## Department of Economics D.D.U. Gorakhpur University, Gorakhpur

4 Year UG rom 2024-25

> Minutes of the meeting of Board of Studies for Under Graduate Economics was held on 28/02/2024 at 11.30 am in the Dept of Economics, D.D.U. Gorakhpur University, Gorakhpur.

The following members were present:-

1.	Prof. Sandeep Kumar	Convener	Head, Department of Economics, D.D.U. Gorakhpur University, Gorakhpur	
2.	Prof. S. N. Chaturvedi	N. Chaturvedi External Ex. Head, Department of Economics & Former 6  Member Faculty of commerce, MGK Vidyapeeth, Varana		
3.	Prof. K.R. Tripathi	Member	Department of Economics, D.D.U. Gorakhpur University, Gorakhpur	
4.	Prof. A.K. Goyal	Member	Department of Economics, D.D.U. Gorakhpur University, Gorakhpur	
5.	Dr. R.K. Gupta	Member	Department of Economics, D.D.U. Gorakhpur University, Gorakhpur	
6.	Dr. A.K. Sharma	Member	1 Department of Economics, D.D.U. Gorakhpur University, Gorakhpur	
7.	Dr. S.K. Gupta	Member	Department of Economics, D.D.U. Gorakhpur University, Gorakhpur	
8.	Dr. Rahul Srivastava	Member	Department of Economics, St. Andrwes College, Gorakhpur.	
9,	Dr. Poonam	Member	Department of Economics, DAV PG College, Gorakhpur.	
10.	Dr. Rakesh Kumar Ojha	Member	per Department of Economics, Mahavidyalaya Bhatwali Bazar, Unwal, Gorakhpur.	
11.	Mr. Manish Kumar	Member	Department of Economics, Ramji Sahay PG College, Rudrapur, Deoria.	

## Agenda of the Meeting:

- 1. Approval of the Minutes of the meeting held on 19/08/2023.
- 2. Discussion on course structure and syllabi of Economics for Four Years UG Programme.
- 3. Discussion on an ability enhancement course offered by the department for UG students.

## Board Unanimously Resolved that:

- Minutes of the meeting held on 19/08/2023 be approved.
- 2. Course structure and syllabi of Four Years UG Programme be approved.

3. Proposed Ability Enhancement Course titled as 'Elementary Statistics: Techniques and Applications' be approved.

## Ability Enhancement Course

## **Elementary Statistics: Techniques and Applications**

Course Code: ECO 001

Credit: 02

#### Course Outcomes:

CO 1. Enables the student to understand the various methods of statistical analysis such as measure of central tendency, measure of dispersion.

CO 2. Enables the student to understand the correlation analysis.

Unit	Topics .
1	Statistics: Introduction, Data Classification, Tabulation of Data, Representation of Data-Graphic and Diagrammatic
11	Measures of Central Tendency: Mean, Median, Mode, (Meaning, Concept, properties & methods of measurement) and their Applications
111	Measures of Dispersion: Range, Mean Deviation, Quartile deviation, Standard Deviation, Coefficient of Variation, Lorenz Curve and their Applications
IV	Correlation Analysis: Concepts and Types, Karl Pearson's Correlation Coefficient and Spearman's Correlation Coefficient and their Applications

#### Books Recommended:

- Elhance, D.N.: Fundamentals of Statistics (Hindi Ed.)
- Agarwal, D.R.: Statistics for Economists, Vrinda Publications, New Delhi.
- Gupta, B.N.: Statistics (fourth edition), Sahitya Bhawan Publication, Agra (UP).
- Singh, S. P.: Sankhyiki Sidhant Avam Vyavhar (Statistics: Theory and Practice).
   S Chand & Company, New Delhi.
- Shukla, S. M. & Sahai, S. P.: Sankhyiki ke Siddhant (Principles of Statistics),
   Sahitya Bhawan Publication, Agra (UP)

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## Structure and Syllabi of Economics for Four Year UG Programme

This Four Year Programme is in accordance with ordinance of U G Four Year Programme Framework of the University. This Programme is designed for the students pursuing graduation with subject Economics in regular mode. The programme aims to inculcate economic thinking among the students in economic decision making by comprehending economic theory. It aims to develop analytical view point in the students about the economic behaviour of people. The objective is to nurture among student a view point of a socially responsible and ethical aware citizen. This under graduate programme will have 25 courses in 8 Semesters in 4 years. The detailed structure and syllabi is given below:

Year	Sem.	Course Code	Paper Title	Theory/Practical	Centi
1	1	ECO 101 F	Principles of Micro Economics	Theory	Grean
	11	ECO 102F	Principles of Macro Economics	Theory	6
2	III	ECO 2016	History of Economic Thought	Theory	- 6
•	IV	ECO 202F	Money, Banking and Public Finance	Theory	6
	V	ECO 301F	Economic Growth and Development	Theory	5
			Optional Course (Any One)	Theory	
	77.5	ECO 302 F	Environmental Economics	Theory	5
	V	ECO 303F	International Economics	Theory	5
	VI	ECO304₣	Indian Economy & Economy of Uttar Pradesh	Theory	5
3			Optional Course (Any One)		
	VI	ECO 305 F	Agriculture Economics	Theory	5
		ECO306 F	Elementary Mathematics	Theory	5
			4th Year UG (Honors)		
	VII	ECO-401 F	Advanced Microeconomics	Theory	4
		ECO-402F	Theory of Public Economics	Theory	4
		ECO-403 F	Indian Economy: Basic Issues	Theory	4
		ECO-404 F	Advanced Macroeconomics	Theory	4
			Elective (Any One Course to be se	lected)	
	VIII	ECO-405 <b>F</b>	Fundamentals of Statistics	Theory	4
		ECO-406 F	Industrial Economics	Theory	4
		ECO-407 <b>F</b>	Indian Finance	Theory	4
4		ECO-408 F	Modern Microeconomics	Theory	4
		ECO-409F	Fiscal Policy and Federalism	Theory	+
		ECO-410 <b>F</b>	Indian Industrial and External Sector	Theory	4
		ECO-411F	Modern Macroeconomics	Theory	4
			Elective (Any One Course to be se	lected)	
		ECO-412 F	Research Methodology	Theory	4
		ECO-413 F	Indian Economic Thought	Theory	4
		ECO-414 F	Indian Financial System	Theory	4





		4th	Year UG (Honors with Research)			
		ECO-401F	Advanced Microeconomics	Theory	4	
		ECO-402F	Theory of Public Economics	Theory	4	
	2000	ECO-403F	Indian Economy: Basic Issues	Theory	4	
	VII	ECO-404F	Advanced Macroeconomies	Theory	4	
			Elective (Any One Course to be	selected)		
		ECO-405F	Fundamentals of Statistics	Theory	4	
		ECO-406F	Industrial Economics	Theory	4	
		ECO-407F	Indian Finance	Theory	4	
		ECO-412 F	Research Methodology	Theory	4	
4			Research Project		12	
			Elective (Any One Course to be	selected)		
		ECO-408 F	Modern Microeconomics	Theory	4	
		ECO-409 F	Fiscal Policy and Federalism	Theory	4	
		VIII	ECO-410 F	Indian Industrial and External Sector	Theory	4
		ECO-411F	Modern Macroeconomics	Theory	4	
		ECO-413F	Indian Economic Thought	Theory	4	
		ECO-414F	Indian Financial System	Theory	4	
		ECO-415F	Elementary Econometrics	Theory	4	

Programme Specific Outcomes (PSOs)- Student after completing graduation will be able to learn-

PSO 1:	The behavioural patterns of different economic agents, advance theoretical issues and their applications.	
PSO 2:	Understand the basic concept of microeconomics.	
PSO 3:	Understanding basic concepts of Macroeconomics.	
PSO 4:	Acquaint with some basic statistical methods to be applied in economics.	
PSO 5:	Acquaint with some basic mathematical methods to be applied in economics.	
PSO 6:	Acquaint with some basic theoretical concept of public finance.	
PSO 7:	Acquaint with the measurement of development with the help of theories along with the Conceptual issues poverty and inequalities with Indian perspectives.	
PSO 8:	Delineate the fiscal policies designed for developed and developing economics.	
PSO 9:	Facilitate the historical developments in the economic thoughts propounded by different schools. To familiaris students with the contribution of Indian Economic Thinkers andthe relevance of their contribution.	
PSO 10:	Learn the basic concept of monetary analysis and financial marketing in Indian financial markets.	
PSO 11:	Learn the development issues of Indian economy.	
PSO 12:	Acquaint with some basic concept of environmental economics along with the solution of the environmental problems.	
PSO 13:	Learn the real and monetary sides of International economics.	
PSO 14:	Familiarise and acquaint with the characteristics of the economy of Uttar Pradesh.	
PSO 15:	To familiarize the students about issues of ethics in economic thinking and practice.	

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## BA 1<sup>st</sup> Year, Sem. I , Course I (Theory)

Course Co	ode: ECO-101F	Principles of Micro Economics	Credits:
Course Ou	itcome:		
CO I.	of demand and si	familiarized with basic concepts of microe apply and elasticity etc so that he/she can end ay today happenings.	conomics such as laws omprehend them &
CO 2.	The students learn and understand the concepts of consumer behaviour like cardinal utility and ordinalutility analysis.		
CO 3.	The students learn and understand application of Indifference curve analysis in deriving demand curves, priceeffect, income effect and substitution effect.		
CO 4.	The students lea	rn and understand the Theory of producti law of variable proportion.	ion- iso-quants, laws o
CO 5.	The students lear theory of cost.	n, understand and compare between the Tr	aditional and modern
CO 6.	Demonstrate an	understanding, usage and application of bas	sic economic principles.
CO 7.	10.0	ply the methods for analyzing consumer be	havior through demand
		ticity andmarginal utility.	
CO 8.	price, cost etc.	ehavioral patterns of different economic ag	
CO 9.		king process in different market situations	7 T T T T T T T T T T T T T T T T T T T
CO 10.		nopolistic competition, monopoly and oligo advance theoretical issues and their practic ries	
- CO 11.		ium, economic efficiency and market failur	e.
Unit		Topics	
1	opportunity cos demand, determ demand curve, of supply versus demand, Metho	eaning of Economics, Problem of scarcity at t; production possibility frontier. Demand a finants of demand, shifts of demand versus market demand. Law of supply, determinants is movements along a supply curve. Elasticity ds of Measuring elasticity of Demand, det and elasticity and Cross elasticity.	and supply: law of movements along a nts of supply and shifts ty: price elasticity of
П	Consumer Theo paradox, Law o Consumer's equ of demand curv	ory: Concept of utility, diminishing margina f Equi Marginal Utility. Indifference curve illibrium. Price Effect: income and substitu e from indifference curve, Theory of Revea us, producer surplus.	s, Budget Constraint, tion effects; Derivation
Ш	Production Fun and Iso-cost line Cost Analysis: MC, LAC and I	ction: Meaning and types. Law of variable es, Return to Scale, Producer's equilibrium Costs in the short run and long run, Relati LMC. Revenue Analysis: Revenue and Prodiseconomies of scale, Relationship between	, Ridge Lines. ionship between AC and ofit maximizations,

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	Perfect Competition: Assumptions: Price and Output determination under perfect
IV	competition, Long run industry supply curve: increasing, decreasing and constant cost industries. Welfare: allocative efficiency under perfect competition.  Monopoly Firm: Assumptions: Price and Output determination. Concept of a supply curve under monopoly; Comparison of perfect competition and monopoly, Price Discrimination.
v	Monopolistic competition: Assumptions, Price and output determination under
	Consumer and Producer Theory in A sti
VI	Market Failure, Rationale of the Government of Market Failure, Sources of
****	Theory of Factor pricing: Concept of Mpp, Advantage latture.
vn	Wages: Determination of Wage, Profit Knight, Th
	The Compilies Concept & Definition of the con-
vin	Positive Economics. Concepts of Social Welfare Economics. Normative and Grand Utility Possibility Frontier, New Welfare Economics: Kaldor-Hicks Welfare Criterion. Social Welfare Function. Theories of Social Choice.

- 1. Ahuja ,H.L(2013): Advanced Economic Theory", S.Chand & Company. Shastri, Rahul, A (1999): Microeconomics", Orient Blackswan.
- Ahuja, H.L (2012) : Ucchatar Arthik Siddhant", S.Chand & Company, New Delhi.
- 3. Dwivedi, D.N (2011) :Microeconomics-Theory & Applications", Pearson.
- 4. Lal, S.N (2013):Arthshastra Ke Siddhant", Shiva Publishing House, Allahabad. Seth, M.L (2012): Arthshastra Ke Siddhant", Laxmi Narayan Publications, Agra
- 5. Lipsey, Richard & Chrystal, Alec (2011): Economics", Oxford University Press Publications, New Delhi.
- 6. Pindyck, Robert. S., Rubinfield. Daniel. L., Mehta. Prem. L (2009): Microeconomics", Pear
- 7. Salvatore, Dominic(2010): Principles of Microeconomics", Oxford University Press Publications, New Delhi.
- 8. Samuelson, Paul. A& Nordhaus, William. D(2010): Economics", Tata McGraw Hill Koutsoyiannis, A (2008) (2nded): Modern Microeconomics", Macmillan.
- Stonier, A. W& Hague. Douglas. C (2003)(5thed): A Text Book of Economic Theory", Pearson.

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## BA 1stYear, Sem. II, Course I (Theory)

Cours	e Code: ECO-102 F Principles of Macro Economics	Credits:6	
Course Ou	tcomes;		
CO I.	Students are able to explain national income, comprehend of national income, and concepts related to national income.	calculation methods	
CO 2.	Students are able to comprehend classical theory of employment and the Keynesian approach.		
CO 3.	Students are able to comprehend the concept of multiplier and	154	
CO 4.	Students are able to understand the relationship between infla	it's working.	
	saving and investment.	e such as consumption	
CO 6.	Students are able to analyze different phases of trade eye various trade cycle theories, understand the impact of cycli growth of business, and lay policies to control tradecycle.	le, demonstrate cal fluctuation on the	
Unit	Topics		
1	Introduction: Nature and Scope, Macro vs. Micro Econol Macroeconomics.		
u	Circular Flow of Income in Two, Three and Four-sector		
Ш	National Income Accounting: Concepts of GDP, GNP, N Market price and Factor Cost; Personal Income and Disp Accounting. Measurement of National Income: Income, I or Value Added Methods. Nominal and Real income.	osable Income, Green Expenditure, Product	
IV	Classical Theory of Employment, Say's Law of Markets, the Classical Theory; Aggregate Demand and Aggregate The Principle of Effective Demand; Keynesian Consump Average and Marginal Propensity to Consume.	Supply Functions; tion Function -	
v	Theory of Investment - Autonomous and Induced Investm Multiplier, Marginal Efficiency of Capital; Savings and In and Ex Ante, Equality and Equilibrium. Principle of Acce	vestment - Ex Post	
VI	Rate of Interest: Classical, Neo-Classical and Keynesian Liquidity Preference Theory	Rate of Interest: Classical, Neo-Classical and Keynesian Theories of Interest.  Liquidity Preference Theory	
VII IS-LM Analysis: Derivations of the IS and LM functions; IS-LM and Aggregate demand.			
VIII	Concept of inflation; determinants of Inflation; relati- inflation and unemployment. Deflation; Concept and App	onship between	

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- 1. Ackley.G (1976): Macroeconomics: Theory And Policy, Macmillan, New York.
- 2. Ahuja, H.L (2012): Macroeconomics: Theory and Policy, S. Chand & Company, New
- 3. Ahuja, H.L (2012): Samasti Arthshastra, S. Chand & Company, New Delhi.
- Lal, S.N (2012): Samastibhavi Visleshan, Shiva Publishing House, Allahabad.
- 5. Branson, W.A (1989): Macroeconomics Theory And Policy, Harper & Row.
- D.L (1969): Advanced Macroeconomics, McGraw Hill, New York.
- 7. Dornbusch, Rudiger&startz, Richard (2012): Macroeconomics, Tata McGraw Hill
- 8. Dwivedi, D.N (2010); Macroeconomics: Theory and Policy, Tata McGraw Hill
- 9. Gupta,R.D.&Rana,A.S (2009): Keynes post-Keynesian Economics, Kalyani Publishers, New Delhi&Ludhiana.
- 10. Hansen, A.H (1953): A Guide To Keynes, McGraw Hill.
- 11. Jhingan, M.L (2010): Macroeconomics , Vrinda Publications, New Delhi.
- 12. Jhingan, M.L (2012):SamastiArthshastra, Vrinda Publications, New Delhi.
- 13. Shapiro, Edward (2005): Macroeconomic Analysis, Galgotia Publications, New Delhi.
- 14. Sikdar, Saumyen (2011): Principles of Macroeconomics, Oxford University Press, New
- 15. Surrey, M.J.C (1976): Macroeconomic Themes, Oxford University Press. Romer,

## BA 2<sup>nd</sup>Year, Sem. III Course I (Theory)

Course Co	de: ECO-201F H	listory of Economic Thought	Credits:6
Course Out	comes:		
CO 1.	To learn and discuss, at an a has evolved over time.	dvanced undergraduate level, how the	economic thought
CO 2.	Introducing students to the schools of economics.	e critical comparison of the contribu	tions of the main
CO 3.	To introduce & highlight b	efore the students about Indian Econo	mic Thinkers and
	their valuable contributioning	the field of Economics.	
CO 4.	The classical, the marginaliand partial equilibrium, the and the Keynesian school.	ze revolution and its application to the current macroeconomic debate between	theories of general in the neo-classical
Unit		Topics .	
1	Early Period: Economic Thought.	thought of Plato and Aristotle.	Ancient Economic
11	Mercantilism: Main Cha Primacy of Agriculture, Economic ideas of Petty,	racteristics; Thomas Munn - Physiocra Social Classes, Tableau Economique, Locke and Hume.	icy: Natural Order, Taxation, Turgot -
m	Classical Period: Adam Accumulation, Distribut	Smith - Division of Labour, Theory ion, Views on Trade; David Ricardo, homas R. Malthus, & Theory of Gluts.	Distribution, Ideas
IV	German Romantics and	Socialists — Sismondi, Karl Marx — I of Value, Surplus Value, Profit, And T	Dynamics of Social
v	Marginalists; Gossen —	The Marginalist Revolution: Jevons, Vell and Fisher; Economic Ideas of Wicks	Walras and Menger steed and Weiser.
VI	Methods, Ideas on Con	thesizer: Role of Time in Price Determ sumer's Surplus, Elasticity, Represent onomics; Schumpeter Economic Ideas.	ative Firm, Quasi-
VII		Keynes: Consumption Function, Parado	
VIII	Economic thoughts of I Dayal Upadhyaya.	Kautilya, Gandhian Economics, J.K. M	lehta and Pt. Deen

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1. Bhatia, H.L: History of Economic Thought, Vikash Publishing House.

2. Blackhouse,R (1985): A History of Modern Economic Analysis, Basil Blackwell, Oxford.

- Ganguli, B.N(1977): Indian Economic Thought: A 19th Century Perspective, Tata Mcgraw Hill.
- 4. Hajela, T.N (2011): Aarthik Vicharon Ka Itihas, Ane Books.
- 5. Hajela, T.N (2011): History Of Economic Thought, Ane Books.
- 6. Hunt, E.K&Lautzenheiser, Mark (2011): History of Economic Thought: A Critical Perspective, Philearning.
- 7. Jhingan, M.L (2008): Aarthik Vicharon Ka Itihas , Vrinda Publications, New Delhi.
- Kautilya (1992), The Arthashastra, Translated And Introduced By L.N.Rangarajan, Penguin Books.
- 9. Loknathan, V (2009): History of Economic Thought, S.Chand& Company.
- 10. Roll, Eric: History of Economic Thaught, Faber.
- 11. Schumpeter, J.A(1954): Historyof Economic Analysis, Oxford University Press, New York.
- 12. Sinha, V.C (2011): Aarthik Vicharon Ka Itihas, Mayur Pu
- Staley, Charles, E, "A History of Economic Thought: From Aristole To Arrow", Blackwell Publishing.

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## BA 2<sup>nd</sup>Year, Sem. IV Course I (Theory)

Course C	Code: ECO-202F Money, Banking and Public Finance	Credits: 6	
Course Outc	omes:		
CO 1.		4.1	
<ol> <li>Understand simple concepts related with monetary economics and banking thee</li> <li>Correlate and apply to current events &amp; key models and concepts of monetary</li> </ol>			
	economics and bankingtheory.	of monetary	
CO 3.	Appreciate the potential importance of monetary phenomenon in	the accommu	
CO 4.	Treatment importance of monetary phenomenon in the economy.		
CO 5. Demonstrate the role of government to correct market failures and possible adv			
CO (	of public financing.		
CO 6.	Understand the possible burden, benefits and distribution of vario	us types of taxes	
	among various classes of people, know the general trend and impa	ict on general	
	welfare and arouse them to suggest good and bad taxsystem.		
Unit	Topics		
ı	Money - Meaning, Functions and Classification; Gresham's L in Capitalist, Socialist and Mixed Economies; Monetary Stand Paper Systems of Note Issue, Value of Money; Quantity Theo Transaction and Cash Balance Approaches; The Keynesian Ap	ards -Metallic and ry of Money - Cash	
n	Supply of Money: Definitions—Determinants of Money Supp Powered Money and Money Multiplier.	ly—High	
m	Functions of a Central Bank; Quantitative and Qualitative Met Control - Bank Rate Policy, Open Market Operations, Variable Selective Methods; Role and Functions of the Reserve Bank o Objectives and Limitations of Monetary Policy with Special R	e Reserve Ratio and f India; Tools,	
IV	Commercial Banking: Meaning and types; Functions of Comm process of Credit Creation - Purpose and Limitations; Liabiliti banks; Evolution of Commercial Banking in India after Indepe Reforms in Banking Sector in India.	nercial Banks; The es and Assets of	
v	Public Finance: Meaning and scope; Distinction between Private Finance; Public Goods Vs. Private Goods; The Principle of Manage.	ate and Public eximum Social	
VI	Public Expenditure: Meaning, Classification and Principle of I Canons and Effects of Public Expenditure; Trends in Public Ex Causes of Growth of Public Expenditure in India.	ependiture and	
VII	Sources of Public Revenue: Tax Revenue and Non-Tax Reven Meaning, Canons and Classification of Taxes; Division of Tax Benefit and Ability-To-Pay Approaches; Impact and Incidence Capacity; Effects of Taxation; Characteristics of A Good Tax	Burden — The of Taxes; Taxable System.	
VIII	Fiscal policy: Components, Instruments, Objectives. Role of F Developed and Developing Countries, Budget Structure of the India, State Budget-Sources of Revenues and Expenditures. M in India. The Role of Finance Commission.	Government of	

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Bagchi, Amaresh (2005): Readings in Public Finance, Oxford University Press.

Cullis, John & Jones Philip (2009): Public Finance and Public Choice, Oxford University

Eyler, Robert (2009): Money and Banking-An International Text, Routledge.

Gupta, Janak Raj (2011): Public Economics in India Theory and Practice, Atlantic.

 Gupta, S.B (2009): Monetary Economics-Institutions, Theory & Policy, S.Chand & Company, NewDelhi.

Head, J.C (1974): Public Goods and Public Welfare, Durham, NC, Duke University Press.

Inge Kaul, Pedro Conceicao (2006): The New Public Finance, Oxford University Press.

Jhingan ,M.L (2012): Monetary Economics , Vrinda Publications, NewDelhi.

Jhingan, M.L. (2012): Maudrik Arthshastra, Vrinda Publications, New Delhi.

Johansen, Life (1965) :Public Economics, Chicago: Rand Menally.

 Khanna, Perminder (2005): Advanced Study in Money and Banking: Theory and Policy Relevance in TheIndian Economy , Atlantic.

 Lal, S.N (2012): Mudra, Banking. Avam Videshi Vinimay . Publishing House, Allahabad.

Margolis.J&Guitton,H: Public Economies (1974), Memiillan.

Musgrave, R.A (1959). The Theory Of Public Finance, McGraw Hill.

Musgrave, R. A& P.B. Musgrave (1989): Public Theory: Theory & Practice, Mcgraw Hill.

Nadar, E. Narayanan (2013): Money and Banking, PHI Learning Press.

Paul, R.R (2011): Money, Banking & Exchange, Kalyani Publishers, Delhi.

## BA 3rd Year, Sem. V Course I

	(Theory)	
Course	Code: ECO-301FEconomic Growth and Development	Credits:5
Course O	outcomes:	
CO 1.	Students should be able to comprehend the concept and mean growth and economic development.	ing of economic
CO 2.	Students should be able to distinguish between economic grow	wth and economic

- development. CO 3. Students should be able to comprehend the issues and challenges in economic growth and development.
- CO 4. Students should be able to comprehend and explain the concept of poverty and human development & therelated concepts.
- CO 5. Students should be familiar with the approaches to development:
- CO 6. Students should be able to understand and explain the factors and variable of economic development.
- CO 7. Students are able to understand how international factors facilitate and impede economic development.

Unit	Topics		
I	Meaning and Measurement of Economic Growth and Development- Measuring Development and Development Gap, GDP, GNP, Per Capita Income, Factors affecting Economic growth and Development.		
П	Concept of Poverty and Inequality, Vicious circle of poverty, Lorenz Curve, Gini Coefficient. Concept of Human Development and Human Development Index, Quality of Life Indices: Physical Quality of Life Index,. Hunger Index, Happiness Index, Gender & Development. Concept of Sustainable Development. Millennium Development goals.		
Ш	Rosentein Rodan's theory of Big Push, Nelson's Low Level of Equilibrium Trap, Leibinstein. Theory Balanced vs Un-balanced growth, Rostow's stages of growth, Harrod and Domar Growth models.		
IV	Theory of Demographic Transition, Population as Limits to Growth. The Concept of Inclusive Growth- with Reference to India. Food Security, Education, He and Nutrition.		
v	Development & Underdevelopment: an Overview; The Characteristics and Explanations Of Underdevelopment-, Circular Causation, Dualism-Social, Technological, Financial, Organizational, Model of Dual Economy, Lewis, Ranis-Fei, Jorgenson, Dependency Theories of Underdevelopment.		
VI	Models of Technical Progress, Embodied and Disembodied Technical Progress, Neutral Technical Progress-Hicks, Harrod, Solow, Arrow's Learning by Doing Approach to Economic Growth.		
VII Endogenous growth, Intellectual capital, Role of Learning, Education and Rese Explanations of Cross country Differentials in Economic Growth,			
VIII	Role of Technology Transfer and Multinational Corporations for promoting of development in developing countries-with Reference to India.		

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- Basu, Kaushik (2010): Analytical Development Economics: The Less Developed Economy.
   Oxford University Press.
- Dasgupta, Dipankar: Growth Theory, Oxford University Press, 2007
- Ghatak, S., An Introduction to Development Economics. Allen and Unwin London, latest edition.
- Hayami, Y., Development Economics, Oxford University Press, New York, 2010 (5th Impression)
- Hayami, Yujiro & Godo, Yoshihisa (2005): Development Economics: From the Poverty to the Wealth of Nations, Oxford University Press.
- Hendrik Van Den Berg, Economic Growth and Development, McGraw-Hill International Edition, 2005
- Jhingan .M.L (2013): Economics of Development and Planning, Vrinda Publications, New Delhi.
- Jhingan ,M.L (2013): Vikas Ka Arthshastra Awam Niyojan, Vrinda Publications, New Delhi.
- Lal ,S.N (2012):Vikas, Niyojan Awam Paryavaran, Shiva Publishing House, Allahabad.
- Lekhi, R.K (2013): Economics of Development and Planning, Kalyani Publishers, New Delhi.
- Meier, G.M., Leading Issues in Economics Development, Oxford University Press, New Delhi, Latest edition.
- Mishra, S.K.&Puri, V.K (2012): Economics of Development and Planning, Himalaya Publishers, Mumbai.
- Ray Debraj, Development Economics, Oxford University Press, Latest Edition.
- Singh, Kartar & Shishodia (2007): Environmental Economics: Theory and Applications, SageIndia. Singh, S.R(2012): Environmental Economics, APH Publishing Corporation, Delhi.
- Somashekar, NT: Developmental Economics, New Age Publication (Latest edition)
- Taneja, M. L&Myer, R.M (2011): Arthshastra Ki Yojnaye Awam Vistaar, Visha Publishing Company Jalandhar (New Deihi).
- Thiriwall, A.P., Growth and Development with Special Reference to Developing Economies, Macmillan, UK, 1999.
- Todaro, Michael P & Smith, Stephen. C (2011): Economic Development, Pearson.

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## BA 3<sup>rd</sup> Year, Sem. V Course II (Optional) (Theory)

Course C	ode: ECO-302F Environmental Economics	Credits:	
Course Ou	itcomes:		
CO 1.	Students should be familiar with the basic concepts of economy.	ecology environment and	
CO 2.	Students to understand the solution to environmental problems- the command and control approach, market based methods, tax tradable pollution permit, etc. carbon trading		
CO 3.	Students should be familiar with the concept of Sust environmental impactassessment, Global and local environmental		
CO 4.	Students should be comprehend the Local Issues of E to environment &development.		
CO 5.	Students should realize the importance and influence o economy including the quality of manpower.	f environment on the	
CO 6.	Students should realize the importance to make clean	ner environment so as to	
CO 7.	achieve harmoniousdevelopment.  Students should comprehend that environmental problem is not the problem of a single country or region but a global problem/issue.		
CO 8.	Demonstrate an awareness of economic growth proble	ems, issues in globalisation.	
	and provide grounding inmajor growth strategies and of	development.	
Unit	Unit Topics		
I	Environmental Economics: Definition, Nature, Environmental Problems as Economic Problem, Environment-Development Trade-off, Environment-Economy Inter-relationship, Environmental functions for Economy, Environmental Crises.		
п	Pareto Optimality Conditions and Reasons of Market I and their Consequences, Social Optional Level of Poll	Failure, Externalities ution.	
ш	Limits to Growth: Concepts and Environmental Kuznets Curve, Sustainable Development: Concept, Approaches, Indicators of Sustainability, Indian Perspective- Sustainable Development Goals. Sustainable National Income, Ecological Footprint. Sustainable Industrialization		
IV	Environmental Regulation: Government Rationale for Regulation, Command Control Method: Liability laws, Emissions Standards, Allocation of Property Rights (Coasian Approach).		
v	Environmental Regulation: Market Based Instruments: Pollution Taxes, Environmental Subsidy, Marketable Pollution Permit System and their Applications.		
VI	Economic Valuation of the Environment: Market Price Approach, Hedonic Price Method, Travel Cost Approach, Defensive Expenditure Method, Contingent Valuation Method.		

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VII	WTO and Environment; Population, Poverty and Environment, Renewable and Non-Renewable Resources, Common Property Resources: Problems and Management, Valuation of The Environmental Projects, Cost benefit Analysis, and Environmental Impact Assessment.
viii	Global Environmental Problems & International Policy: Ozone Depletion, Acid Rain, Climate Change, Loss of Biodiversity, Environmental Issues and Challenges in India, Environmental Policy of India, Constitution & Environment, Environmental Ethics, Environment and Human Health.

- Bharucha, Erach : Paryavaran Adhyann, Orient Blackswan.
- Bhattacharya, Rabindra Nath (2002): Environmental Economics An Indian Perspective, OxfordUniversity Press.
- Eugine, T (2005): Environmental Economics, Vrinda publications, Delhi.
- Jhingan, M.L. & Sharma, C.K (2009): Environmental Economics Theory Mgt & Policy, Vrinda publications, Delhi.
- Kolstad, Charles. D (2012): Intermediate Environmental Economics, Oxford University Press.
- Nagre, Vijay. H (2012): Environmental Economics, Chandralok Prakashan.
- Singh, Kartar & Shishodia (2007): Environmental Economics: Theory and Applications, Sage India.
- Singh, S.R(2012): Environmental Economics, APH Publishing Corporation, Delhi.
- Smith, Stephen (2011): Environmental Economics: A Very Short Introduction, Oxford UniversityPress.
- Tripathi, Daya Shanker: Paryaavaran Addhyayan, Motilal Banarasidass Pvt Ltd.

## B A 3rdYear,Sem.V Course II (Optional)

(Theory) Credits: 5 Course Code: ECO-303F International Economics Course Outcomes: Students should be able to understand and explain the concept, need, significance CO 1. and scope of international economics. Students should be familiar with the approaches of international trade. CO 2. Students should be familiar with and are able to explain the economic integration CO 3. at the global level and theformation of groups. Students are familiar with the international organizations and their objectives. Students CO 4. should be able to analyse the importance and relevance of these international organizations. Unit Topics Need, Significance and Scope of International Economics. Earlier Trade Theories: Mercantilism, Classical Theories of Trade -Adam Smith, David Ricardo and Opportunity Cost Approach. Mill's Reciprocal Demand ı Analysis. Terms of Trade: Meaning and Concepts, Factors affecting Terms of Trade.; Gains from Trade, Factors Determining Gains from Trade. Offer Curve Analysis, Heckscher-Ohlin Theory, Leontief Paradox, Effects of 11 Growth on International Trade-: Concept of Immizerising Growth. Free Trade and Protection: Arguments For and Against Free Trade, Meaning of Protection, Arguments for Protection. Tools of Protection: Quantitative and III Non Quantitative Restrictions. Tariffs-Meaning Types and Effects of Tariffs; Non- Tariff Barriers-Meaning, Classification and Types. .Quota-Meaning, objectives, Types and Effects of IV Theories and Forms of Economics Integration-Meaning &Benefits; Forms of Economic Integration- Custom Union: Production and Consumption Effects V of Customs Union. Balance of Payments: Concepts. Concept of BoP Disequilibrium. Adjustment Mechanisms of Balance of Payments- Devaluation Method of Balance of VI Payments Adjustment, The Elasticity Approach, Marshall-Lerner Condition. Exchange Rate: Meaning, Foreign Exchange Rate Determination: Foreign Mint Par Parity Theory, Purchasing Power Parity Theory. Foreign Exchange VII Rate Policy: Fixed, Flexible & Multiple Exchange Rate System. Convertibility of Rupee in Current Account and Capital Account. International Financial Institutions-IMF, WORLD BANK, ADB; GATT, WTO- TRIPS &TRIMS, WTO and India;, UNCTAD, North-South Trade VIII

Dialogue, South-South Cooperation; Globalization; FDI.

The State of State

- Agarwal, Babita (2009): Antarrastriya Arthshastra, Omega Publications.
- Bhatia, H.L (2006): International Economics, Vikash Publishing House.
- Cherunilam, Francis (2008): International Economics" Tata McGraw Hill Education.
- Field, Alfred. J & Appleyard, Dennis. R (2013): International Economics, McGraw HillEducation.
- Gerber, James (2012): International Economics, Pearson.
- Jhingan, M.L. (2011): Antarrastriya Arthshastra, Vrinda Publications, New Delhi.
- Krugnan, Paul. R & obstfeld, Maurice (2008): International Economics, Pearson.
- Lal,S.N (2012): Antarrastriya Arthshastra, Shiva Publishing House, Allahabad.
- Mannur, H.G (2001): International Economies, Vikash Publishing House Pvt Ltd.
- Salvatore, Dominick (2012): International Economics: Trade & Finance, Wiley Publishers.
- Sinha, V.C., Sinha, Pushpa & Sinha, Vivek (2011): Antarrastriya Vyapar Avam Vitt, Mayur Publications.
- Vaishya, M.C. & Singh, Sudama (2006): International Economics, Oxford &IBH Publishing House, Delhi.

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# BA3<sup>rd</sup> Year, Sem. VI Course I

(Theory)

Course C	ode: ECO-304F Indian Economy and Economy of Uttar Pradesh Credits: 5			
Course O	utcomes :			
CO 1.	Students should be able families with the best of the state of the			
CO 2.	Students should be able familiar with the basic characteristics of Indian economy, Students should be able familiar with the it's potential on natural resources of Indian			
CO 3.	Students are able to understand the importance, causes and impact of population			
CO 4.	growth and its distribution, translate and relate them with economic development.  Students are able to develop an understanding about Uttar Pradesh, its demographic feature, natural resources and factors that can stimulate its economic growth and development.			
CO 5.	Students should be familiar with the rural development of Uttar Pradesh over the perio of time.			
CO 6.	Students should be familiar with the industrial development in India and in Uttar Pradesh.			
Unit				
1	Structure and Features of Indian Economy: Indian Economy Comparative Development of Indian States.			
11	Agricultural Sector: Institutional Reforms, Technological Change in Agriculture, Agricultural Policy, Policies for Sustainable Agriculture. Agrarian Crisis and Agricultural Labour.			
ın	Pattern of land-holding and irrigation; production and productivity in agriculture, Farm mechanization, Crop diversification, agricultural credit, Agricultural policy and strategies in Uttar Pradesh, Rural Development in Uttar Pradesh.			
IV	The Industrial Sector: Industrial Policy; Public Sector Enterprises and their Performance, Privatization and Disinvestment Debate, Small, Medium and Large-scale Industry, Industrial Labour and Industrial Relation, Industrial Sickness.			
Planning in India: Objectives and Strategy of Planning; Success St  Indian Plans; Strategy of Inclusive Growth, Resource mobilization Development.				
VI	Nature and Features of Demographic Profile, Status of Natural Resources, Major Factors affecting growth and development in Uttar Pradesh.			
VII Sectoral growth pattern in Uttar Pradesh; Economic growth in Uttar Pradesh.  VII and Indian economy: A comparison; Infrastructural development of Uttar Pradesh.				
Pradesh.  Problems and Policies. Major industries in Uttar Pradesh, Pattern of Industrial Development in Uttar Pradesh, Industrial Policy in Uttar Pradesh, Growth pattern of Services sector and Its linkages of other sectors of UP Economy. Micro, Small, Medium Enterprises (MSMEs) in Uttar Pradesh. One Product One District (OPOD).				

- 1. Agarwal,,M K (2009): Uttar Pradesh ka Arthik Vikas. New Royal Book Company
- Annual Financial Statement (Budget) of the Government of Uttar Pradesh published in different years & thelatest.
- Annual Financial Statement (Budget) of the Government of Uttar Pradesh published in different years & thelatest.
- Annual Financial Statement (Budget)various years & Latest published by the Government of India.
- Economic Surveys, Government of India (Hindi/English)
- 6. Indian Economy by Mishra & Puri. Himalaya Publishing House (Hindi /English)
- 7. Indian Economy by Uma Kapila, Academic Foundation
- 8. Indian Economy. Rudra Dutt & Sunderam. S. Chand & Company (Hindi /English)
- Mishra, Arvind Narayan & Atul Chandra (2018): The Economy of Uttar Pradesh. Gutenberg PublicationISBN: 9789386240224, 9789386240224
- Mishra, Arvind Narayan & Atul Chandra (2018): The Economy of Uttar Pradesh. Gutenberg PublicationISBN: 9789386240224, 9789386240224
- 11. Publications of the Government of Uttar Pradesh.
- 12. Publications of the Government of Uttar Pradesh.
- 13. Uttar Pradesh Human Development Report, UNDP, 2008.
- 14. Uttar Pradesh Human Development Report, UNDP, 2008.
- Uttar Pradesh State Development Report, Volume I & II, State Plan Division, Planning Commission, Government of India, 2014.
- Uttar Pradesh State Development Report, Volume I & II, State Plan Division, Planning Commission, Government of India, 2014.

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## BA 3<sup>rd</sup>Year Sem. VI Course II (Optional) (Theory)

Course Co	de: ECO-305F   Agriculture Economics   Credits:				
Course Ou	itcomes:				
CO 1.	development with respect todualistic development.				
CO 2.	Students should be able to understand and explain the basics of agriculture economics.				
CO 3.	Students should be familiar with labour issues in agriculture sector.				
CO 4.	Students should be able to explain the significance of agriculture in the				
	economic growth and economic development of an economy and in case of				
	Indian Economy.				
CO 5.	Students should be familiar with the institutional initiates to strengthen the rural and				
	agricultural development of a sufficiency.				
CO 6.	Students should be able to comprehend the role of credit in the development of agriculture in a country like India and the significance of institutional mechanism in this regard.				
Unit	Topics				
	Agricultural Economics: Meaning, Scope and Nature, Role Of Agriculture in Economic Growth and Development in India. Backward and Forward				
1	Linkage between Agriculture and Industry. Farm Incomes and Employment in Indian Agriculture. Employment Elasticity in Indian Agriculture.				
11	Models of Agricultural Development: Physiocrat's approach, W. A. Lewis				
	model, Fei & Ranis Model, Schultz Theory of Agricultural Development, Jorgenson's Dual Economy Model.				
	Agricultural Production Function, Returns to Scale, Cobweb Theorems, Farm				
Ш	Size and Productivity Debate: Theoretical and Empirical Findings. Challenges				
	and Issues Regarding Production and Productivity in India (With Focus On Post Reform Period).				
	Labour in Agriculture- Labour and Work Force in Rural Farm and Non-Farm				
	Sectors, Agricultural Labour- Problem and Policy, Concept and Measurement				
IV	of Rural Poverty and Employment, Poverty Alleviation Programmes (in brief-				
57411	the Objectives, Achievements & the Shortcomings).				
v	Current Issues in Indian Agriculture- Poverty and Food Security in India, Agro- Subsidies in India, Export and Imports of Agricultural				
	Commodities, Terms of Trade in Indian Agriculture, WTO and Indian				
	Agriculture-Bali Negotiations				
	Land Reforms in India, Green Revolution and the Need for Second				
VI	Generation, Role of Infrastructural Support for Agricultural Development-				
	Irrigation, Power, Seeds, Fertilizers and Roads.  Role of Credit in Agricultural Development, Institutional and Non-				
****	Institutional Sources of Credit in India, Cooperative Movement in India (In				
VII	Brief). Role of Schedule Commercial Banks, Lead Banks, Regional Rural Banks and NARBAD.				

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VIII

Agricultural Marketing: Meaning, Concept and Structure, Issues and Challenges in the Marketing of Agricultural Products in India (With Focus On The Post Reform Period). Agricultural Diversification: Meaning, Concept & Issues. Crop Diversification: Meaning, Concept and Issues. Agricultural Price Policy in India.

#### Suggested Readings:

- Bardhan, P. (1984) Land, Labour and Poverty; Essays in Economic Development, OUP, New Delhi
- Bhaduri, A. (1984), The Economic Structure of Backward Agriculture; Macmillan, Delhi.
- Bhalla, G.S., (2007) Indian Agriculture since Independence, National Book Trust, India
- Bharadwaj, K. (1974), Production Conditionin India Agriculture; OUP, Cambridge.
- Black, J.D. (1953) Introduction to Economics for Agriculture, Macmillan.
- Dantawala, M.L. et al. (1991): Indian Agricultural Development since Independence, Oxford & IBH, New Delhi.
- Dash, Mrutyunjay (2013): Agricultural Economies, Annual Publications.
- Ghatak, Sand K. Ingerscant(1984), Agriculture and Economic Development; Select Books, New Delhi.
- Griffin, K.(1973): Political Economy of Agrarian Change.
- Gupta, P.K (2012): Agricultural Economics, Vrinda Publications, Delhi.
- Gupta, P.K (2012): Krishi Arthsastra, Vrinda Publications, Delhi.
- Khusro, A.M.(1973), The Economics of Land Reforms and Farm Size in India, MacMillan.
- Kumar, N.S.Ravi (2010): Agricultural Economics, Neha Publishers.
- Lekhi, R.K(2013): Agricultural Economics, Kalyani Publishers.
- Lekhi, R.K (2013): Krishi Arthsastra, Kalyani Publishers.
- Mahajan, Ashwani (2010): Agricultural Economics, Centrum Press.
- Mellor, J.W., The Economics of Agricultural Development, Vora and Co., Bombay, 1964.
- Raghavan and L. Sarkar (Eds.) (1996): Poverty and Employment: New Delhi.
- Raj, K.N. et.al. (1988): Essays in the Commercialization of Indian Agriculture; OUP, New
- Sarap Kailash (1991): Interlinked Agrarian Markets in Rural India, Sage Publication, New Delhi.
- Schultz, T.W.(1964): Transforming Traditional Agriculture, Yale University Press.
- Soni, R.N (2011): Krishi Arthshastra Ke Mukhya Vishay, Vishal Publishing Company, Jalandhar (New Delhi)
- Soni, R.N (2011): Leading Issues In Agricultural Economics, Vishal Publishing Company, Jalandhar (New Delhi)

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#### BA 3rdYear, Sem. VI Course III (Optional) (Theory)

		(Theory)	
Course C	ode: ECO-306F	Elementary Mathematics	Credits:5
Course (	Outcomes:		
	in economics.	amiliar with the basis concepts of math	
CO 2.	Students are able to	comprehend & explain the concepts of	straight lines slope etc
CO 3.	of mathematics and Students should be a	itsapplication in economics.  able to understand basics of differential	& its application in

economics.
CO 4. Students should be able to understand and work with matrices and determine if a

given square matrix is invertible.

CO 5. Learn about and work with vector spaces and subspaces.CO 6. Students are able to understand and work with the concepts of linear programming &

graphic methods.

Unit	Topics		
1	Basic Concepts: Variables, Sets, Functions, Equations, Identities, Systems of Equations		
11	Application of Straight Line System, Slope of the Line, Homogeneous Function		
III	Theory of Numbers, Indices and Factorization.		
IV	Progression Growth Rate Equilibrium.		
v	Basics of Calculus: Concept of Limit, Rules of Differentiation of a Function, Partial Differentiation, Maxima and Minima, Integration of a function.		
VI	Role of Mathematical Technique in Economic analysis: Demand Function, Elasticity of Demand, Cost Function, Revenue Function. Profit Maximization: Constrained Optimisation Problem, Consumer's and Producer's Surplus.		
VII	Determinants and Matrix:, Determinants, Various types of Matrices, Inverse of a Matrix , Application of Determinants and matrices in Solution of Linear		
VIII	Linear Programming: Meaning and Methods, Graphic Methods, Application of Linear Programming in Economics.		

Suggested Readings:

 Agarwal, D.R. (2009): Mathematics for Economics, Vrinda Publications, Delhi. Livernois, John., Rees, Ray., & Hoy, Michael (2012): Mathematics for Economics, PHI Learning.

Agarwal, D.R. "Prarambhik Ganitiya Arthshastra (Hindi), Vrinda Publications, Delhi.

3. Allen,R.G.D (2008): Mathematical Analysis for Economics, AITBS.

Bhardwaj, R.S(2006): Mathematics for Economic sand Business, Excel Books.

 Chiang, A.C & Wainwright, Kevin (2013): Fundamental Methods of Mathematical Economics" McGraw Hill Publication.

 Dowling, Edward. T(2005): Schaum's Easy Outline of Introduction to Mathematic al Economics, TataMcgraw Hill Education.

7. Madnani, G M K: Mathematics for Economics. Sultan Chand & Sons

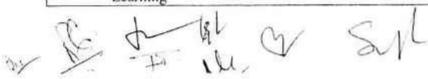
8. Mishra, J.P. "Ganiteeya Arthshastra", Pratiyogita Sahitya.

9. Rosser, Mike (2003): Basic Mathematics for Economists, Routledge.

10. Seth, M.L., "Arthshastramei Prarambhik Ganit", Laxmi Narayan Publications, Agra.

Sharma, J.K (2007): Business Mathematics, Ane Books Pvt. Ltd.

 Yamane, Taro (2007): Mathematics For Economists: An Elementary Survey, PHI Learning



#### BA 4th Year, Sem. VII Course I

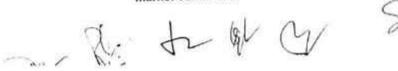
	ECO 401E	Advanced Microeconomics	Credits:4
ourse Code: Unit I	Equilibrium i Uniqueness a Analysis of C	n Economics, Types of Equilibrium nd Stability of equilibrium; Demar Consumer Behaviour: Marginal Uti	lity Theory, Indifference Curve
Unit II	New Dimens Theory. Con: Utility Index attitude towa Expenditure theory: Netw	tions in Consumer Behaviour: Land sumer Behaviour under uncertainty . Friedman Savage Hypothesis, Ma ards Gamble & Insurance; Compens Function, Indirect Utility function: work externalities.	sated Demand Function, Leibenstein's consumer demand
Unit III	Theory of Possibilitation run. Technic combination	roduction: Production Function. Co (CES) production functions. Law of eal limit of production; producer's of the product lines & Expansion path of	
Unit IV	Monopoly: Monopolist Price Comp	Value: Neo-Classical Theory of Ith Bilateral Monopoly, Price-Discrim- tic Competition: Chamberlin's mode petition. Classical oligopoly models	els, Theory of Excess Capacity, Non- ; Modern oligopoly.
Unit V	Basic Cond	cepts & terms of Theory of Games; ames, Two-person zero sum game, of soner's Dilemma model and its imp	Cooperative and Non-Cooperative

## Books Recommended:

- Henderson J, and R.E. Quandt: Microeconomic Theory: A Mathematical Approach, Mc Grow Hill, New Delhi
- Koutsoyiannis A: Modern Microeconomics: ELBS, Macmillan, Tokyo
- Varian, H.R.: Intermediate microeconomics: A Modern Approach, East West Press, New Delhi
- Hirshleifer, J and A Glazer: Price Theory and Applications, Prentice Hall of India, New Delhi
- Browning & Browning: Microeconomic Theory and Application, Kalyani Publications.
- Rubin field & Pindyck: Microeconomics , Maxwell Macmillan.
- H.L. Ahuja: Advanced Economic Theory (Hindi & English)
- Mishra & Puri: Advanced Microeconomics, Himalaya Publishing House,
- M.L. Jhingan: Advanced Economic Theory, Vrinda Publications, Delhi
- P.K. Gupta & D.S. Hira: Operation Research, S. Chand & Company.

#### Course Outcomes

- Enables the student to understand the various behaviours of various economic units such as CO 1. consumer, producer and firm.
- Enables the student to understand the decision making process of various economic units CO 2. such as consumer, producer and firm.
- Enables the student to understand the price determination process of firm under different CO 3. market conditions



#### BA 4th Year, Sem. VII Course II

Course	Code: ECO 402F	Theory of Public Economics	Credits:4
Unit I	Role of Government in Organized Society., Branches of Public Finance- Allocation, Distribution and Stabilization, Market Performance- Efficiency in Partial and General Equilibrium, Equity and Social Welfare function, Concept of Bliss Point, Government Intervention and Dead weight loss, Pareto Improvement, Pareto Potential Improvement, Double Edged Criteria, I M D Little Criteria and Theory of Second Best.		
Unit II	Externalities- Characteristics, Coase Theorem and its Problems, Public Sector solution to Externalities Problems, Externalities and Equity, Welfare gains From Alternative Letonoutions, Tax assesses Regulations of Figure Comparison and Public Choice rationale.		
Unit III	Concepts of Public Goods, Private Goods and Merit Goods, Nature of Pacific Science of Public Goods, Private Goods and Merit Goods, Nature of Pacific Science of Public Goods of Market Failure Imperfections, Decreasing costs, Theories of Social Goods Samuelson Model, Musgrave's Budget Model, Political Process of Voting (Bowen Model, Black Theorem, Logrolling ) for the Provision		
Unit IV	Public Expenditure: Increasing State Acti to Economic Activity Expenditure: Cost Be Public Revenue: Prin	Structure and Growth of Public Exp vities, Wiseman- Peacock hypothes v. Employment and Income Distribu enefit Analysis, aciples of taxation Benefit Theory	of Taxation, Ability to Pay Theory
Unit V	Theories of incidence Incidence, Tax Struct approach, Indirect tax Double taxation, Tax	e- Elasticity, Cost condition and Incidence, Excess burden- c vs Direct Tax, Effects of ta ation and Incentives, Theory of Tax nt. Goods and Service Tax (GST).	xation on Supply of Labour,

#### **Books Recommended:**

- Musgrave, R.A. and P.B. Musgrave, Public Finance in Theory and Practice, McGraw Hill, Kogakusha, Tokyo.
- · Herber, B.P., Modern Public Finance, Richard D. Irwin, Homewood.
- Musgrave, R.A., The Theory of Public Finance: A Study in Public Economy, Tokyo, McGraw Hill Book Co. and Kogakusha Co., (International student Edition)
- Musgrave, R.A., Fiscal Systems.
- · Houghton, R.W., Public Finance
- · Cutt, James, Taxation and Economic Development in India, Frederick A Praegar Publishers, New York.
- Gandhi, V.P., Some Aspects of India's Tax Struture, Vora and Company, Bombay.
- John Cullis & Philps John, Public Finance & Public Chioce: Analytical Perspectives, Oxford University Press, New York

#### Course Outcomes

- CO 1. Enables the student to understand the concepts of social, private and merit goods importance of government in the allocation of resources in social good.
- CO 2. Enables the student to understand the various aspects of public expenditure as well as the theory of public expenditure.
- CO 3. Enables the student to understand the various aspects of taxation as well as theories of taxation.

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#### BA 4th Year, Sem. VII Course III

Course Co	de: ECO 403F	Indian Economy: Basic Issues	Credits:4
Unit I	National Income: Concept, Trends, Composition and Structural change, Sectoral growth, Income Distribution and Income Inequality, Regional Disparities.		
Unit II	Poverty in India: Absolute and Relative, Poverty indices- Poverty Ratio; Poverty Gap Index and Squared Poverty Gap Index; Multi-dimensional Poverty index; Analysis of Poverty in India, Inclusive Growth, Unemployment- Unemployment Rates; Structure and Jobless Growth; Social Welfare Schemes.		
Unit III	Population: Labour Force and Occupational Distribution of Population, Population Growth, Population Problem, Latest Census, Population Policy, Planning in India: Plan Models in India, NITI Aayog		
Unit IV	Resource Base and Infrastructure: Sources of Energy-Hydro, Thermal and Nuclear, Transport and Communication, Social infrastructure Education, Health and Environment, Sustainable Development		
Unit V	Agriculture Sector Industry, Growth of Revolution and Ne	Role of Agriculture, Interrelationship of Indian agriculture. Institutional aspected for Second Green Revolution, Technulture Price Policy of India, Agricultura	nological Change in

#### Books Recommended:-

- Datt, R. and K.P.M. Sundharam, <u>Indian Economy</u>, S. Chand & Company Ltd., New Delhi.
- Misra, S.K. and V.K. Puri, <u>Indian Economy -- Its Development Experience</u>, Himalaya Publishing House, Mumbai.
- Kapila, Uma., Indian Economy: Since Independence, Acedmic Foundation, Delhi
- Agrawal, A.N., <u>Indian Economy</u>, New Edge International Pvt Limited, New Delhi.
- Government of India, <u>Economic Survey</u> (Annual), Economic Division, Ministry of Finance, New Dalhi
- Ahluwalia, I.J. and I.M.D. Little (Eds), <u>India's Economic Reforms and Development</u> (Essays in honour of Manmohan Singh), Oxford University Press, New Delhi.
- Jalan, B, India's Economic Policy -- Preparing for the Twenty-first Century, Viking, New Delhi.
- Parikh, K.S., India Development Report -- 1999-2000, Oxford University Press, New Delhi.
- Datt, R. (Ed.), Second Generation Economic Reforms in India, Deep & Deep Publications, New Delhi.
- Wadhawa, Charan, D., Some Aspects of Indian Economy
- Lucas and Papanek, The Indian Economy-Recent Development and Futre Prospects
- Agrawal, A.N and S.P.Singh., The Economics of Under Development
- Myrdal, Gunnar, Asian Drama (Vols. I and II)
- · Hicks, Mukherjee and Ghosh, The Economic Framework of the Indian Economy

#### **Course Outcomes**

- CO 1. Enables the student to understand the facts and various aspects of basic issues of Indian economy such as national income, poverty, unemployment, population, labour force etc.
- CO 2. Enables the student to understand the planning process and resources base such as natural resources, physical infrastructure and social infrastructure of Indian economy.
- CO 3. Enables the student to understand the situation, problems and prospects of agriculture sector of Indian economy.

Sector of Indian economy.

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## BA 4th Year, Sem. VII Course IV

Course C	Code: ECO 404F	Advanced Macroeconomics	Credits:4
Unit I	National Income: National Income, Determination of Na	Concept and Measurement of Nation Measuring Macro Variables, Keyns ational Income in Closed Economy	
Unit II	Determination of	National Income with Government ational Income in an Open Economy, Mo	Expenditure and Taxation, ultiplier Analysis, Concept of
Unit III	Post Keynsian Consumption Function: Absolute Income Hypothesis, Relative Income Hypothesis, Life Cycle Hypothesis and Permanent Income Hypothesis of Consumption Function, Consumption Under Uncertainty-The Random Walk Hypothesis		
Unit IV	Investment Theory: Theory of Investme	Autonomous and Induced Investment, Nent, Accelerator Theory of Investment, To	Marginal Efficiency of Capital bin's Theory of Investment.
Unit V	Multiplier and Acc Concept of Super M	celeration Principles, Interaction between	Multiplier and Accelerator,

#### Books Reccomended:

- · Ackley, G., Macroeconomics: Theory and Policy, Macmillan Publishing Company, New Yark.
- Samuelson A. & William D Nordhaus: Macroeconomics, (19th edition), McGraw Hill Publication.
- · Shapiro, E., Macroeconomic Analysis, Galgotia Publications, New Delhi.
- N Gregory Mankiw: <u>Macroeconomics</u> (sixth edition), Low Price Edition.
- David Romar: Advanced Macroeconomics, (4th edition), McGraw Hill Publication.
- H L Ahuja: Macroeconomics: Theory and Policy, (20th edition), S Chand Publication.
- Keynes, J.M., The General Theory of Employment, Interest and Money, Macmillan, London.
- Branson, W.A., <u>Macroeconomic Theory and Policy</u>, Harper and Row, New York.
- · Dornbusch, R. and F. Stanley, Macroeconomics, McGraw Hill, Inc., New York.
- Surrey, M.J.C.(Ed.), <u>Macroeconomic Themes</u>, Oxford University Press, Oxford Press.

#### Course Outcomes

- CO 1. Enables the student to understand the concept of national income, composition and methods of national income and determination of national income.
- CO 2. Enables the student to understand the Investment Multiplier and super multiplier. Concept of Inflanatiory Gap and Post Keynsian Consumption Function.
- CO 3. Enables the student to understand the various Consumption hypotheses and Theory of Investment

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#### BA 4th Year, Sem. VII Course V

Course C	ode: ECO 405F	Fundamentals of Statistics	Credits:
Unit I	Measures of Central Tendencies: Mean, Median, Mode, Quartiles and Percentiles. Measures of Dispersion: Mean, Standard Deviation and Lorenz Curve, Skewness, Moments upto fourth order and Kurtosis.		
Unit II	Spearman's Rank Co	e: Assumptions and Concept of Correlation, Kar prelation Coefficients and their Properties, Parti- ation of Attributes, Independence of Attributes,	al and Multiple
Unit III	Time Series and Regression Analysis: Components of a Time Series, Fitting a Linear and Non-linear trend by Least Squares Method; Measurement of seasonal variations; Regression Analysis: Meaning and Uses, Regression Lines and Regression Equations, Regression Coefficients, Regression Equations by Least Squares Method;		
Unit IV		cept and Classification of Index Number, Chain beyre, Paasche and Fisher Index Number, Tests for	
Unit V	Extrapolation. Meth	ctrapolation: Concept, Assumptions and Uses of lods of Interpolation and Extrapolation Parabol n, Newton's Formula and Lagrange's Method.	

#### Books Recommended:

- Mood, A.M. and P.A. Graybill: Introduction to the Theory of Statistics.
- Yule, G.U. and M.G. Kendall: An Introduction to the theory of Statistics.
- Gupta, S.C. and V.K. Kapoor; Fundamentals of Mathematical Statistics (eighth edition), S.Chand & Sons Publications, New Delhi.
- Gupta, S.C. and V.K. Kapoor: Fundamentals of Applied Statistics (third edition), S. Chand & Sons Publications, New Delhi.
- Gupta, S.C. and V.K. Kapoor: Elements of Mathematical Statistics (fourth edition), S. Chand & Sons Publications, New Delhi.
- Elhance, D.N.: Fundamentals of Statistics (Hindi Ed.)
- Agarwal, D.R.: Statistics for Economists, Vrinda Publications, New Delhi.
- Gupta, B.N.: Statistics (fourth edition), Sahitya Bhawan Publication, Agra (UP).
- शक्ला, एस0एम0 एवं एस0पी0 सहायः सांख्यिकी विश्लेषण, साहित्य भवन पब्लिकेशन, आगरा, उ०प्र०।

#### Course Outcomes

- CO 1. Enables the student to understand the various methods of statistical analysis such as measure of central tendency, measures of dispersion.
- CO 2. Enables the student to understand the correlation analysis, Time series analysis and regression analysis.
- CO 3. Enables the student to understand the Concept of Index Number and the techniques of Interpolation and Extrapolation

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#### BA 4th Year, Sem. VII Course VI

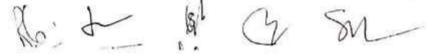
Cour	rse Code: ECO 406F	Industrial Economics	Credits:4
Unit I	Concept and Types of Firm	ustrial Economics, Basic Concepts of Inc	Structure Market
Unit II	Expansion and Growth of I Integration, Merger and Ta Affecting Growth of Firm.	Firm: Concept, Types and Motives of Di- keover. Growth of Firm: Need for Grow	versification, Vertical th of a firm, Factors
Unit III	Market Innovation and Market Concentration: Concept of Innovation Process Invention, Innovation, and Imitation. Measurement of Innovation Activities, Determinants of Innovation Activities. Industrial Concentration Concept, Types and Measurement of Industrial Concentration, Industrial Concentration in India.		
Unit IV	Period. Margin of Safety, ( Appraisal: Pay -back Perio	low Analysis of a Project, Break - even - Contribution, Profit - Volume Ratio. Metl d Method, Return on Capital Method, Co d, Internal Rate of Return Method, Social	hods of Project ost-Benefit Analysis -
Unit V	Theories of Industrial Loca Finance: Need for Industria	s and Industrial Finance: Determinants of tion Weber Theory, Sargent Florence a d Finance Short-term, Medium-term ar tial Finance Internal and External Source	Theory. Industrial nd Long- term

#### Books Recommended:

- Divine, P.J. and R.M. Jones et. al.: An Introduction to Industrial Economics, George Allen and Unwin Ltd., London.
- Hay, D. and D.J. Morris.: Industrial Economics -- Theory and Evidence, Oxford University Press, London.
- · Bains, J.S.: Industrial Organisation, Cheltanham, U.K.
- Barthwal, R.R.: Industrial Economics (second edition), New Age International Pvt. Ltd., New Delhi.
- Martin, Stephen: Industrial Economics Economic Analysis and Public Policy, Macmillan Publishing Company, London.
- Smith, D.M.: Industrial Location -- An Economic and Geographic Analysis, John Wiley, New York.
- Prasanna and Chandra: Project Appraisal and Investment Planning.
- Singh, A and Sadhu, A.N.: Industrial Economics, Himalaya Publishing House, New Delhi.
- केंo आरo त्रिपाठी औद्योगिक अर्थशास्त्र, यूनिवर्सिटी पब्लिकेशन, नई दिल्ली ।

#### Course Outcomes

- CO 1. Enables the student to understand the various terms used in industrial economics such as firm, industry, market, market structure etc. It also enables the student to understand the various forms of firm that exist in an industrial society.
- CO 2. Enables the student to understand the various conducts such as product differentiation, product diversification, vertical integration, merger, acquisition, takeover, innovation etc. performed by a firm to achieve its goal.
- CO 3. Enables the student to understand the various problems such as industrial concentration, industrial inefficiency that may exist in an industrial society



#### BA 4th Year, Sem. VII Course VII

Course C	ode: ECO 407F	Indian Finance	Credits:4
Unit I	Federal Finance: Deshmukh Award	Principles and Problems, Meston Awards, Financial Federalism under Constitution ent features of Indian system.	
Unit II	Indian Finance C Tax Sharing and Sixteenth Finance	Grants; Recommendation of successive Commission: Terms of Reference, Is	ssues and Approaches, mendations.
Unit III	Public Debt in Ir Classification of	Budgets: Functional Economic Perform	mance and Zero Base
Unit IV	Revenue and Ex Central Governm	spenditure of State Government, Front nent Support to State Finance; Local	
Unit V	Indiract Tayes	enue of Central Government; Indian Ta Chelliah Committee, Kelkar Co s; GST: Features and Experiences	ommittee-Task Force

## Books Recommended:

- Kaldor, N., Indian Tax Reform
- James Cutt, Taxation of Economic Development of India
- Bhargava, R.N., A Manual of Economic and Functional Classification of Government Transaction
- U.N., A Manual for Programme and Performance Budgeting
- N.C.A.E.R., Economic Functional Classification of Central and State Government Budget 1957-58
- Govt. of India, Annual Budgets

#### Course Outcomes:

- CO1. Enables the student to understand the theory of Federal Finance as well as idea.
  Principles and Problems of Fiscal Federalism.
- CO2. Enables the student to understand the India's long term Fiscal Policy and Fiscal Sector Reforms in India.
- CO3. Enables the student to understand the Tax Structure, Tax Policy and Budget formation process in India.

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#### BA 4th Year, Sem. VIII Course VIII

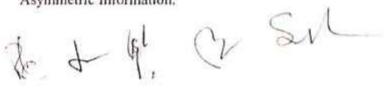
Course	Code: ECO 408F	Modern Microeconomics	Credits:4
Unit I	Firm: Baumol, Marris ar	l Theory of Firm, Modern Theories of F nd Williamson, Limit Price Theory, Pric	mig charceless.
Unit 11	Micro Distribution Theo theories of Rent, Theorie	ries: General Theory of Factor Pricing, es of Profit – Knight and Shackles, IS-L up Problem	M Curves and Interest Rate
Unit III	Economics: Pareto optin Scitovasky Paradox; Soc	Economics: Old Welfare Economics: A nality Conditions and Its Violation, Kale rial Welfare Function, Social Choice They of Second Best.	eory: Arrow, Rawl's
Unit IV	Linear Programming Technique: Basic Terms, Problem Formulation, Solution of Electronic Graphical Method & Simplex Method, Primal & Dual Problems, Input-Output Problem:		ions.
Unit V	Economics of Information	on: Properties and Value of Information, lection & Moral Hazard. Insurance and bour market; Wage Efficiency Model; Pr	Moral Hazard Problem;

#### Books Recommended:

- Dr. Sandeep Kumar; Vayashti Arthshastra Me Naye Vikas, ASR Publications, Ghaziabad 201102
- Henderson J, and R. E. Quandt: Microeconomic Theory: A Mathematical Approach, McGraw Hill, New Delhi.
- Koutsoyiannis A.: Modern Microeconomics; ELBS, Maemillan, Tokyo.
- Varian, H. R.: Intermediate Microeconomics: A Modern Approach, East West Press, New Delhi.
- Hirshleifer, J. and A. Glazer: Price Theory and Applications, Prentice Hall of India, New Delhi.
- Browning & Browning: Microeconomic Theory and Applications, Kalyani Publications.
- Rubin Field & Pindyck: Micro Economics, maxwell Macmillan.
- H.L. Ahuja: Advance Economic Theory (Hindi & English)
- Mishra & Puri: Advance Microeconomic, Himalaya Publishing House.
- M.L. Jhingan: Advance Economic Theory, Vrinda Publications, Delhi
- P. K. Gupta & D. S. Hira: Operation Research, S. Chand & Company.

#### Course Outcomes

- CO 1. Enables the student to understand the Alternative Theory of Firms, Input-Output Analysis and Linear Programming as well as Utility of Input-Output Analysis Linear Programming Technique in economic analysis.
- CO 2. Enables the student to understand the Theory of Factor Pricing, Economic Welfare Criterion, Pareto Optimality Conditions, Social Welfare Function.
- CO 3. Enables the student to understand the Theories of Search, Economics of Information, Asymmetric Information.



#### BA 4th Year, Sem. VIII Course IX

Course Code: ECO 409F		Fiscal Policy and Federalism	Credits:
Unit I	Closed and Open Eco	ves and Instruments, Types – Expansionary a ce, Functional Finance, Effectiveness of tools nomy, Interdependence of fiscal and monetary economies, Concept of Crowding out Effect	of fiscal policies:
Unit II	The Budget: Concept, Types, Budget Making and the Budgetary Process, Theory of Optimum Budget. Zero-base Budgeting system; Performance based budgeting system.		
Unit III	Deficits: Concept and Types, Deficit Financing, Public Debt: Concept, Nature and Management, Burden of Public debt, Methods of Redemption.		
Unit IV	Optimal Community s	Piscal Federalism: Multi Level Government Importance, Principles & Problems, Optimal Community size, Optimal Services Level, Optimal Structure of Community and Service, Vertical and Horizontal Fiscal Imbalances.	
Unit V	Fiscal federalism in In Finance Commission of Local Finance.	ndia, Union-/State Financial Relations in India. in India; Problems of States' resources and ind	, Reports of ebtness, Problems

#### **Books Recommended:**

- Musgrave, R.A. and P.B. Musgrave, Public Finance in Theory and Practice, McGraw Hill, Kogakusha, Tokyo.
- Herber, B.P., Modern Public Finance, Richard D. Irwin, Homewood.
- Musgrave, R.A., The Theory of Public Finance: A Study in Public Economy, Tokyo, McGraw Hill Book Co. and Kogakusha Co. (International student Edition)
- Musgrave, R.A., Fiscal Systems.
- · Houghton, R.W., Public Finance
- Cutt, James., Taxation and Economic Development in India, Frederick A Praegar Publishers, New York.
- · Gandhi, V.P., Some Aspects of India's Tax Struture, Vora and Company, Bombay.
- John Cullis & Philps John, Public Finance & Public Chioce: Analytical Perspectives, Oxford University Press, New York

#### Course Outcomes

- CO 1. Enables the student to understand the Nature and Management Public Debt, Budget Making and the Budgetary Process and various types of budgeting system such as Zero-base Budgeting, Performance based budgeting etc.
- CO 2. Enables the student to understand the Nature and functioning of Fiscal Policy, Interdependence of fiscal and monetary policies.
- CO 3. Enables the student to understand the Principles & Problems of Fiscal Federalism, Union-/State Financial Relations in India and Reports of Finance Commission in India.

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#### BA 4th Year, Sem. VIII Course X

Course (	Code: ECO 410F	Indian Industrial and External Sector	Credits:4
Unit I	Industrial policy of Disinvestment Police		Privatisation and
Unit II	cottage and small-so	cation of SSIs, Role of SSIs in Indian Economy, Perale industries; Industrial sickness and problem of the control of the contr	inder dimsation of
Unit III	Industrial labour and industrial relation, issues in labour market reforms. Exit policy.		
Unit IV	payments situation;	External Sector: Composition and direction of foreign trade of India; Balance of payments situation; Trade and exchange rate policies, FEMA; Inflow and outflow of foreign capital and MNCs in India.	
Unit V	D. C.	Fiscal sector reforms, Financial sector reform; Gio TO and its impact on Indian economy; Issues in co	mpetition and

#### Books Recommended:-

- Datt, R. and K.P.M. Sundharam, <u>Indian Economy</u>, S. Chand & Company Ltd., New Delhi,
- Misra, S.K. and V.K. Puri, <u>Indian Economy -- Its Development Experience</u>, Himalaya Publishing House, Mumbai.
- Kapila, Uma., Indian Economy: Since Independence, Academic Foundation, New Delhi
- Agrawal, A.N., Indian Economy. New Edge International Pvt Limited, New Delhi.
- Government of India, <u>Economic Survey</u> (Annual), Economic Division, Ministry of Finance, New Delhi.
- Ahluwalia, I.J. and I.M.D. Little (Eds), <u>India's Economic Reforms and Development</u> (Essays in honour of Manmohan Singh), Oxford University Press, New Delhi.
- Jalan, B, India's Economic Policy -- Preparing for the Twenty-first Century, Viking, New Delhi.
- Parikh, K.S., India Development Report -- 1999-2000, Oxford University Press, New Delhi.
- Datt, R. (Ed.), Second Generation Economic Reforms in India, Deep & Deep Publications, New Delhi.

#### Course Outcomes

- CO 1. Enables the student to understand the Different aspects and problems as well as policies of industrial sector of Indian economy.
- CO 2. Enables the student to understand the Different aspects and problems as well as policies of external sector of Indian economy.
- CO 3. Enables the student to understand the Process of Economic Reforms in India, globalization of Indian economy, Issues in competition and safety nets in Indian economy.

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#### BA 4th Year, Sem. VIII Course XI

Course Cod	e: ECO 411F	Modern Macroeconomics	Credits:4
Unit I	Post-Keynsian Developments in Macroeconomics: The IS-LM Model, Inflation- Unemployment Trade-off, Supply-Side Economics- Basic Propositions.		
Unit II	Lucas Aggregate	cal Economics:- Rational Expectation M Supply Function, Lucas Rational Expect omics: Some Common Elements of New	odel - Lucas Critique, ation Model. The New
Unit III	Economic Fluctuations: Types of fluctuations, Theories of Trade Cycle: Monetary Theories, Samuelson's Theory, Hicks Theory, Kaldor's Theory, Real Business Cycle Theory, Aggregate Demand – Aggregate Supply Model (with Price Flexibility).		
Unit IV	Growh Theories: Meaning and Determinants of Economic Growth, Classica Theory, Harrod Model, Domar Model, Solow Model, Concept of Endogenou Growth.		
Unit V	Fiscal Policy. Th	: Objectives and Role of Economic Policy neory and Tools of Monetary Policy. Effe IS-LM Approach.	

#### Books Reccomended:

Ackley, G., Macroeconomics: Theory and Policy, Macmillan Publishing Company, New Yark.

Samuelson A. & William D Nordhaus: Macroeconomics, (19th edition), McGraw Hill Publication.

Shapiro, E., Macroeconomic Analysis, Galgotia Publications, New Delhi.

N Gregory Mankiw: Macroeconomics, (sixth edition), Low Price Edition.

David Romar: Advanced Macroeconomics, (4th edition), McGraw Hill Publication.

H L Ahuja: Macroeconomics: Theory and Policy, (20th edition), S Chand Publication.

Keynes, J.M., The General Theory of Employment, Interest and Money, Macmillan, London.

Branson, W.A., Macroeconomic Theory and Policy, Harper and Row, New York.

Dornbusch, R. and F. Stanley, Macroeconomics, McGraw Hill, Inc., New York.

Surrey, M.J.C.(Ed.), Macroeconomic Themes, Oxford University Press, Oxford Press.

#### Course Outcomes

- CO 1. Enables the student to understand the Different aspects and problems as well as basic propositions of Modern Macroeconomics.
- CO 2. Enables the student to understand the various models of modern macroeconomics
- CO 3. Enables the student to understand the Process of Economic policy in India, theory and tools of monetary policy as well as effectiveness of fiscal and monetary Policy

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#### BA 4th Year, Sem. VIII

#### Course XII

Course Co	ode: ECO 412F	Research Methodology	Credits:
Unit I	Research, Types of R Methodology, Resear	y: Meaning and Objectives of Research, escarch, Significance of Research, Resea ch Process, Criterion of Good Research	ren Method Vs.
Unit II	Research Problem: Definitions of Research Problem, Selecting the Research Problem, Techniques involved in Defining a Problem; Research Design: Meaning of Research Design, Need for Research Design, Features of a Good Design, Important Concepts Relating to Research Design, Different Research Designs		
Unit III	Theoretical Statistica Normal Distribution Parameter and Statist	Statistical Distribution: Binomial Distribution, Foisson Pistale and Sample, tribution Properties and Uses, Sampling Theory: Universe and Sample, and Statistic, Sampling Distribution, Standard Error, Sampling Error, Sam	
Unit IV	Elements of Hypothesis Testing: Concept of Hypothesis, 19th and Critical Region, Hypothesis, Type I and Type II Error, Level of Significance and Critical Region, Procedure for Hypothesis Testing,		
Unit V	Test of Significance: Large and Small Sample Tests, Chi Square Test and Goodnes of fit, Contingency Table and Goodness of fit.		are Test and Goodness

#### Books Recommended:

- Kothari, C. R.: Research Methodology: Methods and Techniques, New Age International Publisher, New Delhi
- Mood, A.M. and P.A. Graybill: Introduction to the Theory of Statistics.
- Yule, G.U. and M.G. Kendall: An Introduction to the theory of Statistics.
- Gupta, S.C. and V.K. Kapoor: Fundamentals of Mathematical Statistics (eighth edition), S.Chand & Sons Publications, New Delhi.
- Gupta, S.C. and V.K. Kapoor: Fundamentals of Applied Statistics (third edition), S. Chand& Sons Publications, New Delhi,
- Gupta, S.C. and V.K. Kapoor: Elements of Mathematical Statistics (fourth edition), S.Chand & Sons Publications, New Delhi,
- Elhance, D.N.: Fundamentals of Statistics (Hindi Ed.)
- Agarwal, D.R.: Statistics for Economists, Vrinda Publications, New Delhi.
- Gupta, B.N.: Statistics (fourth edition), Sahitya Bhawan Publication, Agra (UP).
- श्कला, एस०एम० एवं एस०पी० सहायः सांख्यिकी विश्लेषण, साहित्य भवन पब्लिकेशन, आगरा, 30401

#### Course Outcomes

- CO 1. Enables the student to understand the Introduction of research methodology, Research Problem and Research Design
- CO 2. Enables the student to understand the various types of Theoretical Statistical Distribution such as Binomial Distribution, Poisson Distribution, Normal Distribution
- CO 3. Enables the student to understand Sampling Theory and various methods of sampling.
- CO 4. Enables the student to understand the elements of hypothesis testing and various Statistical testing procedures.

## BA 4th Year, Sem. VIII

#### Course XIII

Course	Code: ECO 413F	Indian Economic Thought	Credits:4
Unit I	Moksha, Wealth and	ral Thoughts: Sources of Thoughts; D I Its Use: Micro Foundations of Huma meient Thoughts; Brahspati and Shukrach	an Welfare; Srimad
Unit II	Economic Thoughts of Kautilya: Arth (Wealth), Public Finance; Varta, Functions of State; Thoughts of Thiruvalluvar.		
Unit III	Gadhian Economics: Sarvoday Arthshastra: Trusteeship; Rural Reconstruction, Industrialization and Mechanization, Khadi: Evaluation of Gadhian Economic Thoughts.		
Unit IV	Modern Economic Thinking in India: Indian Nationalist Economists: Dada Bhai Naoroji; M.G.Ranade; R.C.Dutt, G.K.Gokhle; Vishveshvraya' K.T.Shah, RadhaKamal Mukherjee, C.N.Vakil, D.R.Godgil.		
Unit V	Economic Thouths o Sen, Jagdish Bhagwa	f J.K.Mehta, B.R.Ambedkar, Ram Manol ti and Pt. Deendayal Upadhyaya.	har Lohiya, Amartya

#### Books Recommended:

- Kumar Sandeep (2023): Institutional Economics & Indian Economic Thoughts, Shree Publication & Distributers, New Delhi.
- Eric Roll: A History of Economic Thought, Faber & Faber.
- Charles Guide & Charles Rist: A History of Economic doctrines, George G. Harrap & Co.
- Lewis H. Haney: History of Economic Thought, Macmillan & Co.
- · T.W. Hutchison: A Review of Economic Doctrine.
- Bell John Fred: A History of Economic Thought, The Ronald Press.
- · Mark Blaug: Economic Theory in Retrospect.
- T.N. Hajela: History of Economic Thought, Ane's Student Edition, Ane Books Pvt. Ltd, New Delhi.
- H. L. Bhatia: History of Economic Thought, Vikas Publishing House Pvt. Ltd, New Delhi.
- चतुर्वेदी महेश चन्द्रः आर्थिक चिन्तन का इतिहास,चतुर्वेदी मिथिलेशः साहित्य भवन पब्लिकेशन्सए आगरा

#### Course Outcomes:

- CO 1. Enables the student to understand the Economic Thoughts in Pre Classical Period, Idea of Subjectivism and Marginalism.
- CO 2. Enables the student to understand the Economic Thoughts in Neo Classical Period, Idea of Institutionalism.
- CO 3. Enables the student to understand the Economic Thoughts on Welfare Economics.

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## BA 4th Year, Sem. VIII Course XIV

Course C	ode: ECO 414F	Indian Financial System	Credits:4
Unit I	Meaning, Importa Institution; RBI, Pt and Cooperative Ba	nce & Components of Financiablic Sector Banks, Private Sector	l ial System in India- Banking or Banks, Regional Rural Banks
Unit II	Non-Banking Insti Institutions in Ind	tutions- Meaning, Role and Gro ia. Development Finance Instit ecialized Institutions. Non-Banki	utions, Investment Institutions-
Unit III	Indian Financial Market- Money Market and Capital Market. Money Market Unorganized and Organised Money Market, Call Money Market. Primary Capital Market, Secondary Capital Market, Derivative Market.		
Unit IV	Financial Instrument- Short Term, Medium Term and Long Term. Primar Securities, Secondary Securities- Debt and Equity, Shares- Ordinary and Preferential Shares, Types of Debenture, Commercial Papers, Certificates of Deposits.		
Unit V	Consumer Credit,	<ul> <li>Meaning of Financial Servi Bill Discount, Venture Capital ating, Debt Restructuring, Insura ial Sector Reforms.</li> </ul>	l, Housing Finance, Merchant

#### Books Recommended:

- Bhole, L.M., Financial Markets and Institution, Tata McGraw Hill (TMH) Publication, New Delhi.
- · Machiraju, 'Indian Financial System' Vikas Publication House, 2nd Edition, 2002.
- Khan, M.Y., 'Indian Financial System- Theory and Practice', Tata McGraw Hill (TMH) Publication, New Delhi.
- Bharati Pathak, 'The Indian Financial System', Pearson Education Publication, New Delhi, 2009.
- Varshney P.N., & Mittal D.K., "Indian Financial System', Sultan Chand & Sons, New Delhi, 2002.
- Annual Reports of Major Financial Institution in India.

#### Course Outcomes

- CO 1. Enables the student to understand the Importance and Components of Financial System of India as well as Banking Institutions
- CO 2. Enables the student to understand the Role and Growth of Non-Banking Financial Institution in India.
- CO 3. Enables the student to understand the various Indian Financial Market and Financial Instruments.
- CO 4. Enables the student to understand the various Financial Services such as Credit Rating, Stock Broking, Merger, Consumer Credit etc.

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## BA 4th Year, Sem. VIII Course XV

	ode: ECO 415F		Credits:4
Unit 1	Unbiased Estimato	conometrics, Economics and Econome nares, Two-Variable Linear Regression r, Significance Tests of Parameters, M A and GMM Estimators.	
Unit II	Multivariable Linear Regression Model Estimation and Properties of Estimators, Test of Overall Significance of the Regression.		
Unit III	Hetroscadastic Disturbance, Problem of Autocorrelation, Generalized Least Squares: Aitkeon's Procedure, Properties of GLS Estimators.		
Unit IV	Problem of Misspecification and Multicollinearity, Restricted Least Squares. Instrumental Variables, Errors in Variables, Dummy Variables, Ridge Regression.		
Unit V	Problem – Rank ar	ntion Model, Structural and Reduced Food Order Condition, Simultaneous Equation, Estimation of Production and Cost	ition Bias, Indirect

#### Books Recommended:

- Gujarati, D.N.: Basic Econometrics (fourth edition), McGraw Hill.
- Johnston, J.: Econometric Methods, McGraw Hill.
- Madala, G.S.: Econometrics (third edition), McGraw Hill.
- Klein, L.R.: Text Book of Econometrics
- Theil, H.: Principles of Econometrics
- Kmenta, J.: Elements of Econometrics
- Imtriligator, M.D.: Econometric Models -- Techniques and Applications.

#### Course Outcomes:

- Enables student to understand methodology of econometrics and various tools of mathematical analysis of economic problems.
- It develops quantitative analytical skill to solve economic problems of real CO 1. worlds.
- CO 2. It develops skill to give practical quantitative estimates of production functions, demand, demand forecasting, etc.
- CO 3. It prepares students for mathematical treatments of economic issues in modern times.

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