3. Coleman, Janet. 2000. A History of Political Thought. New Delhi: Wiley-Blackwell.
- 4. Jha, Shefali. 2010. Western Political Thought: From Plato to Marx. New Delhi:Pearson Education India.
- 5. Dasgupta, A. K. (2015). Kautilya's Arthasastra: Economics and Polity. In *A history of Indian economic thought*.

#### Suggested equivalent online courses:

#### Part D-Assessment and Evaluation

#### **Suggested Continuous Evaluation Methods:**

Maximum Marks: 100

Continuous Comprehensive Evaluation (CCE): 40 Marks University Exam (UE): 60 Marks

Internal Assessment : Continuous	Class Test Assignment/Presentation	
Comprehensive Evaluation (CCE)		40
External Assessment:	Section(A): Very Short Questions	
University Exam Section	Section (B): Short Questions	60
Time: 03.00 Hours	Section (C): Long Questions	

Any remarks/ suggestions:

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### SEMESTER II - Theory Core Papers

#### 1. Macro Economics

=		Part A Int	troduction	
_	n: Advance a in Economics	Class :MA(Economics) Semester - II Subject: F	Year: Ist Year Conomics	Session: 2025-26
1	Course Code		Eco -	103
2	Course Title	Magra	Economics (CC- 21	
3	Course Type ( Course/ Discip Specific Electiv	line	Core Course	
4	Pre-requisite (		y this course, a studer in Degree. Open for a	nt must have had this all
5	Course Learni outcomes (CLC	9	On successful completion of this cours will be able to:	
				re macroeconomic ational income accounting
		dema	•	nctioning of aggregate ermining macroeconomic
		econ	3 To compare Class omic models and eva	ical and Keynesian luate their assumptions
		macr		ectives, instruments, and if fiscal and monetary amework.
		inves	- •	neories of consumption, mand, and relate them to
6	Credit Value		5 cred	its

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7	Total Marks	Max. Marks: 40 + 60	Min. Pas	ssing Marks: 35
	Part l	B- Content of the Course		
Total No	. of Lectures-Tutorials-Prac	ctical (in hours per week):	L-T-P: 50	
Unit	Topics	, <u></u>		No. of Lectures
				(1 Hour Each)
Unit 1	Introduction to a	nacroeconomics and its co	ncepts :	08
	savings, investr components. Con Circular flow of open economy. A	variables: Consumption ement, national income ncept of stock and flow money in two sector, threggregate Supply & aggregate in AS & AD in the long results.	and its variables. e sector & ate demand	
		tional income accounting additure Approach, Valu		
		dentify Stock and Flow ticle and justify your reaso		
		on-year growth of the for the last three years, for and GVA.		
Unit 2	Classical ClassicalTheory,S. andwithoutsavinga KeynesianModelo Vs Classicals, Crit Unit Activity: Ide in the recent past Keynes's concept. IKS: Growth Pat Ancient India	which have been successivern, Structures of Economics and Significance of Irm in Modern Trade	ne Model. ly. Keynes  plicies ful in  ny in	12
Unit 3	Introduction to Fi Its Objectives as Objectives & instruments of IS-LM Curve —	scal & Monetary Policy nd instruments of Fisca uments of Monetary Policy.	l Policy. Effect of	10

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	Curve, crowding effect and effects of Tax, Money supply on these curves.	
	Multiplier Theory – Simple Investment & Govt. Budget multiplier, Tax Multiplier & Foreign Trade Multipliers, Effects of Multipliers.	
	Unit Activity: Exercise 5 numerically on the concept of IS-LM curve in estimating equilibrium income and interest rate.	
Unit 4	Theories of Consumption and Investment-Consumption: Concept of Consumption Function, APC and MPC. Factors affecting consumption. Theories of consumption —Absolute, relative, life cycle, Permanent Income Hypothesis.  Investment: Investment Function, Determinants of Investments, MEC and MEI, Dynamic Multiplier. Saving function and Paradox of thrift. Trend of Consumption, Saving and Investment in India.  Unit Activity: Estimate growth of Aggregate Consumption Expenditure of India, Gross savings, Financial savings and Physical Savings for the last three years.	10
Unit 5	Money – Functions & Types, Theories of Demand for money-Pre Keynesianism, Liquidity Preference theory, Theories of Demand for money-Post Keynesianism, Money multiplier and its components, Supply of money and stock of money supply  Unit Activity: Make a time series of M3 and M4 for	10
	the past 8 weeks. What are New Monetary Aggregates of Money Supply	
Keywords/Tags: Investment, Para	MEC (marginal efficiency to capital), MEI (marginal effidox of thrift,	ciency to
	Part C-Learning Resources	

#### Text Books, Reference Books, and Other resources

- 1. Shapiro, E. (1996), Macroeconomic Analysis, Galgotia Publications, New Delhi.
- 2. Mankiw, N.G. (2009) Macroeconomics. 7th Edition, Worth, New York.
- 3. Dornbusch, R. and F. Stanley (1997), Macroeconomics, McGraw Hill, Inc., New York.

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- 4. Ackley, G. (1978), Macroeconomics: Theoryand Policy, Macmillan, New York.
- 5. AhujaH.L.Modern Economics 13thEdition, 2008, S.Chandand Company Ltd., New Delhi.
- 6 Jhingan, M.L. (2002) Macro Economics Theory. Vrinda Publishers, New Delhi.
- 7 Agrawal S., (2025) Growth of Indian Economy through Indian Knowledge System. **IKS Chapter 29 -**

https://shodhsamagam.com/uploads/issues\_tbl/1743859421rowth-of-Indian-Economy-through-Indian-Knowledge-System.pdf

#### Suggested equivalent online courses:

#### Part D-Assessment and Evaluation

#### **Suggested Continuous Evaluation Methods:**

Maximum Marks: 100

Continuous Comprehensive Evaluation (CCE): 40 Marks University Exam (UE): 60 Marks

Internal Assessment: Continuous Comprehensive Evaluation (CCE)	Class Test Assignment/Presentation	40
External Assessment:	Section(A): Very Short Questions	
University Exam Section	Section (B): Short Questions	60
Time: 03.00 Hours	Section (C): Long Questions	

Any remarks/ suggestions:

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#### 2. Computer Application for Economic Analysis

		Part A	Introduction				
Program	:MA(Eco		cogram: PG II year  Class :MA(Economics) Semester - II		ear S	Session: 2025-26	
	***	Subjec	t: Economics				
1	Course Code		Eco- 103				
2	Course Title	Co	omputer Application	ı for Eco	nomic Analysis		
3	Course Type Course/ Disci Specific Elect	pline	Core Co	ourse -(C	C -22)		
4	Pre-requisite	- 1	study this course, a sbject in Degree.	student m	ust have had this		
		Op	en for all				
5	Course Learn outcomes (CL	_	On successful completion of this cour students will be able to:		s course, the		
			CLO 1. Master data	ı managen	nent and		
			manipulation.				
			CLO 2. Apply statis	stical anal	ysis techniques.		
			CLO 3. Implement	data visua	lization tools.		
			CLO 4. Utilize R pr	•	•		
			CLO 5. Work with a (SPSS)	dvanced s	statistical software		
6	Credit Value		5	credits			
7	Total Marks	Ma	x. Marks: 40 + 60	Min.	Passing Marks:35		
	1	Part B- Con	tent of the Course				
Γotal No.	of Lectures-Tut	orials-Practical (i	n hours per week):	L-T-P: 50	)		
Unit	Topics			<del></del>	No. of Lectures		
					(1 Hour Each)		
Unit 1	MS-Excel: Intr	oduction, Features	of MS-Excel, Work	sheet,	10		
	Workbook, Cel	l Pointer, Cell Ran	ige, Cell address, Nar	ne Box,			
	_L		<del>-  </del>	<del></del>			

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Function Bar, insert function, Functions-Date, Time, DAY, TODAY, VLOOKUP, HLOOKUP, Basic Statistical Functions-Sum, Average, Max, Min, Count, Insertion of charts, wrap text, merge & Centre.

#### Unit Activity:

- 1. Worksheet & Workbook Basics:
  - Create a new workbook and rename 3 worksheets as "Sales,""Expenses," and "Summary."
  - Enter sample data (e.g., product names, monthly sales, costs) using cell ranges (A1:D10).
  - Use Merge &Center to create a header titled "2024 Sales Report."
- 2. Formulas & Functions:
  - Apply SUM, AVERAGE, MAX, and MIN to calculate total sales, average costs, and highest/lowest values.
  - Use TODAY() and DAY() to auto-populate the current date and extract the day from it.
  - Create a VLOOKUP table to find product prices from a reference list.
- 3. Charts & Formatting:
  - o Insert a Column Chart to visualize monthly sales data.
  - Use Wrap Text for lengthy product descriptions and adjust column widths.

**IKS Activity:** Discuss the use of binary methods in development of IT.

UNIT 2

MS- Excel: Data Validation, Import Procedure of Data Analysis Tab, Hypothesis, T-test, Measures of central tendency (Mean, Median, Mode), Correlational Analysis, Linear Regression,

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What-if-Analysis- Goal Seek, Scenario Manager, Data Table. Unit Activity: 1. Data Validation & Import: Set Data Validation rules to restrict entries in the "Region" column (e.g., "North,""South,""East,""West"). o Import a CSV file into Excel using the Data Analysis ToolPak. 2. Statistical Analysis: o Calculate Mean, Median, and Mode for a dataset (e.g., student scores). Perform a T-Test to compare average sales between two regions. Use Correlational Analysis to find relationships between advertising spend and sales. 3. What-If Analysis: o Apply Goal Seek to determine the required sales to achieve a profit target. Create scenarios using Scenario Manager (e.g., "Best Case,""Worst Case"). Unit 3 10 R Programming: Introduction, Features of R, R Studio, Installation of R, R. Basic Syntax, R Packages, Basic Algebra, Vectors, Operators, Data Types, String, Matrices, lists, Data Frame, Sorting, R, Charts & Graphs, Arrays, Factors, Built-in functions- abs, sqrt, ceiling, trunc, round, floor, seq, rnorm, print, log(x), exp(x). Unit Activity: 1. Setup & Syntax: o Install R and RStudio. Write a script to print "Hello, R!" and perform basic algebra (e.g., 5<sup>3</sup>  $+ \operatorname{sqrt}(25)$ ). 2. Vectors & Matrices: Create a numeric vector of temperatures (e.g., temp <- c(22, 25, 19, 30)).Build a matrix of student marks and

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	use rowSums() to calculate totals.	
	3. Functions & Data Frames:	
	<ul> <li>Generate a sequence of numbers using seq() and</li> </ul>	
	round decimals with floor(), ceiling(),	
I I	and trunc().	
	<ul> <li>Create a data frame for employee details (Name,</li> </ul>	
	Age, Salary) and sort it by salary.	
	4. Visualization:	
	o Plot a bar chart for monthly sales data using R's	
	built-in functions.	
Unit 4	SPSS: Introduction, Features of SPSS, Uses of SPSS,	10
	Installation of SPSS, Qualitative & Quantitative data, Variables	
	- Nominal, Ordinal, Ratio, Interval, Method of preparing	
	datasheet and entering data according to its characteristics,	
	Importing MS- Excel file in SPSS.	
	Unit Activity	
	SPSS Setup & Data Types:	
	<ul> <li>Install SPSS and create a new dataset. Define</li> </ul>	İ
	variables (e.g., Nominal: Gender, Ordinal:	
	Education Level).	
	2. Data Entry & Import:	
	<ul> <li>Prepare a datasheet for survey responses (e.g.,</li> </ul>	
	Age, Income, Satisfaction Score).	
	<ul> <li>Import an Excel file (e.g., "Customer_Data.xlsx")</li> </ul>	
	into SPSS.	
	3. Variable View vs. Data View:	
	<ul> <li>Adjust variable properties (e.g., labels,</li> </ul>	
	measurement scales) in Variable View.	
Unit 5	SPSS: Use of various statistical tools on SPSS, t-Test, Chi	10
	Square test, functions to estimate descriptive statistics	
	Frequency, Measures of central tendency and variation (Mean,	

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Mode, Median).

#### Unit Activity:

- 1. Descriptive Statistics:
- Run Frequency Analysis for categorical data (e.g., product categories).
- Calculate Mean, Median, and Mode for a numeric variable (e.g., monthly income).
- 2. Hypothesis Testing:
- Perform a Chi-Square Test to check associations between gender and product preference.
- Conduct an Independent Samples T-Test to compare employee performance across departments.
- **3.** Data Visualization:
- Generate a Pie Chart to show the distribution of survey responses.

Keywords/Tags: Excel, R, SPSS, Data Analysis

#### Part C-Learning Resources

#### Text Books, Reference Books, and Other resources

- 1. Microsoft Office Excel 2007 step by step: Frye, PHI, MS Office: Sanjay Saxena, Vikas Publishing House, Mahoney, M. (2019).
- 2. Introduction to Data Exploration and Analysis with R, Performing Data Analysis using IBM SPSS, Lawrence S. Meyers, Glenn C. Gamst, A. J. Guarino, Wiley Publication.
- 3. SPSS for Windows Step by Step A Simple Guide and Reference, Darren George and Paul Malley.
- 4. https://bookdown.org/mikemahoney218/IDEAR/ Phillips, N.D. (2018). YaRrr, The Pirate's Guide to R. https://bookdown.org/ndphillips/YaRrr/

Suggested equivalent online courses:

#### Part D-Assessment and Evaluation

#### **Suggested Continuous Evaluation Methods:**

Maximum Marks: 100

Continuous Comprehensive Evaluation (CCE): 40 Marks University Exam (UE):60 Marks

İ	Internal Assessment:	Class Test Assignment/Presentation	
ļ	Continuous Comprehensive		40
	Evaluation (CCE)		40



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Section (B): Short Questions	60
Section (C) :Long Questions	

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#### 3. Financial Institutions & Markets

# Theory Paper 3

				Jupers		
		Pa Pa	rt A Intro	duction		
Program: Advance Class: N			1. A.	Year: I		Session: 2025-26
Diploma in Economics (CBCS)			Semester: II			
		Su	bject: Ec			<u> </u>
1	Course Code		1			···
2	Course Title		†·	Financial Inst	itutions a	& Markets
						a markets
3	Course Type (C			Core	e - CC -2.	3
		Course/ Discipline				
	Specific Electiv	<del></del>				
4	Pre-requisite (if	fany)	To study	this course, a st	udent mu	st have had this
				n Degree.		
				-		
	1		Open for	ail.		
5	Course Learnin	σ	On succe	esful completi		2011
-	outcomes (CLO	_	studente	essful completion will be able to:	on of this	course, the
	outcomes (CEO	,				Al
				essful completion will be able to:		course, the
		i	students	will be able to:		
			CLO 1 Understand the fundamental structure and			
			functions of the Indian Financial System.			
			CLO 2 Explain the characteristics and prerequisites for a well-functioning financial system.			
				Identify and ana		
				Indian Financia		
			CLO 4 C	omprehend the	evolution	and different
			segments of Indian Financial Markets.			
			CLO 5 Analyze the role and importance of financial			
			markets in	the economy.	pv1	v vi ilimitial
					wledge o	f the Indian Money
			Market.	ин пгасри кио	wienge 0	i me maian Money
				.1 .		
			CLO 7 Assess the impact of technological			
			developments on Indian Financial Markets.			
				CLO 9 Coin Impact 1 Cd		
	] '		CLO 8 Gain knowledge of the structure and functioning of Foreign Exchange Markets.			
			Tunctionin	g of Foreign Ex	cnange M	larkets.
		1				
6 Credit Value				<del></del>		<del></del>
6_	Credit value	I			5	



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Part B- Content of the Course  Total No. of Lectures-Tutorials-Practical (in hours per week):  L-T-P: 50				
Unit	Topics	No. of Lectures		
I	Indian Financial System and major Institutions:	08		
	Structure of Indian Financial System: An overview of the Indian financial system, Introduction of financial system, Functionsofthe Financial System, Structure and Characteristics of Financial system, Prerequisites of a Financial System, Players inthe Financial System, This is the foundational text for ancient Indian economics and statecraft. It provides details on currency, taxation, state finance, interest rates, trade, and even early forms of administrative regulation. Essential for understanding the economic thought of ancient India.			
	Major reforms in the last decade: Payment banks, monetary policy and restructuring, Regulatory Institutions in India: RBI, SEBI, IRDA, PFRDA. Describe Hundis as indigenous credit instruments used for remittance and trade finance across vast distances. This highlights the concept of credit, transfer of funds, and reduction of risk, which are core functions of a financial system. This can be an "Indian Knowledge System" equivalent of a modern financial instrument.  Commercial Banking: Role of Banks, corporate banking, Core banking solution (CBS), Arthashastra acknowledges the concept of interest (vriddhi) and even discusses different rates for various types of loans and borrowers, showing an early understanding of the time value of money and risk.			
	Non -Banking Finance Companies: NBFCs Introduction and its types; Services Provided by NBFCs, comparison between Banks and NBFCs, Growthof NBFCin India.			
	Unit Activity:  Structure Diagram Creation: Draw a hierarchical diagram illustrating the structure of the Indian Financial System (e.g., Regulators at the top, then Financial Institutions and Markets, with sub-categories under each).  Unit Activity			
	<ul> <li>Create a chart illustrating the regulatory framework for NBFCs in India, primarily focusing on the role of the RBI. Include different categories of NBFCs and any variations in their regulation.</li> </ul>			

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II	Introduction of Financial Markets & Products:	10
	Evolution of the Financial Markets, Segments of Financial	
	Markets, Types of Financial Products- Types of Shares, Bonds,	
	Mutual Fund, Insurance etc Stages in the Development of	
	Financial Products, Role of Financial markets, Market Efficiency.	
	Efficiency.	
	Unit Activity	
	Market Segmentation Chart: Develop a visual chart	
	illustrating the different segments of financial markets (e.g.,	
	Money Market vs. Capital Market, Primary vs. Secondary).	
	Under each segment, list examples of relevant instruments and participants	
	Foreign Exchange Markets:	
	Introduction to Foreign Exchange Markets, Structure of Foreign	
	Exchange Markets, Types of transactions and settlement.	
	Unit Activity	
	> Create a detailed mind map starting with "Foreign Exchange	
	Markets." Branch out to "Introduction,""Structure,""Types of	
	Transactions," and "Settlement." Within each branch, add key	
	concepts, participants, and examples	
III	Money Market:	10
	Introduction to Money Market, Characteristics and functions,	
	Development of moneymarketinIndia: The Hundi system	
	served as a vital instrument for short-term credit, remittances,	
	and exchange, enabling merchants to access funds and settle	
	transactions across vast distances without physical movement of cash.	
		ļ
	Money Market instruments-T-bills, Commercial Papers, Certificates of deposits, call money markets, Repo-purchase and	
	Councates of deposits Teal money markers, Kenn-nurchase and	
	factors affecting their growth: Fogus on Commercial	
	factors affecting their growth: Focus on Commercial	
	factors affecting their growth: Focus on Commercial Papers/short-term instruments): "The concept of instruments	
	factors affecting their growth: Focus on Commercial Papers/short-term instruments): "The concept of instruments for short-term borrowing and lending is not entirely new to India.	
	factors affecting their growth: Focus on Commercial Papers/short-term instruments): "The concept of instruments for short-term borrowing and lending is not entirely new to India. The Hundi, in its various forms (e.g., Darshani Hundi for demand payments, Muddati Hundi for time-bound payments),	
	factors affecting their growth: Focus on Commercial Papers/short-term instruments): "The concept of instruments for short-term borrowing and lending is not entirely new to India. The Hundi, in its various forms (e.g., Darshani Hundi for demand payments, Muddati Hundi for time-bound payments), acted as a primitive form of commercial paper, allowing	
	factors affecting their growth: Focus on Commercial Papers/short-term instruments): "The concept of instruments for short-term borrowing and lending is not entirely new to India. The Hundi, in its various forms (e.g., Darshani Hundi for demand payments, Muddati Hundi for time-bound payments), acted as a primitive form of commercial paper, allowing merchants and even rulers to raise short-term finance against	
	factors affecting their growth: Focus on Commercial Papers/short-term instruments): "The concept of instruments for short-term borrowing and lending is not entirely new to India. The Hundi, in its various forms (e.g., Darshani Hundi for demand payments, Muddati Hundi for time-bound payments), acted as a primitive form of commercial paper, allowing merchants and even rulers to raise short-term finance against future obligations. These instruments were a crucial component	
	factors affecting their growth: Focus on Commercial Papers/short-term instruments): "The concept of instruments for short-term borrowing and lending is not entirely new to India. The Hundi, in its various forms (e.g., Darshani Hundi for demand payments, Muddati Hundi for time-bound payments), acted as a primitive form of commercial paper, allowing merchants and even rulers to raise short-term finance against future obligations. These instruments were a crucial component of India's pre-modern 'money market,' facilitating transactions,	
	factors affecting their growth: Focus on Commercial Papers/short-term instruments): "The concept of instruments for short-term borrowing and lending is not entirely new to India. The Hundi, in its various forms (e.g., Darshani Hundi for demand payments, Muddati Hundi for time-bound payments), acted as a primitive form of commercial paper, allowing merchants and even rulers to raise short-term finance against future obligations. These instruments were a crucial component	

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	Money market and its linkage with Monetary Policy.	
	Unit Activity	
	For each function of the money market (e.g., providing liquidity, facilitating trade finance, implementing monetary policy), find a real-world example or a hypothetical scenario illustrating how that function operates in India.	
IV	Capital Market:  When discussing the functions of a capital market (e.g., capital formation, resource allocation, price discovery, wealth creation, risk sharing), briefly introduce how ancient Indian texts conceptualized wealth, economic activity, and the importance of ethical conduct in accumulating and managing resources.  "While modern capital markets are a relatively recent phenomenon, the underlying principles of wealth creation, investment, and resource allocation have been contemplated in Indian thought for millennia. Ancient texts like the Arthashastra discuss the importance of capital accumulation for the state and individuals, and the Dharmashastras lay down ethical guidelines for economic transactions, including lending and borrowing, emphasizing fairness and the rejection of usury."  Introduction to Capital Market, Characteristics and functions, Development of Capital market in India, Primary and Secondary Capital markets, Role of SEBI in regulation of the Capital Markets, Reforms in the Capital Markets, Capital Market instruments, Classification of Stock Markets, IPO, Stock Exchanges, etc	
	Unit Activity  ➤ Construct a detailed mind map starting with "Indian Capital Market."  Branch out to "Characteristics,""Functions,""Development,""Primary Market,""Secondary Market,""Role of SEBI,""Reforms," and "Instruments." Populate each branch with specific details and examples	
V	Technology and the Markets and Other Fin-Tech Innovations Technological developments in financial markets; both money and capital markets specially after post reform period: Ancient India, preceding modern Fin-Tech, developed key "technologies" crucial for commerce. The decimal system and zero revolutionized complex calculations and accounting for trade and treasuries. Additionally, the Bahi-khata system (early double-entry bookkeeping) and the Hundi system for payments and	10

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credit were indigenous financial innovations. These advancements demonstrate a long-standing Indian tradition of creating efficient systems to manage economic flows, laying groundwork for today's financial market technologies. Impact of Technology the Market. On-Line Trading, Clearing & Settlementsystem, Technology and payment Sys tem, Technologyandglobalmarket. Roleof E-Commerce development of Financial Markets.

#### **Unit Activity**

➤ If available, use online trading platforms (even demo accounts) to understand the mechanics of online order placement, execution, and market data access. Focus on how technology facilitates this process

Keywords/Tags: Financial Institutions, Financial Markets, Stock exchange, SEBI, Capital market, Money Market

#### Part C-Learning Resources

#### Text Books, Reference Books, Other resources

#### Suggested Readings:

- 1. Bhole, L.M. (1999), Financial Institutions and Markets, Tata McGraw Hill Company Ltd. New Delhi.
- 2. Bhole, L.M. (2000), Indian Financial System, Chugh Publications, Allahabad.
- 3. Johnson, H.J. (1993), Financial Institutions and Markets, McGraw Hill, New York.
- 4. Machiraju, M.R. (1999), Indian Financial Systems, Vikas Publishing House, New Delhi.
- $5. \ Ohlson, J.A. (1987), The Theory of Financial Markets and Institutions, North Holland, Amsterdam.\\$
- 6. Prasad, K.N. (2001), DevelopmentofIndia's Financial System, Sarup & Sons, New Delhi.
- 7. Mith, P.F. (1978), Moneyand Financial Intermediation: The Theoryand Structure of Financial System, Prentice Hall, Englewood-Cliffs, New Jersey.
- 8. Chandra, P. (1997), Financial Markets, (4th Edition), Tata McGraw Hill, New Delhi.
- 9. Machiraju, H.R. (1997), International Financial Markets in India, Wheeler Publishing, Allahbad.
- 10. Fenstermaker, J.V. (1969), Readings in Financial Markets and Institutions, Appleton, New York.
- 11. Gupta, S.B. (1983), Monetary Economics, S. Chand & Company, New Delhi.
- 12. Bhatt,R.S.(1996),UnitTrustofIndiaandMutualFunds:AStudy,UTIInstituteofCapitalMarkets,Mumbai.
- 13Sahadevan, K.G. and M.T. Thiripalraju (1997), Mutual Funds, Prentice HallofIndia, New Delhi.
  - 14. Goss, B.A. and B.S. Yamey (1978), The Economics of Futures Trading, Macmillan, London.
  - 15. Gupta, L.C. (Ed.) (1999), India's Financial Markets and Institutions, Society for Capita IR esearch and Development, Delhi.
  - 16. Crocker, A. (1982), International Money; Issues and Analysis, The English Language Book Society, Nelson, London.

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#### Suggested equivalent online courses:

- 1. Capital Markets Professional Certificate by NISM
- 2. Introduction to Capital Markets by Corporate Finance Institute (CFI):
- 3. Swayam (Government of India Platform):
- 4. IIMBx: Introduction to Banking and Financial Markets 1 by Indian Institute of Management

# General References for IKS in the Syllabus (To be added at the end of the syllabus as a "Suggested Readings on Indian Knowledge Systems"):

- 1. **Bhagavad Gita:** Concepts of diversity, different paths, and the importance of adapting means to ends.
- 2. L.C. Jain, *Indigenous Banking in India* (1929): Chapters on the Hundi system and its functions.
- 3. T.V. Mahalingam, Economic Life in Ancient India (1940s): Discusses trade and financial practices.
- 4. Kangle, R. P. (Trans.). (1960). *The Kautiliya Arthasastra* (Parts I, II, III). University of Bombay. (Alternatively, L. N. Rangarajan's translation is also widely cited).
- 5. S. Ambirajan, Classical Political Economy and British Policy in India (1978): Provides context on indigenous financial instruments during British rule.
- 6. Various academic papers on "Hundi system" or "Indigenous Banking in India": Can be found in economic history journals.
- 7. **Kautilya's Arthashastra:** Specifically sections on 'Treasury and Sources of Revenue' (Book II, Chapters 6-12) and 'Commerce' (Book IV, Chapters 1-2).
- 8. R.P. Kangle, *The Kautilya Arthashastra* (Translation with critical study): For detailed understanding of Kautilya's economic principles.
- 9. Maity, S. K. (1970). Early Indian Coins and Currency Systems. Munshiram Manoharlal Publishers. (While focused on coins, it discusses their economic role).
- 10. Prakash, Om. (1987). The Dutch East India Company and the Economy of Bengal, 1630-1720. Princeton University Press. (While later, it touches upon traditional banking practices like Hundis in the context of trade).
- 11. Singh, Sahana. (2017). The Educational Heritage of Ancient India: How an Ecosystem of Learning Was Laid to Waste. Routledge. (Excellent for understanding the broader IKS context).
- 12. Kak, Subhash C. (Various works). A prominent scholar on ancient Indian science, astronomy, and mathematics. Look for his books and articles that provide insights into broader IKS.
- 13. **Kapoor, Kapil (Editor).** (Various volumes). *Indian Knowledge Systems: Vol. 1 & 2.* D.K. Printworld. (A comprehensive collection of essays by various scholars, some might touch upon economic thought).
- 14. Mishra, R.S. (2009). *Indian Financial System*. S. Chand Publishing. (While modern, some editions might have introductory chapters on historical context).
- 15. **Dharampal.** (1992). Indian Science and Technology in the Eighteenth Century: Some Contemporary European Accounts. Biblia Impex Private Limited. (For understanding indigenous knowledge before colonial disruption).
- 16. Ministry of Education, Government of India. National Education Policy (NEP) 2020.

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- (Refer to sections on IKS integration, as it provides a contemporary policy perspective).
- 17. **Kautilya's Arthashastra:** For references to systematic record-keeping, treasury management, and accounting principles. (e.g., Book II, Chapter 7, "Examination of the Accounts").
- 18. "History of Accounting in India: From 'Bahi-Khata' to Modern AI" (Suvit.io article): Discusses the Bahi-khata system as a precursor to double-entry bookkeeping.
- 19. L.C. Jain, *Indigenous Banking in India* (1929): For detailed insights into the mechanics and reach of the Hundi system.
- 20. Academic works on the history of Indian mathematics and science: For the impact of the decimal system and zero on computational abilities relevant to commerce. (e.g., studies on Aryabhata, Brahmagupta)

Part D-Assessment and Evaluation					
<b>Suggested Continuous Evaluation</b>	Methods:				
Maximum Marks: 100					
Continuous Comprehensive Evaluati	on (CCE): 40 Marks University Exam (UE): 6	0 Marks			
Internal Assessment: Continuous   Class Test Assignment/Presentation					
Comprehensive Evaluation (CCE)		40			
External Assessment:	Section(A): Very Short Questions				
University Exam Section	Section (B): Short Questions	60			
Time: 03.00 Hours	Section (C): Long Questions				
Any remarks/ suggestions:					

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# **Theory Paper**

#### 4. Statistics for Economics

Part A Introduction						
Program: Advance Diploma in Economics Semester		•	Year: Ist Year	Session: 2025-26		
1	Course Code			Eco - 10	)3	
2	Course Title		Statistics for Economics(CC - 24)			
3	Course Type (Core Course/ Discipline Specific Elective/)		Core Course			
4	4 Pre-requisite (if any)		To study this course, a student must have had this subject in Degree.			
				Open for all		
5	5 Course Learning outcomes (CLO)		On successful completion of this course, thestudents will be able to:			
			media on for distrib CLO pheno (Bino CDFs quanti CLO numbe trackin like be inflati CLO econo Spear regres interpro CLO limitat econo on the cono contract of the cono contract of the cono contract of the cono contract of the conor cono	iptive statistics (arithman, quartiles, dispersion and ational concepts to butional symmetry.  2. To model real-worked mena with probability mial, Poisson, Normally, and measures like explify uncertainty.  3. To construct and refers (price, quantity, cosing economic trends, in ase shifting and deflation and structural changed. To analyze relations mic variables using comman) and predict outco sion models, extending retation to forecast trends. To critically evaluate ions of mathematical/smics, integrating knownies, and prediction to in	n, skewness), building assess variability and deconomic distributions), leveraging PDFs, pectation/variance to fine index st-of-living) for corporating techniques on to adjust for ges. This between rrelation (Pearson, mes through ginsights from data ads. The utility and statistical tools in ledge from modeling,	



for the drawn

		practical decision-making.			
6	Credit Value  Total Marks		5		
7			Max. Marks: 40 + 60	Min. Pas	sing Marks:35
		Part B-	Content of the Course		
Total	No. of Lec	tures-Tutorials-Pra	actical (in hours per week):I	-T-P: 50	
Unit		Topics			No. of Lectures
					(1 Hour Each)
Unit 1		scope and uses of s data: Quantitative Scales of measure Ratio; Presentation such as Bar Diagra Ogive etc.	e Data - Data Presentation: Statistics in Economics; Class and Qualitative; Attributes, ement: Nominal, Ordinal, In as: Tabular and Graphical pam, Line Diagram, Pie Chart, ing 5 Data Sets from on Excel	sification of Variables, nterval and resentation, Histogram,	6
Unit 2 Frequency		Frequency Dist	ribution, Measures of tile, Dispersion and Skewne		12
	ĺ	Average – Mean	requency Distribution,Ma (Arithmetic Mean, Geomet s – Median and Mode; Quarti	ric Mean);	
		=	persion– Range, Inter-Quar Mean deviation, Variance an s.	•	
	į	•	sing a dataset from RBI res of dispersion of at least 5 v		
Unit 3		Index Numbers			6
		Index numbers, Th	elication and problems in consider chain index numbers, Baindex numbers, cost of livers.	se shifting	
			lia's Industrial Production I e base year. The governmen	` ′	

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	shift the base to 2017. Rebase the index to 2017. Convert the 2010–2023 series to the 2017 base.	
Unit 4	Correlation and Regression	12
	Correlation Analysis: Karl Pearson coefficient of correlation, Spearman's rank correlation, and concept of probable Error.  Regression Analysis: Concept, Regression lines, regression coefficients, equations and prediction.  Unit Activity: Using the appropriate variables from RBI dataset, find the any 3 pairs of correlated variables and	
Unit 5	interpret the results.  Probability and Probability Distributions	14
	Probability Theory: Probability concepts; Axiomatic probability: laws of probability, conditional probability and independence; Random variable; Expectation; Discrete and continuous probability distributions, CDF and PDF of Binomial, Poisson and Normal distributions.	17
	IKS: Probability in Ancient India(Raju, C. (2011).)	
	Unit Activity: Collect a sample of 7 data points on the marks obtained in class 12 <sup>th</sup> from your class, and make a sampling distribution of the sample means obtained. And check how many z scores away was your sample from the mean.	

**Keywords/Tags:** Model, Sets, Functions, Descriptive Statistics, Mean, Median, Mode, Index Numbers, Correlation, Regression, Skewness, Standard Deviation, Probability Distribution, Theoretical Probability.

#### Part C-Learning Resources

#### Text Books, Reference Books, Other resources

#### **Suggested Readings:**

- 1. Chiang, A. C. "Fundamental Methods of Mathematical Economics," Mc Graw-Hill, New York, 1984.
- 2. Gupta, S.C. and Kapoor, V.K. (1997) Fundamentals of Mathematical Statistics. Sultan Chand and Sons, New Delhi, 11.23-12.23.
- 3. Gupta, S. P. "Statistical Methods," Sultan Chand and Sons, New Delhi, 2000.
- 4. Raju, C. (2011). Probability in Ancient India. In *Elsevier eBooks* (pp. 11751195). https://doi.org/10.1016/b978-0-444-51862-0.50037-x

Suggested equivalent online courses:

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#### Part D-Assessment and Evaluation

#### **Suggested Continuous Evaluation Methods:**

Maximum Marks: 100

Continuous Comprehensive Evaluation (CCE): 40 Marks University Exam (UE):60 Marks

Internal Assessment: Continuous Comprehensive Evaluation (CCE)	Class Test Assignment/Presentation	40
External Assessment :	Section(A): Very Short Questions	
University Exam Section	Section (B): Short Questions	60
Time: 03.00 Hours	Section (C):Long Questions	

Any remarks/ suggestions:

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