



Effective from Session: 2024-25												
Course Code	A080101T/ HE107			Title of the Course		Principles of Micro Economics			L	T	P	C
Year	1 <sup>st</sup>			Semester		1 <sup>st</sup>			5	1	0	6
Pre-Requisite	Intermediate			Co-requisite		None						
Course Objectives	This course is designed to expose first-year students, who may be new to economics, the basic principles of microeconomic theory.											
Course Outcomes												
CO1	The students are familiarized with basic concepts of microeconomics.											
CO2	The students learn laws of demand and elasticity, so that he/she can comprehend them & familiarize with day today happenings.											
CO3	The students learn supply and law of supply.											
CO4	The students learn how individuals allocate resources based budget constraints.											
CO5	The students learn and understand application of Indifference curve analysis in deriving demand curves, price effect, income effect and substitution effect.											
CO6	The students learn and understand the Theory of production- iso-quants, laws of returns to scale, law of variable proportion.											
CO7	The students learn, understand and compare between the Traditional and modern theory of cost.											
CO8	Demonstrate an understanding, usage and application of basic economic principles.											
Unit	Content of Unit								Contact Hrs.		Mapped CO	
1	Introduction: Basic Concepts and Definition of Economics, scope of economics, Problem of scarcity and choice: scarcity, choice and opportunity cost; production possibility frontier; economic systems.								7		CO1	
2	Demand :law of demand, determinants of demand, shifts of demand versus movements along a demand curve, market demand. Elasticity: price elasticity of demand, calculating elasticity, determinants of price elasticity, other elasticities								8		CO2	
3	Supply: law of supply, determinants of supply, shifts of supply versus movements along a supply curve, market supply, market equilibrium. Applications of demand and supply: price rationing, price floors, consumer surplus, producer surplus.								8		CO3	
4	Consumer Theory: Budget constraint, concept of utility, diminishing marginal utility, Diamond-water paradox, income and substitution effects;								7		CO4	
5	Consumer choice: indifference curves, derivation of demand curve from indifference curve and budget constraint. Theory of Revealed Preference								7		CO5	
6	Production: behavior of profit maximizing firms, production process, production functions, law of variable proportions, choice of technology, isoquant and isocost lines, cost minimizing equilibrium condition.								7		CO6	
7	Costs: costs in the short run, costs in the long run, revenue and profit maximizations, minimizing losses, short run industry supply curve, economies and diseconomies of scale, long run adjustments.								8		CO7	
8	Market Structures a. Perfect Competition: a. Assumptions: theory of a firm under perfect competition, demand and revenue; equilibrium of the firm in the short run and long run; long run industry supply curve: increasing, decreasing and constant cost industries. Welfare: allocative efficiency under perfect competition.								8		CO8	
Reference Books:												
1. Ahuja ,H.L(2013) : Advanced Economic Theory”, S.Chand& Company.												
2. Ahuja,H.L (2012) :UcchatarArthikSiddhant”, S.Chand& Company, New Delhi.												
3. Dwivedi,D.N (2011) :Microeconomics-Theory & Applications”, Pearson.												
4. Lal, S.N (2013):ArthshastraKeSiddhant”, Shiva Publishing House, Allahabad.												
5. Lipsey,Richard&Chrystal,Alec (2011) : Economics”, Oxford University Press Publications, New Delhi.												
6. Pindyck,Robert.S., Rubinfeld.Daniel.L., Mehta.Prem.L(2009): Microeconomics”, Pear son.												
E-Learning Source:												
<ul style="list-style-type: none"><li>Swayam</li><li>Coursera</li></ul>												
Course Articulation Matrix: (Mapping of COs with POs and PSOs)												
PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4	
CO1	3	3	3	-	-	3	-	3	3	1	3	
CO2	3	3	3	-	-	3	-	3	3	1	3	
CO3	3	3	3	-	3	3	-	3	3	1	3	
CO4	3	3	3	-	1	3	-	3	3	2	3	
CO5	3	3	3	-	3	3	-	3	3	2	3	
CO6	3	3	3	-	3	3	-	3	3	2	3	
CO7	3	3	3	-	-	3	2	3	3	3	3	
CO8	3	3	3	-	-	3	-	3	3	3	3	

1-Low Correlation; 2- Moderate Correlation; 3- Substantial Correlation

Name & Sign of Program Coordinator						Sign & Seal of HoD					



Effective from Session: 2024-25

Course Code	A080102T/HE109	Title of the Course	Indian Economy.	L	T	P	C
Year	I <sup>st</sup>	Semester	I <sup>st</sup>	5	1	0	6
Pre-Requisite	Intermediate	Co-requisite	None				
Course Objectives	This course aims to give an overview of the Indian Economy and the economic planning in India. It discusses the economic policies of India along with an overview of agriculture in India, poverty and inequality situation, demographic dividend and human capital. It focusses on the globalization and economic reforms and emerging issues in the Indian economy.						

Course Outcomes	
CO1	Understand the Historical perspective, basic features, and current status of Indian economy.
CO2	To study the role and functions of Planning Commission and NITI Aayog in India.
CO3	Understand the concept of Fiscal policy and Monetary policy.
CO4	Understand the concept of green revolution, agricultural pricing and marketing policies.
CO5	To study the concept of poverty line, poverty indices.
CO6	Understand the population trends in India.
CO7	Understand the Impact of globalization on various sectors of the Indian economy.
CO8	Students will be able to identify the emerging Issues in the Indian Economy.

Unit No.	Content of Unit	Contact Hrs.	Mapped CO
1	<b>Introduction to Indian Economy:</b> An Overview of the Indian economy: Historical perspective, basic features, and current status. Economic development and growth: Goals, measures, and indicators.	07	CO1
2	<b>Economic Planning in India:</b> Five-Year Plans: Evolution, objectives, achievements, and criticisms. Planning Commission and NITI Aayog: Role and functions.	07	CO2
3	<b>Economic Policies:</b> Industrial Policy: Evolution, objectives, and impact. Trade Policy: Import-export policy, tariffs, trade agreements. Fiscal Policy: Budgeting process, taxation, government expenditure. Monetary Policy: Role of the Reserve Bank of India (RBI), money supply, inflation targeting.	08	CO3
4	<b>Primary Sector:</b> Overview of agriculture in India: Importance, challenges, and reforms. Green Revolution and its impact. Agricultural pricing and marketing policies.	07	CO4
5	<b>Poverty and Inequality:</b> Measurement of poverty: Poverty line, poverty indices. Causes and consequences of poverty and inequality. Poverty alleviation programs: Overview and evaluation.	08	CO5
6	<b>Demographic Dividend and Human Capital:</b> Population trends in India: Growth, structure, and challenges. Education and healthcare: Status, policies, and impact on economic development.	07	CO6
7	<b>Globalization and Economic Reforms:</b> Liberalization, privatization, and globalization (LPG) reforms. Impact of globalization on various sectors of the Indian economy. Role of international organizations: WTO, IMF, World Bank.	08	CO7
8	<b>Emerging Issues in the Indian Economy:</b> Sustainable development: Environmental challenges and policies. Digital economy: E-commerce, digital payments, and regulations. Urbanization and urban development policies.	08	CO8

#### Reference Books:

1. Annual Financial Statement (Budget) various years & Latest published by the Government of India.
2. Economic Surveys, Government of India (Hindi/English).
3. Indian Economy by Mishra & Puri. Himalaya Publishing House (Hindi /English).
4. Indian Economy by Uma Kapila, Academic Foundation.
5. Indian Economy. Rudra Dutt & Sundaram. S. Chand & Company (Hindi /English).
6. Publications of the Government of India.

#### E-Learning Source:

<https://swayam.gov.in/>  
<http://www.ignouhelp.in/ignou-study-material/>

Course Articulation Matrix: (Mapping of COs with POs and PSOs)											
PO-PSO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
CO1	3	2	3	1	2	1	3	2	1	3	1
CO2	2	3	2	3	1	2	2	1	1	2	1
CO3	3	1	3	1	2	3	1	3	2	1	3
CO4	1	2	1	2	3	1	3	2	1	3	3
CO5	3	3	2	3	2	3	1	1	2	2	3
CO6	1	2	3	2	2	2	2	2	3	1	2
CO7	2	1	1	1	1	3	3	2	1	3	3
CO8	3	3	2	3	3	3	2	2	2	1	3

1- Low Correlation; 2- Moderate Correlation; 3- Substantial Correlation

Name & Sign of Program Coordinator	Sign & Seal of HoD
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**1- Low Correlation: 2- Moderate Correlation: 3- Substantial Correlation**

<b>Name &amp; Sign of Program Coordinator</b>	<b>Sign &amp; Seal of HoD</b>
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Effective from Session:2024-25							
Course Code	HM101	Title of the Course	RASHTRA GAURAV	L	T	P	C
Year	I	Semester	I	2	0	0	2
Pre-Requisite	Intermediate (Any Stream)	Co-requisite	None				
Course Objectives	The objective of the course on "Rashtra Gaurav" is to explore and critically analyze the multifaceted dimensions of national pride and glory, as depicted in the paper. Participants will delve into the historical, cultural, social, and political aspects that contribute to the concept of "Rashtra Gaurav" (National Pride) in the context of the specific themes and perspectives presented in the paper. Through in-depth discussions, readings, and interactive sessions, participants will gain a comprehensive understanding of the factors that shape and define a nation's sense of pride, and how these factors influence individual and collective identities. The course aims to foster a nuanced appreciation for the significance of "Rashtra Gaurav" in contemporary society, encouraging participants to critically evaluate its implications and applications within diverse global contexts.						

Course Outcomes	
CO1	To understand the basics of Indian Society and culture.
CO2	To understand the literature, science and astrology.
CO3	To understand Indian heritage.
CO4	To examine the philosophical and spiritual developments in India.
CO5	To evaluate the contributions of Major National Characters and Personalities.

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
1	Indian Society & Culture	<ul style="list-style-type: none"> <li>Unity in Diversity: Cultural &amp; Religious Harmony</li> <li>Indian Diaspora</li> <li>Ancient Indian Civilization.</li> <li>National and International Awards &amp; Awardees</li> </ul>	05	01
2	Literature, Science, Astrology	<ul style="list-style-type: none"> <li>Indian Epics: Ramayan &amp; Mahabharata</li> <li>Prominent litterateur: Shudrak, Kalidas, Amir Khusru,</li> <li>Kautilya's Arthashastra</li> <li>Panini's Ashtadhyayi</li> </ul>	05	02
3	Indian Heritage	<ul style="list-style-type: none"> <li>Cultural Heritage in India: Buddhist Monuments at Sanchi, Ajanta &amp; Ellora Caves, Khajuraho, Taj Mahal</li> <li>Tourist Places in India: Red Fort, Ambar Palace, Kaziranga National Park</li> </ul>	04	03
4	Philosophical and Spiritual Developments	<ul style="list-style-type: none"> <li>Sufism &amp; Bhakti Movement: Bulleh Shah, Data Ganj Baksh, Khwaja Moinuddin Chishti, and Nizamuddin Auliya. Tulsidas, Surdas, Meera, Nanak &amp; Kabir</li> <li>Jainism: Mahavir's Biography and Education</li> <li>Buddhism: The life of Buddha, Contributions of Buddhism to India's Culture</li> </ul>	05	04
5	Major National Characters And Personalities	<ul style="list-style-type: none"> <li>Ashoka the Great and His Dhamma</li> <li>Raja Ram Mohan Roy &amp; Brahmo Samaj</li> <li>Swami Vivekanand and his philosophies</li> <li>Mahatma Gandhi: Role of Gandhi in Indian National Movement</li> <li>Dr. Bhimrao Ambedkar: A Chief architect of the Indian Constitution</li> </ul>	06	05

Reference Books:
Jawaharlal Nehru - "The Discovery of India"
B.R. Ambedkar - "Annihilation of Caste"
Ramachandra Guha - "India After Gandhi: The History of the World's Largest Democracy"
Mahatma Gandhi – "My Experiment with Truth"
S C Dubey- "Indian Society"
Nadeem Hasnain – "Indian Society and Culture"
G Shah- "Social Movements in India"

Course Articulation Matrix: (Mapping of COs with POs and PSOs)										
PO- PSO CO	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	2	1	3	3	2	2	3	2	1	2
CO2	3	2	2	3	1	2	3	1	2	1
CO3	1	2	2	2	2	3	2	3	3	2
CO4	1	3	2	3	2	3	2	3	1	3
CO5	2	3	1	2	2	3	1	3	2	1

1- Low Correlation; 2- Moderate Correlation; 3- Substantial Correlation

Name & Sign of Program Coordinator	Sign and seal of HoD
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Effective from Session: 2024-25

Course Code	A080201T / HE108	Title of the Course	Principles of Macroeconomics	L	T	P	C
Year	I <sup>st</sup>	Semester	II <sup>nd</sup>	5	1	0	6
Pre-Requisite	Intermediate	Co-requisite	None				
Course Objectives	This Paper is designed to provide a sound knowledge of basic Principles of macro-economic theory. The goal of this course is to provide students with a thorough understanding of the fundamental principles of macroeconomics that establish a functional relationship between large aggregates. This course looks at the determination of income and employment, consumption function, quantity theory of Money.						

Course Outcomes	
CO1	The students are familiarized with basic concepts of macroeconomics and able to distinguish between Macro vs. Micro Economics.
CO2	Students can explain national income, comprehend calculation methods of national income, and concepts related to national income.
CO3	Students can explain the Circular Flow of Income and expenditure in two, three, and four-sector economies.
CO4	Student are able to understand the Circular Flow of Income and expenditure in two, three, and four-sector economy
CO5	Students can comprehend the classical theory of employment and the Keynesian approach.
CO6	Students can comprehend the concept of Principle of Effective Demand and Consumption Function.
CO7	Students can able to understand the basic concepts of Money and Inflation.
CO8	Students can able to understand the determination of exchange rate.

Unit No.	Content of Unit	Contact Hrs.	Mapped CO
1.	Introduction: What is macroeconomics? Macroeconomic issues in an economy. Macro vs. Micro Economics. Limitations of Macroeconomics.	07	CO1
2.	Introduction to National Income; National Income Accounting: Concepts of GDP, GNP, NDP, and NNP at market price and factor cost, Personal Income and Disposable Personal Income.	07	CO2
3.	Measurement of National Income- Income, expenditure, product or Value added Methods and related aggregates; nominal and real income; limitations of the GDP concept. GDP Deflator.	07	CO3
4.	Circular Flow of Income and expenditure in two, three, and four-sector economy. National Income and Economic Welfare; Green Accounting.	07	CO4
5.	Consumption Function-Average and Marginal Propensity to Consume; Saving Function: Average and Marginal Propensity to Save. Keynes's Psychological Law of Consumption; Determinants of Propensity to Consume: Objective and Subjective Factors.	08	CO5
6.	Post-Keynesian Theories of Consumption: Relative Income Theory of Consumption: Demonstration Effect and Ratchet Effect; Life Cycle Theory of Consumption; Permanent Income Theory of Consumption—Long-Run and Short-Run Consumption Function.	08	CO6
7.	Classical Theory of Employment. Say's Law of Markets. Keynes' Objection to the Classical Theory; Aggregate Demand and Aggregate Supply Functions. The Principle of Effective Demand.	08	CO7
8.	Macroeconomic policy- Meaning and objectives, Targets and instruments, Fixed and flexible target approach.	08	CO8

### Reference Books:

Ahuja, H.L (2012): Macroeconomics: Theory and Policy, S. Chand & Company, New Delhi.

Branson, W.A (1989): Macroeconomics Theory and Policy, Harper & Row.

Dornbusch, Rudiger & Startz, Richard (2012): Macroeconomics, Tata McGraw Hill Education.

Dwivedi, D.N (2010): Macroeconomics: Theory and Policy, Tata McGraw Hill Education.

Shapiro, Edward (2005): Macroeconomic Analysis, Galgotia Publications, New Delhi.

Jhingan, M.L (2010): Macroeconomics, Vrinda Publications, New Delhi.

Sikdar, Saumyen (2011): Principles of Macroeconomics, Oxford University Press, New Delhi.

### E-Learning Source:

<https://swayam.gov.in/>

<http://www.ignouhelp.in/ignou-study-material/>

Course Articulation Matrix: (Mapping of COs with POs and PSOs)											
PO-PSO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
CO1	3	3	3	2	3	3	2	3	2	2	2
CO2	3	3	2	2	2	3	3	2	1	3	2
CO3	3	3	2	1	1	3	3	3	2	3	3
CO4	3	2	1	1	1	3	3	1	2	2	2
CO5	2	3	2	1	1	3	3	3	3	3	3
CO6	3	3	2	1	3	3	3	3	3	3	2
CO7	3	3	2	1	2	3	3	3	3	3	3
CO8	3	3	2	1	2	3	3	2	2	3	2

1- Low Correlation; 2- Moderate Correlation; 3- Substantial Correlation

Name & Sign of Program Coordinator	Sign & Seal of HoD
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Effective from Session: 2024-25

Course Code	A080202T/HE110	Title of the Course	Money, Banking and Foreign Exchange	L	T	P	C
Year	I <sup>st</sup>	Semester	II <sup>nd</sup>	5	1	0	6
Pre-Requisite	Intermediate	Co-requisite	None				
Course Objectives	This course exposes students to the theory and functioning of the monetary and financial sectors of the economy. It highlights the organization, structure and role of financial markets and institutions. It also discusses interest rates, monetary management and instruments of monetary control. Financial and banking sector reforms and monetary policy with special reference to India are also covered.						

Course Outcomes	
CO1	Understand simple concepts related with monetary economics and banking theory.
CO2	Understand simple concepts of money supply and demand
CO3	Understand the role of financial and money market in economy.
CO4	Appreciate the potential importance of credit and credit creation
CO5	Demonstrate the role and function of commercial banks.
CO6	Understand the role of central bank in economy.
CO7	Identify the different phase of inflation and its effect.
CO8	Students will be able to understand foreign exchange rate and its theories.

Unit No.	Content of Unit	Contact Hrs.	Mapped CO
1	Evolution of money, Money: Meaning and functions, Classification of money, Qualities of a good money material; Role of money in a developing and mixed economy .	8	CO1
2	The supply and demand for money – Various concepts of money supply, Principles and Methods of Note issue .The demand for money: Classical view of the demand for money, The modern view of the demand for money.	8	CO2
3	Money Market; Meaning, nature and functions, Instruments of Money Market : Treasury Bills, Call Money, Commercial paper, CD, Commercial Bill.	6	CO3
4	Meaning and significance of credit, Types of credit , Factors influencing the Volume of credit in a Country, Credit Creation by Banks, Limitations on the power of banks to create credit.	6	CO4
5	Bank: Meaning and Types of Banks, Commercial Banks: Meaning and functions; Role of Commercial Banks in a developing economy, Process of Credit creation by Commercial Banks	8	CO5
6	Central Bank: Meaning and Functions; Objectives of Credit Control: Qualitative and quantitative Methods of Credit Control; Role of Central Bank in Developing Economy: Difference between Central Bank and Commercial Bank.	8	CO6
7	Inflation and Deflation – Meaning and kinds of Inflation, causes, remedies and effects of inflation. Comparison between inflation and deflation	8	CO7
8	Foreign Exchange Rate – Meaning, Causes of changes in the Exchange rates. Determination of Exchange rate under Mint Parity Theory. The purchasing power Parity Theory.	8	CO8

#### Reference Books:

1.	Chick, V. – The Theory of Monetary Policy.
2.	Day, A.C.L. – An outline of Monetary Economics
3.	Eyler Robert (2009): Money and Banking-An International Text, Routledge.
4.	Gupta, S.B (2009) : Monetary Economics-Institutions, Theory & Policy , S. Chand & Company, New Delhi.
5.	Jhingan, M.L (2012): Monetary Economics, Vrinda Publications, New Delhi.
6.	Johnson H.G. – Essays in Monetary Theory and selected Essays in Monetary Economics.
7.	Khanna, Perminder (2005): Advanced Study in Money and Banking: Theory and Policy Relevance in the Indian Economy, Atlantic.

#### E-Learning Source:

<https://swayam.gov.in/>  
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Course Articulation Matrix: (Mapping of COs with POs and PSOs)											
PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
CO1	3	3	3	-	-	3	-	3	3	1	3
CO2	3	3	3	-	-	3	-	3	3	1	3
CO3	3	3	3	-	3	3	-	3	3	1	3
CO4	3	3	3	-	1	3	-	3	3	2	3
CO5	3	3	3	-	3	3	-	3	3	2	3
CO6	3	3	3	-	3	3	-	3	3	2	3
CO7	3	3	3	-	-	3	2	3	3	3	3
CO8	3	3	3	-	-	3	-	3	3	3	3

1- Low Correlation; 2- Moderate Correlation; 3- Substantial Correlation

Name & Sign of Program Coordinator	Sign & Seal of HoD
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## Integral University, Lucknow

### Effective from Session:

<b>Course Code</b>	A080301T / HE211	<b>Title of the Course</b>	History of Economic Thought	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
<b>Year</b>	II <sup>nd</sup>	<b>Semester</b>	III <sup>rd</sup>	<b>5</b>	<b>1</b>	<b>0</b>	<b>6</b>
<b>Pre-Requisite</b>	Intermediate	<b>Co-requisite</b>	None				
<b>Course Objectives</b>	This course of the history of economic thought covers the economic theories of the past and their evolution and development till date. The study of economic ideas of the past is not only challenging but also enlightening. In this light, this course attempts to make the students of economics acquainted with the evolution of economic ideas as a response to immediate economic problems and policy issues. This course will also help the students to understand how contemporary economics has taken the present shape.						

### Course Outcomes

<b>CO1</b>	To learn and discuss, at an advanced undergraduate level, how economic thought has evolved over time.
<b>CO2</b>	Introducing students to the critical comparison of the contributions of the main schools of economics.
<b>CO3</b>	To introduce & highlight before the students about Indian Economic Thinkers and their valuable contributions to the field of Economics.
<b>CO4</b>	The classical, marginalized revolution and its application to the theories of general and partial equilibrium.
<b>CO5</b>	To Understand the current macroeconomic debate between the neo-classical and the Keynesian school.
<b>CO6</b>	Understand the economics of welfare and Keynesian and post-Keynesian development approaches.
<b>CO7</b>	Analyze the classical, historical, and neo-classical schools of thought.
<b>CO8</b>	Evaluate the contributions of main schools of economics.

Unit No.	Content of Unit	Contact Hrs.	Mapped CO
1	<b>Kautilya's Arthshastra</b> , Dada Bhai Naoroji, <b>G.K. Gokhale</b> , BR Ambedkar, Gandhian Economics.	12	CO1
2	Pt. Deen Dayal Upadhyay, JK Mehta, A K Sen, J. Bhagwati.	12	CO2
3	Early Period: Economic thought of Plato and Aristotle - Doctrines of Just Cost and Just Price.	11	CO3
4	Mercantilism: Main Characteristics; Physiocracy: Natural Order, Primacy of Agriculture, Social Classes, Tableau Economique, Taxation, Turgot – Economic ideas of Petty, Locke, and Hume.	11	CO4
5	Classical Period: Adam Smith - Division of Labour, Theory of Value, Capital Accumulation, Distribution, Views on Trade; David Ricardo, Distribution, Ideas on International Trade; <b>Malthus-Theory of Population</b> , <b>Ricardo-Malthus controversy over Gluts</b> .	11	CO5
6	German Romantics and Socialists — Sismondi, Karl Marx — Dynamics of Social Change, Labour Theory of Value, Surplus Value, Profit, And Theory of Capitalist Crisis; Economic Ideas of J.B. Say, J.S. Mill.	11	CO6
7	Marshall as a Great Synthesizer: Role of Time in Price Determination, Economic Methods, Ideas on Consumer's Surplus, Elasticity, Representative Firm, Quasi-Rent, Pigou: Welfare Economics; Schumpeter.	11	CO7
8	Marginalists: <b>Essential Features of Marginalism</b> , Cournot, and Gossen— The Marginalist Revolution: <b>Jevons theory of value</b> , Walras, and Menger - Bohm-Bawark, Wicksell and Fisher; Economic Ideas of Wicksteed and Weiser.	11	CO8

### Reference Books:

1. Bhatia, H.L: History of Economic Thought, Vikash Publishing House.
2. Blackhouse, R (1985): A History of Modern Economic Analysis, Basil Blackwell, Oxford.
3. 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, Phi Learning.
7. Jhingan, M.L (2008): Aarthik Vicharon Ka Itihas, Vrinda Publications, New Delhi.
8. Kautilya (1992), The Arthshastra, Translated And Introduced By L.N. Rangarajan, Penguin Books.
9. Loknathan, V (2009): History of Economic Thought, S. Chand & Company.
10. Schumpeter, J.A (1954): History of Economic Analysis, Oxford University Press, New York.

### E-Learning Source:

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	Course Articulation Matrix: (Mapping of COs with POs and PSOs)									
PO- PSO CO	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	1	3	1	1	2	1	2	3	1	1
CO2	2	2	2	2	1	3	2	1	3	2
CO3	3	1	3	3	3	2	3	2	2	1
CO4	1	2	1	2	1	1	2	3	1	2
CO5	3	3	2	1	2	3	1	1	2	3
CO6	1	2	2	3	2	2	2	2	1	1
CO7	2	1	3	1	1	1	3	3	1	2
CO8	1	2	2	2	2	3	2	3	2	3

**1- Low Correlation; 2- Moderate Correlation; 3- Substantial Correlation**

Name & Sign of Program Coordinator					Sign & Seal of HoD				





## Integral University, Lucknow

### Effective from Session:

<b>Course Code</b>	A080401T / HE212	<b>Title of the Course</b>	Money, Banking and Public Finance	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
<b>Year</b>	II <sup>nd</sup>	<b>Semester</b>	IV <sup>th</sup>	<b>5</b>	<b>1</b>	<b>0</b>	<b>6</b>
<b>Pre-Requisite</b>	Intermediate	<b>Co-requisite</b>	None				
<b>Course Objectives</b>	This course exposes students to the theory and functioning of the monetary and financial sectors of the economy. It highlights the organization, structure and role of financial markets and institutions. It also discusses interest rates, monetary management and instruments of monetary control. Financial and banking sector reforms and monetary policy with special reference to India are also covered.						

### Course Outcomes

<b>CO1</b>	Understand simple concepts related with monetary economics and banking theory.
<b>CO2</b>	Correlate and apply to current events & key models and concepts of monetary economics and banking theory.
<b>CO3</b>	Appreciate the potential importance of monetary phenomenon in the economy.
<b>CO4</b>	Understand the sources of finance both public and private
<b>CO5</b>	Demonstrate the role of government to correct market failures and possible advantage of public financing.
<b>CO6</b>	Understand the possible burden, benefits and distribution of various types of taxes among various classes of people, know the general trend and impact on general welfare and arouse them to suggest good and bad tax system.
<b>CO7</b>	Identify the different functions of money and how money is related to interest rates;
<b>CO8</b>	Students will be able to understand different types of banks and their functions.

Unit No.	Content of Unit	Contact Hrs.	Mapped CO
1	Money - Meaning, Functions and Classification; Gresham's Law; Principles and Methods of Note Issue. Quantity Theory of Money - Cash Transaction and Cash Balance Approaches; The Keynesian Approach.	12	CO1
2	Supply of Money: Definitions—Determinants of Money Supply, Measures of Money Supply; High Powered Money and Money Multiplier; Indian Currency system.	12	CO2
3	Commercial Banking: Meaning and types; Functions of Commercial Banks; The process of Credit Creation - Purpose and Limitations; Liabilities and Assets of banks; Evolution of Commercial Banking in India after Independence; A Critical Appraisal of the Progress Of Commercial Banking after Nationalization; Latest Trends in Banking Sector.	11	CO3
4	Functions of a Central Bank; Quantitative and Qualitative Methods of Credit Control - Bank Rate Policy, Open Market Operations, Variable Reserve Ratio and Selective Methods; Role and Functions of the Reserve Bank of India; Objectives and Limitations of Monetary Policy with Special Reference to India. Comparison between commercial and Central Banking.	11	CO4
5	Nature and Scope of Public Finance: Meaning and scope of Public Finance; Distinction between Private and Public Finance; Public Goods Vs. Private Goods; The Principle of Maximum Social Advantage; Market Failure.	11	CO5
6	Public Expenditure: Meaning, Classification and Principle of Public Expenditure; Canons and Effects of Public Expenditure; Trends in Public Expenditure and Causes of Growth of Public Expenditure in India.	11	CO6
7	Taxation: Sources of Public Revenue; Taxation — Meaning, Canons and Classification of Taxes; Division of Tax Burden — The Benefit and Ability-To-Pay Approaches; Impact and Incidence of Taxes; Taxable Capacity; Effects of Taxation; Characteristics of A Good Tax System.	11	CO7
8	Fiscal policy: Components, Instruments, Objectives. Role of Fiscal Policy in Developed and Developing Countries, Budget Structure of the Government of India, State Budget- Sources of Revenues and Expenditures. Major Tax Reforms in India. Fiscal Federalism in India: Union-State Fiscal Relations, Federal Fiscal Imbalances and the Role of Finance Commission. Finances of Local Bodies. Finance commission- Recommendation of 15 <sup>th</sup> Finance Commission.	11	CO8

### Reference Books:

1.	Bagchi, Amaresh (2005): Readings in Public Finance, Oxford University Press.
2.	Cullis, John & Jones Philip (2009) : Public Finance and Public Choice, Oxford University Press.
3.	Eyler Robert (2009): Money and Banking-An International Text, Routledge.
4.	Gupta, Janak Raj (2011): Public Economics in India Theory and Practice, Atlantic.
5.	Gupta, S.B (2009) : Monetary Economics-Institutions, Theory & Policy , S. Chand & Company, New Delhi.
6.	Head, J.C (1974): Public Goods and Public Welfare, Durham, NC, Duke University Press.
7.	Inge Kaul, Pedro Conceicao (2006): The New Public Finance, Oxford University Press.
8.	Jhingan, M.L (2012): Monetary Economics, Vrinda Publications, New Delhi.
9.	Khanna, Perminder (2005): Advanced Study in Money and Banking: Theory and Policy Relevance in the Indian Economy, Atlantic.

### E-Learning Source:

	<b>Course Articulation Matrix: (Mapping of COs with POs and PSOs)</b>									
<b>PO- PSO CO</b>	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5
<b>CO1</b>	3	2	3	1	2	1	3	2	1	3
<b>CO2</b>	2	3	2	3	1	2	2	1	1	2
<b>CO3</b>	3	1	3	1	2	3	1	3	2	1
<b>CO4</b>	1	2	1	2	3	1	3	2	1	3
<b>CO5</b>	3	3	2	3	2	3	1	1	2	2
<b>CO6</b>	1	2	3	2	2	2	2	2	3	1
<b>CO7</b>	2	1	1	1	1	3	3	2	1	3
<b>CO8</b>	3	3	2	3	3	3	2	2	2	1

**1- Low Correlation; 2- Moderate Correlation; 3- Substantial Correlation**

<b>Name &amp; Sign of Program Coordinator</b>	<b>Sign &amp; Seal of HoD</b>
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**Effective from Session: 2024-25**

Course Code	A080501T/ HE313	Title of the Course	Economic Growth and Development	L	T	P	C
Year	III <sup>rd</sup>	Semester	V <sup>th</sup>	5	0	0	5
Pre-Requisite	Intermediate	Co-requisite	None				
Course Objectives	The central purpose of this course is to make students familiar with the principal arguments and results of the theories and models of economic growth that have occupied a prominent place in the economic theorizing of the post-war era. The fundamental insights of old and new growth theories will be explained with an emphasis on economics instead of math. However, simple knowledge of calculus is required to accomplish the task. The students will also be made familiar with social cost-benefit analysis, poverty measures and income inequality measures.						

Course Outcomes	
CO1	Students should be able to comprehend the concept and meaning of economic growth and economic development.
CO2	Students should be able to distinguish between economic growth and economic development.
CO3	Students should be able to comprehend the issues and challenges in economic growth and development.
CO4	Students should be able to comprehend and explain the concept of poverty and human development & the related concepts.
CO5	Students should be familiar with the approaches to development.
CO6	Students should be familiar with the different approaches to economic growth.
CO7	Students should be able to understand and explain the factors and variable of economic development.
CO8	Students are able to understand how international factors facilitate and impede economic development.

Unit No.	Content of Unit	Contact Hrs.	Mapped CO
1	Meaning and Measurement of Economic Growth and Development; Measuring Development and Development Gap, GDP, GNP, Per Capita Income, Factors affecting Economic growth and Development.	07	CO1
2	Concept of Poverty and Inequality, Vicious cycle of poverty, Lorenz Curve, Gini Coefficient Concept of Human Development, Human Development Index, Physical Quality of Life Index, Quality of Life Indices. Hunger Index, Happiness Index, Development and Sustainability. Concept of Sustainable Development. Sustainable Development Goals.	07	CO2
3	Lewis model of labour surplus economy, Rosenstein Rodan's theory of Big Push, Nelson's Level equilibrium trap, balanced vs. Un-balanced growth, Rostow's stages of growth, Harrod and Domar Growth models.	07	CO3
4	Theory of Demographic Transition, Population as Limits to Growth. The Concept of Inclusive Growth- with Reference to India. Market Failure and Government Failure, Food Security, Education, Health and Nutrition, Gender and Development.	07	CO4
5	Development & Underdevelopment: an Overview; The Characteristics and Explanations Of Underdevelopment- Vicious Circle of Poverty—Circular Causation, Dualism-Social, Technological, Financial, Organizational, Model of Dual Economy, Lewis, Ranis-Fei, Jorgenson, and Dependency Theories of Underdevelopment.	08	CO5
6	Models of Technical Progress, Embodied and Disembodied Technical Progress, Neutral Technical Progress- Hicks, Harrod, Solow, Kaldor, Arrow's Learning by Doing Approach to Economic Growth.	08	CO6
7	Taxation: Sources of Public Revenue; Taxation — Meaning, Canons and Classification of Taxes; Division of Tax Burden — The Benefit and Ability-To-Pay Approaches; Impact and Incidence of Taxes; Taxable Capacity; Effects of Taxation; Characteristics of A Good Tax System.	08	CO7
8	International Trade, Aid and Finance in the Development of Developing Countries-with special reference to India. FDI & FII, Role of Technology Transfer and Multinational Corporations in promoting development in development of developing countries-with Special Reference to India.	08	CO8

**Reference Books:**

1. Bagchi, Amaresh (2005): Readings in Public Finance, Oxford University Press.
2. Cullis, John & Jones Philip (2009) : Public Finance and Public Choice, Oxford University Press.
3. Eyer Robert (2009): Money and Banking-An International Text, Routledge.
4. Gupta, Janak Raj (2011): Public Economics in India Theory and Practice, Atlantic.
5. Gupta, S.B (2009) : Monetary Economics-Institutions, Theory & Policy , S. Chand & Company, New Delhi.
6. Head, J.C (1974): Public Goods and Public Welfare, Durham, NC, Duke University Press.
7. Inge Kaul, Pedro Conceicao (2006): The New Public Finance, Oxford University Press.
8. Jhingan, M.L (2012): Monetary Economics, Vrinda Publications, New Delhi.
9. Khanna, Perminder (2005): Advanced Study in Money and Banking: Theory and Policy Relevance in the Indian Economy, Atlantic.

**E-Learning Source:**
<https://swayam.gov.in/>

	Course Articulation Matrix: (Mapping of COs with POs and PSOs)										
PO- PSO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
CO1	3	2	3	1	2	1	3	2	1	3	2
CO2	2	3	2	3	1	2	2	1	1	2	1
CO3	3	1	3	1	2	3	1	3	2	1	3
CO4	1	2	1	2	3	1	3	2	1	3	2
CO5	3	3	2	3	2	3	1	1	2	2	1
CO6	1	2	3	2	2	2	2	2	3	1	2
CO7	2	1	1	1	1	3	3	2	1	3	2
CO8	3	3	2	3	3	3	2	2	2	1	2

**1- Low Correlation; 2- Moderate Correlation; 3- Substantial Correlation**

Name & Sign of Program Coordinator	Sign & Seal of HoD
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Effective from Session: 2024-25

Course Code	A080505T / HE316	Title of the Course	Demography and Population studies	L	T	P	C
Year	III <sup>rd</sup>	Semester	V <sup>th</sup>	5	0	0	5
Pre-Requisite	Intermediate	Co-requisite	None				
Course Objectives	This course aims to integrate demographic principles with economic perspectives, emphasizing the intersection of demography and economics in various aspects of economic development and policy formulation. It provides a comprehensive overview of key topics in demography and population studies, covering historical perspectives, theories, measurement techniques, and contemporary issues.						

Course Outcomes	
CO1	Understand simple concepts and relationships related with demography and population.
CO2	To study the population theories and their economic implications.
CO3	Understand the concept of demographic dividend and population structure with its economic significance.
CO4	Understand the concept of fertility and its economic outcomes.
CO5	To study the concept of mortality, health and their economic implications.
CO6	Understand the economic dynamism of migration along with the concepts of brain drain, urbanization and economic growth.
CO7	Understand the population policies and their socio-economic implications along with economic planning.
CO8	Students will be able to identify the contemporary issues at the intersection of demography and economics.

Unit No.	Content of Unit	Contact Hrs.	Mapped CO
1	Introduction to Demography: Definition and Scope of Demography; Historical Development of Demography; Importance and Relevance of Demography; Basic Demographic Concepts: Population, Births, Deaths, Migration; Data Sources in Demography.	08	CO1
2	Population Theories: Malthusian Theory; Demographic Transition Theory; Neo-Malthusianism; Critiques of Population Theories; Contemporary Approaches to Understanding Population Change.	08	CO2
3	Measures of Population Structure: Age-Sex Structure; Dependency Ratio; Population Pyramids; Sex Ratio and Gender Demography; Ethnicity and Population Composition; Demographic dividend.	08	CO3
4	Fertility: Theories of Fertility; Measurement of Fertility: Crude Birth Rate, Total Fertility Rate, etc., Factors Influencing Fertility; Demographic Consequences of High and Low Fertility; Fertility Policies and Interventions.	08	CO4
5	Mortality: Measurement of Mortality- Crude Death Rate, Age-Specific Death Rate; MMR & IMR; Epidemiological Transition; Determinants of Mortality; Life Expectancy; Public Health Interventions and Mortality Reduction.	07	CO5
6	Migration: Types of Migration- Internal, International, Rural-Urban, etc., Theories of Migration; Push and Pull Factors; Impact of Migration on Source and Destination Areas; Government Policies and Migration.	07	CO6
7	Population Policies and Programs: Population Policies Around the World; Family Planning Programs; Population Education and Awareness; National Population Policies; Ethical Issues in Population Policies.	07	CO7
8	Contemporary Issues in Demography: Urbanization and Demographic Shifts; Aging Population and its Implications; Global Population Trends; Environmental Impact of Population Growth; Emerging Challenges and Future Prospects.	07	CO8

#### Reference Books:

1. Krishnamurthy, Srinivasan: Population Concerns in India, Sage publication Pvt Ltd.
2. Bhende, Asha: Principles of Population Studies, Himalaya Publishing House.
3. Jain, R.K.: Textbook of Population Studies,
4. Sharma, Rajendra (2022): Demography and Population Problems, Paperback.
5. Jhingan, M.L.: Demography, Vrinda Publications, New Delhi.
6. Agarwala S.N. India's Population Problem, Tata McGraw-Hill Co., Bombay.

#### E-Learning Source:

<https://swayam.gov.in/>  
<http://www.ignouhelp.in/ignou-study-material/>

Course Articulation Matrix: (Mapping of COs with POs and PSOs)											
PO-PSO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
CO1	3	2	3	1	2	1	3	2	1	3	1
CO2	2	3	2	3	1	2	2	1	1	2	1
CO3	3	1	3	1	2	3	1	3	2	1	3
CO4	1	2	1	2	3	1	3	2	1	3	3
CO5	3	3	2	3	2	3	1	1	2	2	3
CO6	1	2	3	2	2	2	2	2	3	1	2
CO7	2	1	1	1	1	3	3	2	1	3	3
CO8	3	3	2	3	3	3	2	2	2	1	3

1- Low Correlation; 2- Moderate Correlation; 3- Substantial Correlation

Name & Sign of Program Coordinator	Sign & Seal of HoD
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Effective from Session: 2024-25

Course Code	A080506T / HE317	Title of the Course	Political Economy	L	T	P	C
Year	III <sup>rd</sup>	Semester	V <sup>th</sup>	5	0	0	5
Pre-Requisite	Intermediate	Co-requisite	None				
Course Objectives	It goes on to study the consequences of globalization, especially of financial flows, for the role of the state, economic performance, gender issues, environment, human welfare and development.						

### Course Outcomes

CO1	Students will gain a nuanced understanding of the political economy perspective with a historical overview.
CO2	Students will be proficient in analyzing the shifting dynamics of capitalist production.
CO3	Students will demonstrate a comprehensive understanding of various types of labor.
CO4	Students will possess a thorough understanding of the impact of globalization on the welfare state.
CO5	Students will adeptly analyze the evolving role of finance in the processes of capital accumulation and corporate structure.
CO6	Students will be proficient in employing the method of historical materialism to analyze social change.
CO7	Students will exhibit a nuanced understanding of the intricate relationship between the state and the economy.
CO8	Students will proficiently analyze the social dimensions of globalization.

Unit No.	Content of Unit	Contact Hrs.	Mapped CO
1	<b>INTRODUCTION AND HISTORICAL OVERVIEW:</b> Perspective on political economy with a historical overview; Capitalist development in the present world war period, the 'golden age' and later.	7	CO1
2	<b>CHANGING DYNAMICS OF CAPITALIST PRODUCTION &amp; ORGANISATIONAL</b> Fordist and post-fordist production; changing dynamics of organisation of production Markets	7	CO2
3	<b>LABOUR MARKETS</b> Types of Labour, Labour Market and its characteristics, Labour process and the changing nature of job security. Labour rights	7	CO3
4	<b>THE STATE IN THE ERA OF GLOBALISATION:</b> Globalisation and the limits of the welfare state, development and state autonomy.	7	CO4
5	<b>THE CHANGING ROLE OF FINANCE:</b> The changing role of finance in capital accumulation and corporate structure; finance and globalisation – financialisation, financial liberalisation and financial crisis.	8	CO5
6	<b>ANALYSING SOCIAL CHANGE IN HISTORICAL PERSPECTIVE:</b> The method of historical materialism; the transition from feudalism to capitalism; capitalism as a historical process – alternative perspectives.	8	CO6
7	<b>THE STATE IN CAPITALISM:</b> The state and the economy – contestation and mutual interdependence; the state as an arena of conflict; imperialism – the basic foundations. <b>CAPITALISM AS AN EVOLVING ECONOMIC SYSTEM:</b> Basic features; accumulation and crisis; the modern corporation; monopoly capitalism – alternative perspectives.	8	CO7
8	<b>THE SOCIAL DIMENSION:</b> Globalisation and uneven development – growth, inequality and exclusion Gender in work, accumulation and globalisation; issues in environment and sustainability; alternatives ahead.	8	CO8

### Reference Books:

1. Michel Beaud, A History of Capitalism, 1500-2000, trans. by Tom Dickman and Anny Lefebvre, New York: Monthly Review Press, 2001.
2. Ash Amin (ed.), Post-Fordism: A Reader, Blackwell, 1994
3. Fran Tonkiss, Contemporary Economic Sociology: Globalisation, Production, Inequality, Chapter 4 (Fordism and After), Routledge India 2008 reprint, 2006.
4. S. Hymer, 1975, "The Multinational Corporation and the Law of Uneven Development", in H. Radice (ed.) International Firms and Modern Imperialism, Penguin Books.
5. G. Gereffi, J. Humphrey and T. Sturgeon, 2005, "The Governance of Global Value Chains", Review of International Political Economy, Volume 12, pp. 78–104.

### E-Learning Source:

- Swayam
- Coursera

### Course Articulation Matrix: (Mapping of COs with POs and PSOs)

PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7				
CO1	3	3	3	-	-	3	-	3	3	1	3
CO2	3	3	3	-	-	3	-	3	3	1	3
CO3	3	3	3	-	3	3	-	3	3	1	3
CO4	3	3	3	-	1	3	-	3	3	2	3
CO5	3	3	3	-	3	3	-	3	3	2	3
CO6	3	3	3	-	3	3	-	3	3	2	3
CO7	3	3	3	-	-	3	2	3	3	3	3
CO8	3	3	3	-	-	3	-	3	3	3	3

1- Low Correlation; 2- Moderate Correlation; 3- Substantial Correlation

Name & Sign of Program Coordinator	Sign & Seal of HoD
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Effective from Session: 2024-25

Course Code	A080503T/HE315	Title of the Course	International Economics	L	T	P	C
Year	III <sup>rd</sup>	Semester	V <sup>th</sup>	5	0	0	5
Pre-Requisite	Intermediate	Co-requisite	None				
Course Objectives	The objectives of the course are - to enable the students to learn the fundamental theories of international economics; and enable them to understand the international trade system and its implications for the national economy in modern days.						

Course Outcomes	
CO1	To understand and explain the concept, need, significance, and scope of international economics.
CO2	To familiar with the approaches of international trade.
CO3	To understand economic integration at the global level and the formation of groups.
CO4	To know about the concept of balance of payments, exchange rate, and devaluation.
CO5	To understand the theories of international trade.
CO6	To know about International Financial Institutions.
CO7	To understand various quantitative restrictions.
CO8	To know about foreign exchange rate and its determination.

Unit No.	Content of Unit	Contact Hrs.	Mapped CO
1	Need, Significance and Scope of International Economics. The Classical Theories of Trade- Adam Smith, David Ricardo; Opportunity Cost Approach; Terms of Trade-Meaning and Concepts, Factors affecting Terms of Trade.	8	CO1
2	Free Trade and Protection-Meaning of Free Trade, Arguments For and Against Free Trade, Meaning of Protection, Arguments for Protection Economic and Non-Economic Arguments; Protection and Less Developed Countries.	7	CO2
3	Theories and Forms of Economics Integration-Meaning & Benefits; Forms of Economic Integration- Custom Union: Production and Consumption Effects of Customs Union; Problems Involved in the Formation of Customs Union; Political Economy of Protection; SAFTA, BRICS.	8	CO3
4	Balance of Payments-Concepts; Adjustment Mechanisms of Balance of Payments- Adjustment Through Variations in Exchange Rates, Devaluation and Balance of Payments Adjustment, The Elasticity Approach, Marshall-Lerner Condition	8	CO4
5	Heckscher-Ohlin Theorem, The Leontief Paradox, Post-Heckscher-Ohlin Theories of Trade, Effects of Growth on International Trade- Production & Consumption Effects, Export Pessimism, Immiserising Growth; Gains from Trade-Meaning and Types, Factors Determining Gains from Trade.	7	CO5
6	International Financial Institutions- IMF, WORLD BANK, ADB; GATT, WTO- TRIPS & TRIMS, WTO and India; UNCTAD, North-South Trade Dialogue, South-South Cooperation; Globalization; FDI	7	CO6
7	Quantitative Restrictions: Quota-Meaning, objectives, Types, and Effects of Import Quotas; Tariffs-Meaning Types and Effects of Tariffs; Non-Tariff Barriers-Meaning, Classification, and Types	7	CO7
8	Foreign Exchange-Meaning and Instruments, Exchange Rate Determination, Mint Par Parity theory, Purchasing Power Parity Theory, Hedging, Foreign Exchange Rate Policy- Fixed, Flexible & Multiple Exchange Rate System; Convertibility of Rupee in Current Account and Capital Account,	8	CO8

#### Reference Books:

1.	Bhatia, H.L (2006) :International Economics, Vikash Publishing House
2.	Field, Alfred.J & Appleyard, Dennis.R (2013) : International Economics, McGraw Hill Education
3.	Gerber, James (2012) : International Economics, Pearson.
4.	Krugman, Paul.R & Obstfeld, Maurice (2008) : International Economics, Pearson.
5.	Salvatore, Dominick (2012) : International Economics: Trade & Finance, Wiley Publishers.

#### E-Learning Source:

<https://swayam.gov.in/>  
<http://www.ignouhelp.in/ignou-study-material/>

PO-PSO CO	Course Articulation Matrix: (Mapping of COs with POs and PSOs)										
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
CO1	3	2	3	1	1	1	2	3	2	1	3
CO2	3	3	2	1	1	2	3	2	1	1	2
CO3	3	1	3	1	1	3	3	1	3	2	1
CO4	3	2	2	1	1	1	2	3	2	1	3
CO5	3	2	2	1	1	3	3	1	1	2	2
CO6	3	2	3	1	1	2	3	2	2	3	1
CO7	2	1	2	1	1	3	3	3	2	1	3
CO8	3	2	2	1	1	3	2	2	2	2	1

1- Low Correlation; 2- Moderate Correlation; 3- Substantial Correlation

Name & Sign of Program Coordinator	Sign & Seal of HoD
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Effective from Session: 2024-25

Course Code	A080502T / HE314	Title of the Course	Environmental Economics	L	T	P	C
Year	III <sup>rd</sup>	Semester	V <sup>th</sup>	5	0	0	5
Pre-Requisite	Intermediate	Co-requisite	None				
Course Objectives	Students should be familiar with the basic concepts of ecology environment and economy, the solution to environmental problems, tax tradable pollution permit, carbon trading. They are made familiar with the concept of Sustainable development, environmental impact assessment along with Global and local environmental concerns.						

### Course Outcomes

CO1	Students should be familiar with the basic concepts of ecology, pareto optimality, market failure, environment and economy.
CO2	Students to understand the environmental policies and implementation along with NAPCC.
CO3	Students to study the environmental valuation methods and its applications.
CO4	Students to understand sustainable development goals (SDGs) and Identify India's stand.
CO5	Understand the concept of positive and negative externalities along with property rights and Coase's theorem.
CO6	Study the concept of green accounting, pollution and environmental valuation methods.
CO7	Understand environmental management and education along with environmental impact assessment.
CO8	Understand the Global and local environmental concerns and climate change along with the trade under WTO regime.

Unit No.	Content of Unit	Contact Hrs.	Mapped CO
1	Introduction: Ecosystem and Ecological cycles, Pareto optimality and market failure in the presence of externalities; property rights and other approaches, International Environmental Issues and Legislations, Carbon Trading.	07	CO1
2	The Design and Implementation of Environmental Policy: Overview, effluent fees, tradable permits, implementation of environmental policies in India and international experience; transboundary environmental problems; National Action Plan for Climate Change (NAPCC).	08	CO2
3	Environmental Valuation Methods and Applications: hedonic property values and household production models, Valuation of nonmarket goods and services--theory and practice; measurement methods; cost-benefit analysis of environmental policies and regulations.	07	CO3
4	Sustainable Development: Concepts; measurement; perspectives from Indian experience. Sustainable Development Goals (SDGs) and India's position.	07	CO4
5	The Theory of Externality- Positive & Negative Externality; Public Goods; Private Goods; Public Bads; Market Failure and Pigouvian Tax.; Coase's Theorem and Property Rights; Eco-Labeling.	07	CO5
6	Green Accounting; Environmental Valuation- Meaning, Need for Environmental Valuation, Methods of Environmental Valuation; Difficulty in Measuring Environmental Values, Environmental Damages and Its Valuation, Types of pollution and its controlling measures.	08	CO6
7	Indian Constitution and the Environment; Environmental Management: Meaning and Concept, Objectives and Goals, Obstacles; Environmental Impact Assessment; Environmental Education in India, Micro planning for environment preservation – water sheds joint forest management and self-help groups.	08	CO7
8	Population and Environment; International Trade and Environment under WTO; Climate Change- Meaning and Concept, Ozone Depletion, Acid Rain, Global Warming and Greenhouse Effect; Indian Environmental Issues and Legislations; Role of Judiciary in Environmental Protection and Conservation;	08	CO8

### Reference Books:

1. Bharucha, Erach : Paryavaran Adhyann, Orient Blackswan.
2. Bhattacharya, Rabindra Nath (2002): Environmental Economics – An Indian Perspective, Oxford University Press.
3. Eugene, T (2005): Environmental Economics, Vrinda publications, Delhi.
4. Jhingan, M.L. & Sharma, C.K (2009): Environmental Economics Theory Mgt & Policy, Vrinda publications, Delhi.
5. Kolstad, Charles. D (2012): Intermediate Environmental Economics, Oxford University Press.
6. Nagre, Vijay H (2012): Environmental Economics, Chandralok Prakashan.

### E-Learning Source:

<https://swayam.gov.in/>  
<http://www.ignouhelp.in/ignou-study-material/>

### Course Articulation Matrix: (Mapping of COs with POs and PSOs)

PO-PSO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
CO1	3	2	2	2	2	1	2	2	1	3	3
CO2	3	1	2	2	2	2	2	1	1	2	3
CO3	3	1	2	2	2	1	2	3	2	1	2
CO4	3	2	1	2	3	2	2	2	1	3	3
CO5	3	2	2	2	3	2	2	1	2	2	3
CO6	3	2	2	2	3	2	2	2	3	1	2
CO7	3	1	1	2	2	1	2	2	1	3	2
CO8	3	2	2	2	3	2	2	2	2	1	3

1- Low Correlation; 2- Moderate Correlation; 3- Substantial Correlation

Name & Sign of Program Coordinator	Sign & Seal of HoD
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Effective from Session: 2024-25

Course Code	A080504R/HE318	Title of the Course	Elementary Statistics based Project	L	T	P	C
Year	III <sup>rd</sup>	Semester	V <sup>th</sup>	3	0	0	3
Pre-Requisite	Intermediate	Co-requisite	None				
Course Objectives	Students will understand the basic concept skills of writing term papers based on the understanding of the subject.						

## Course Outcomes

CO1	Understand simple concepts related with Statistics.
CO2	Correlate and apply to current events & key models and concepts of monetary economics and banking theory.
CO3	Appreciate the potential importance of monetary phenomenon in the economy.
CO4	Understand the sources of finance both public and private

Unit No.	Content of Unit	Contact Hrs.	Mapped CO
1	Introduction to Basic Concepts in Statistics: Population, Sample, Parameter, Data-Meaning & types. Questionnaire, Schedule & Interview Schedule (meaning, concept & types), Frequency Distribution, Cumulative frequency; Graphic and Diagrammatic representation of data.	11	CO1
2	Measures of Central Tendency - Mean, Median, Mode, Geometric mean and Harmonic mean. (Meaning, concept, properties). Measure of Dispersion: Range, Mean Deviation, Standard deviation, Coefficient of Variation, Quartile deviation, Skewness and Kurtosis	11	CO2
3	Correlation: Meaning, Concept, Types & Properties. Methods of Regression: Meaning and Concept. Least squares method, Interpretation of Regression Coefficients. Meaning, concept & types of Sampling. Meaning & concept of Hypothesis & hypothesis testing.	11	CO3
4	Time Series: Concept, Meaning & Components - Determination of Regular, Trend and Seasonal Indices. Index Number: Concept, Classification of Index Numbers, Consumer Price Index(CPI), Whole Sale Price Index (WPI), Methods of Construction of Index Numbers- Unweighted & Weighted indices.	12	CO4

## Reference Books:

1. Gupta, S.P (2011) : Statistical Methods, Sultan Chand & Sons, Delhi.
2. Leighton, Thomas (2011) : Using Statistics in Economics, Tata McGraw Hill Education.
3. Lind, Wathen & Marchal (2013): Basic Statistics for Business & Economics, McGraw Hill Education.
4. Newbold, Paul (2008) : Statistics for Business and Economics, Pearson Education.

## E-Learning Source:

<https://swayam.gov.in/>  
<http://www.ignouhelp.in/ignou-study-material/>

Course Articulation Matrix: (Mapping of COs with POs and PSOs)											
PO-PSO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
CO1	3	2	3	1	2	1		3	2	1	3
CO2	2	3	2	3	1	2		2	1	1	2
CO3	3	1	3	1	2	3		1	3	2	1
CO4	1	2	1	2	3	1		3	2	1	3

1- Low Correlation; 2- Moderate Correlation; 3- Substantial Correlation

Name & Sign of Program Coordinator	Sign & Seal of HoD
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Effective from Session: 2022-25

Course Code		A080601T / HE319		Title of the Course		Indian Economy & Economy of Uttar Pradesh		L	T	P	C	
Year		III <sup>rd</sup>		Semester		VI <sup>th</sup>		5	0	0	5	
Pre-Requisite		Intermediate		Co-requisite		None						
Course Objectives		This course exposes students to understanding of the Indian Economy & Economy of Uttar Pradesh. It highlights the organization, structure and role of studying Indian Economy.										
Course Outcomes												
CO1	Students should be able familiar with the basic characteristics of Indian economy											
CO2	Students should be able to understand the industrial reform.											
CO3	Students should be familiar with the industrial policies.											
CO4	Students should be able to understand the role of planning in India.											
CO5	Students are able to understand the importance, causes and impact of population growth and its distribution, translate and relate them with economic development.											
CO6	Students should be able familiar with the it's potential on natural resources of Indian economy and the economy of Uttar Pradesh.											
CO7	Students are able to develop an understanding about Uttar Pradesh , its demographic feature, natural resources and factors that cn stimulate its economic growth and development.											
CO8	Students should be familiar with the rural development of Uttar Pradesh over the period of time.											
Unit No.	Content of Unit								Contact Hrs.	Mapped CO		
1	Concept, Nature and structure of Indian Economy: Indian economy as a Developing Economy. Comparative Development of Indian States.								7	CO1		
2	Agricultural Sector: Features of Agriculture sector in India, Problems and Remedies. Institutional Reforms, Technological change in Agriculture, Terms of Trade between Agriculture and Industry; Agricultural Policy, Policies for Sustainable Agriculture. Agrarian Crisis and Agricultural Labour.								7	CO2		
3	The Industrial Sector: Industrial Policy; Public Sector Enterprises and their Performance, Privatization and Disinvestment debate, Small, Medium and Large-scale Sector, Industrial Labour, trade Union Movement. MSMEs.								7	CO3		
4	Planning in India: Objectives and Strategy of Planning; Success story of Indian Plans; Strategy of Inclusive Growth. Resource mobilization for Development. NITI Ayog.								7	CO4		
5	Nature, Features, Demographic Profile and Status of Natural Resources. Major Factors affecting growth and development in Uttar Pradesh. Role of Economic and non-economic factors in economic development of Uttar Pradesh								8	CO5		
6	Sectoral growth pattern in Uttar Pradesh; Economic growth in Uttar Pradesh and Indian economy: A comparison. Infrastructural development of Uttar Pradesh								8	CO6		
7	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.								8	CO7		
8	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).								8	CO8		
Reference Books:												
1. Agarwal,,M K (2009): Uttar Pradesh ka Arthik Vikas. New Royal Book Company												
2. Annual Financial Statement (Budget) of the Government of Uttar Pradesh published in different years & the latest.												
3. Annual Financial Statement (Budget) of the Government of Uttar Pradesh published in different years & the latest												
4. Annual Financial Statement (Budget)various years & Latest published by the Government of India												
5. Indian Economy by Mishra & Puri. Himalaya Publishing House (Hindi /English)												
6. Indian Economy. Rudra Dutt & Sunderam. S. Chand & Company (Hindi /English)												
7. Mishra, Arvind Narayan & Atul Chandra (2018):The Economy of Uttar Pradesh. Gutenberg Publication ISBN: 9789386240224, 9789386240224												
8. Publications of the Government of Uttar Pradesh.												
9. Uttar Pradesh State Development Report, Volume I & II, State Plan Division, Planning Commission												
E-Learning Source:												
<a href="https://swayam.gov.in/">https://swayam.gov.in/</a>												
	Course Articulation Matrix: (Mapping of COs with POs and PSOs)											
PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4	
CO1	3	3	3	-	-	3	-	3	3	1	3	
CO2	3	3	3	-	-	3	-	3	3	1	3	
CO3	3	3	3	-	3	3	-	3	3	1	3	
CO4	3	3	3	-	1	3	-	3	3	2	3	
CO5	3	3	3	-	3	3	-	3	3	2	3	
CO6	3	3	3	-	3	3	-	3	3	2	3	
CO7	3	3	3	-	-	3	2	3	3	3	3	
CO8	3	3	3	-	-	3	-	3	3	3	3	

1- Low Correlation; 2- Moderate Correlation; 3- Substantial Correlation

<p>Name &amp; Sign of Program Coordinator</p>	<p>Sign &amp; Seal of HoD</p>
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**Effective from Session: 2024-25**

Course Code	A080603T/ HE322	Title of the Course	Econometric Theory and Application	L	T	P	C
Year	III <sup>rd</sup>	Semester	VI <sup>th</sup>	5	0	0	5
Pre-Requisite	Intermediate	Co-requisite	None				
Course Objectives	Though Econometrics is an amalgam of economic theory, mathematical economics and statistical theory, it needs to be studied separately for many reasons. Econometric methods have proved particularly useful for understanding the interrelationships in the economic variables. Use of econometrics has given greater precision in establishing such relationships. The syllabus includes the basic concepts of estimation and the estimation of linear regression model by applying OLS method. The students are also supposed to learn the problems associated with OLS estimation like auto-correlation, Heteroscedasticity and Multicollinearity. The lag econometric models along with the use of dummy variables are also a part of the syllabus. Hope all these will add vigor to the understanding of economic problems.						

Course Outcomes	
CO1	Understand Various Natures of Econometrics and Economic Data.
CO2	Understand and Evaluate Theoretical Frequency Distribution.
CO3	Evaluate Consequences and Find Remedial Measures if CLRM Assumptions are Violated.
CO4	Evaluate Consequences and Find Remedial Measures if GLRM Assumptions are Violated.
CO5	Understand the Problems in OLS Estimation.
CO6	Understand the Concept of Lag Model & Dummy Variables.
CO7	Understand the Concept of Time Series and its Application in Economics and Finance.
CO8	Understand the Concept of Lag Model & Dummy Variables.

Unit No.	Content of Unit	Contact Hrs.	Mapped CO
1.	<b>Nature of Econometrics and Economic Data:</b> Definition of Econometrics & Scope of Econometrics– Steps in Empirical Economic Analysis - Econometric Model – The Role of Measurement in Economics – The Structure of Economic Data: Cross-Sectional data, Time Series data, Pooled Cross Section data, Panel Data.	07	CO1
2.	<b>Theoretical frequency distribution:</b> Theoretical frequency distribution and application of binomial, Poisson and normal; Testing of hypothesis; Type-I and Type-II errors; Standard errors, Tests based on Z, t and $\chi^2$ (Chi-square) statistics.	07	CO2
3.	<b>Simple Linear Regression Model:</b> Assumptions, estimation (through OLS method), desirable properties of estimators; Gauss-Markov Theorem, interpretation of regression coefficients, Testing of regression coefficients, Test for regression as a whole, Coefficient of determination.	07	CO3
4.	<b>General linear regression model:</b> Assumptions, Estimation, and interpretation of regression coefficients; Testing of regression coefficient; Test for regression as a whole, Coefficient of determination; Non-linear models and their estimation.	07	CO4
5.	<b>Problems in OLS Estimation:</b> Problems of Heteroscedasticity; Auto correlation (first order); Multicollinearity– consequences, tests and remedies	08	CO5
6.	<b>Lag Model &amp; Dummy variables:</b> Introduction– Types of Lag schemes - Koyck lag model, Partial Adjustment and Adaptive Expectations models. Dummy variables- Nature of Dummy variables- Use of Dummy Variables – Errors in Variables and its consequences; Use of dummy variables for pooled data; Proxy variables – Concept and uses.	08	CO6
7.	<b>Time series method:</b> Stationarity, unit roots, co-integration-spurious regression, Dickey-Fuller test: Causality in Economics – The Granger Causality Test. Random walk model, Error correction mechanism, ARMA model; Identifying ARMA; Vector auto-regression; Problems with VAR modelling – Applications.	08	CO7
8.	<b>Simultaneous Equations Method:</b> Specification – Simultaneous Bias – Inconsistency of OLS Estimators - The concept of Identification, Rank and Order conditions for Identification – Indirect Least Squares – Two stage Least Squares (without proof), Problems.	08	CO8

**Reference Books:**

Amemiya, T. (1985), Advanced Econometrics, Harvard University Press, Cambridge, Mass.

Koutsoyiannis, A. (1977), Theory of Econometrics (2nd ed.), The Macmillan Press Ltd., London.

Theil, H. (1981), Introduction to Econometrics, Prentice Hall of India, New Delhi

Gujarati, D.N. (1995), Basic Econometrics (2nd Edition), McGraw Hill, New Delhi.
Wooldridge, Jeffery M: Econometrics, Cengage Learning India Pvt. Ltd, New Delhi.
Dongherty, C. (1992), Introduction to Econometrics, Oxford University Press, New York.
Goldberger, A.S. (1998), Introductory Econometrics, Harvard University Press, Cambridge, Mass.
Hill R.C., E.G. William and C.G. Judge (1997), Undergraduate Econometrics, Wiley, New York.
Maddala, G.S. (Ed.) (1993), Econometrics Methods and Application (2 Vols.), Adershot U.K.
<b>E-Learning Source:</b>
<a href="https://swayam.gov.in/">https://swayam.gov.in/</a> <a href="http://www.ignouhelp.in/ignou-study-material/">http://www.ignouhelp.in/ignou-study-material/</a>

	Course Articulation Matrix: (Mapping of COs with POs and PSOs)										
PO- PSO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
CO1	3	2	3	1	2	1	3	2	1	3	2
CO2	2	3	2	3	1	2	2	1	1	2	1
CO3	3	1	3	1	2	3	1	3	2	1	3
CO4	1	2	1	2	3	1	3	2	1	3	2
CO5	3	3	2	3	2	3	1	1	2	2	1
CO6	1	2	3	2	2	2	2	2	3	1	2
CO7	2	1	1	1	1	3	3	2	1	3	2
CO8	3	3	2	3	3	3	2	2	2	1	2

**1- Low Correlation; 2- Moderate Correlation; 3- Substantial Correlation**

Name & Sign of Program Coordinator	Sign & Seal of HoD
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Effective from Session: 2024-25													
Course Code		A080606T / HE323		Title of the Course		Industrial Statistical Overview- Practical Approach				L	T	P	C
Year		III <sup>rd</sup>		Semester		V <sup>th</sup>				5	0	0	5
Pre-Requisite		Intermediate		Co-requisite		None							
Course Objectives		The course focuses on a set of countries, which followed clearly diverse trajectories and patterns of growth to achieve their industrial											
Course Outcomes													
CO1	Students will develop theoretical understanding regarding various Statistical Organization and its Scope and Coverage.												
CO2	Students will have understanding of the Population Statistics and the Utility of population statistics.												
CO3	After the completion of the course the students will be able to understand Agriculture Statistics and Indices of Agricultural Production.												
CO4	They will be able to understand Industrial Statistics.												
CO5	The course will serve as a good base for further higher research studies etc												
CO6	Students will have understanding of Financial Statistics, Price Statistics.												
CO7	Students will have understanding of Wage Statistics and Trade Statistics.												
CO8	Student will have knowledge of National Income Statistics & National Sample Survey (NSS).												
Unit No.	Content of Unit									Contact Hrs.	Mapped CO		
1	Statistical Organization Statistical Organization: Early beginnings; 18th Century; 19th Century; 20th Century; Present Position. Improvement in Methodology, Scope and Coverage									8	CO1		
2	Population Statistics Census Procedure Upto 1931; Change in 1941; Census of 1951; Information collected, General Criticism of Indian Population Census; Census of 1961 – Some suggestions. Vital Statistics –Shortcomings, Demographic Surveys, Utility of population statistics									7	CO2		
3	Agriculture Statistics Area Statistics; temporarily settled areas and permanently settled areas; Yield Statistics; Traditional Method; Random Sampling Method; Crop-estimates J Land Utilization Statistics; Publication on Agricultural Statistics; General Shortcomings of Agricultural Statistics, Indices of Agricultural Production: Reserve Bank of India Index; Eastern Economist Index; F.A.O. Index. Miscellaneous Agricultural Statistics: Livestock Statistics-Statistics of Holdings; Forest Statistics of Mines and Minerals.									7	CO3		
4	Industrial Statistics Early Statistics, Present Position, Annual Census of Manufacturers; Statistics of Industrial Output, Indices of Industrial Production and Profit : Eastern Economists Index, Index used by Ministry of Commerce and Industry, Capital Index of Industrial Activity.									8	CO4		
5	Financial Statistics Publication containing financial statistics and their study									7	CO5		
6	Price Statistics Harvest Prices; Other prices. Publication containing price statistics Price Index Number: Index Number of Harvest Prices, Economic Adviser’s Index of Wholesale Prices; Economic Adviser’s Index of Wholesale Prices.									8	CO6		
7	Wage Statistics and Trade Statistics Publication containing Wage Statistics – Labour bureau Index of Earnings of Factory Workers. Agriculture Wages, Publication containing Statistics of Inland and Foreign (Sea, Air and Land) Trade of India and their detailed study									7	CO7		
8	National Income Statistics & National Sample Survey (NSS) Important Methods of Calculation; Difficulties in the calculation of India’s National Income; Technique suitable to Indian Condition; Estimate of India’s National Income; Special feature of India’s National Income Beginning Method (NSS); First round ; Subsequent rounds; Assessment of results and Information collected.									8	CO8		
Reference Books:													
1. Elhance, D. N. (1962). Fundamentals of statistics. Kitab Mahal.													
2. UNIDO. Handbook of Industrial Statistics.													
3. UNIDO. International Yearbook of Industrial Statistics.													
4. UNIDO. Industrial Development Report.													
E-Learning Source:													
• Swayam													
	Course Articulation Matrix: (Mapping of COs with POs and PSOs)												
PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7						
CO1	3	3	3	-	-	3	-	3	3	1	3		
CO2	3	3	3	-	-	3	-	3	3	1	3		
CO3	3	3	3	-	3	3	-	3	3	1	3		
CO4	3	3	3	-	1	3	-	3	3	2	3		
CO5	3	3	3	-	3	3	-	3	3	2	3		
CO6	3	3	3	-	3	3	-	3	3	2	3		
CO7	3	3	3	-	-	3	2	3	3	3	3		
CO8	3	3	3	-	-	3	-	3	3	3	3		

1- Low Correlation; 2- Moderate Correlation; 3- Substantial Correlation

Name & Sign of Program Coordinator	Sign & Seal of HoD
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Effective from Session: 2024-25

Course Code	A080602T / HE320	Title of the Course	Agriculture Economics	L	T	P	C
Year	III <sup>rd</sup>	Semester	VI <sup>th</sup>	5	0	0	5
Pre-Requisite	Intermediate	Co-requisite	None				
Course Objectives	This course exposes students to the basics of agriculture economics and the labour issues in agriculture sector. It explains the significance of agriculture in the economic growth and economic development of an economy.						

Course Outcomes	
CO1	Understand the interrelationship between agriculture and industries through agricultural development models.
CO2	Study the agricultural production function and agricultural price policy in India.
CO3	Understand the concept of rural poverty and poverty alleviation programmes along with the problems and policies of agricultural labour.
CO4	Understand the current issues in Indian agriculture.
CO5	Demonstrate the role of agriculture in economic growth and development in India.
CO6	Understand the concept of green revolution and significance of land reforms in India.
CO7	Identify the role of institutional and non-institutional credit in agricultural development of India.
CO8	Students will be able to understand the concept of agricultural marketing and agricultural diversification in India.

Unit No.	Content of Unit	Contact Hrs.	Mapped CO
1	Models of Agricultural Development: W. A. Lewis model, Fei & Ranis Model, Inter relationship between agriculture and industry. Challenges & Issues Regarding Agricultural Area Expansion, Production and Productivity in India.	07	CO1
2	Agricultural Production Function, Supply Response, Farm Size, Returns to Scale and Productivity; Agricultural Price Policy in India, Agricultural policy in India since 1947 – institutional and technological changes; impact on production, productivity and environment.	08	CO2
3	Labour in Agriculture, Labour and Work Force in Rural Farm and Non-Farm Sectors. Agricultural Labour- Problem and Policy. Concept and Measurement of Rural Poverty & Employment, Poverty Alleviation Programmes (in brief-the Objectives, Achievements & the Shortcomings).	07	CO3
4	Current Issues in Indian Agriculture- Poverty & Food Security in India, Agro- Subsidies in India. Export and Imports of Agricultural Commodities, WTO and Indian Agriculture-Bali Negotiations, Bio – technological practices and growth potential.	08	CO4
5	Role Of Agriculture in Economic Growth and Development in India. Backward, Forward Linkage between Agriculture and Industry, Approaches towards Agriculture and Allocation of Resources under Different Plans in India. Employment Elasticity in Indian Agriculture	07	CO5
6	Land Reforms in India & Its Contemporary Relevance, Green Revolution and the Need for Second Generation Green Revolution, Role of Infrastructural Support-Irrigation, Power, Seeds Fertilizers, Marketing Support System and Roads in Agricultural Development in India.	08	CO6
7	Role of Credit in Agricultural Development, Institutional & Non-Institutional Sources of Credit in India, Cooperative Movement in India (In Brief). Role of Schedule Commercial Banks, Lead Banks, Regional Rural Banks and NABARD to Promote Agricultural Development, Risk and uncertainty in agriculture – crop insurance.	08	CO7
8	Agricultural Marketing: Meaning and Concept. Structure of Agricultural Markets in India, Issues and Challenges in the Marketing of Agricultural Products in India. Agricultural Diversification: Meaning, Concept & Issues. Crop Diversification: Meaning, Concept and Issues.	07	CO8

#### Reference Books:

1. Bardhan, P. (1984) Land, Labour and Poverty; Essays in Economic Development, OUP, New Delhi.
2. Bhaduri, A. (1984), The Economic Structure of Backward Agriculture; Macmillan, Delhi.
3. Bhalla, G.S., (2007) Indian Agriculture since Independence, National Book Trust, India.
4. Bharadwaj, K. (1974), Production Condition in India Agriculture; OUP, Cambridge.
5. Black, J.D, (1953) Introduction to Economics for Agriculture, Macmillan.
6. Dash, Mrutyunjay (2013): Agricultural Economics, Anmol Publications.

#### E-Learning Source:

<https://swayam.gov.in/>  
<http://www.ignouhelp.in/ignou-study-material/>

Course Articulation Matrix: (Mapping of COs with POs and PSOs)											
PO-PSO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
CO1	3	2	3	1	2	1	3	2	1	3	3
CO2	2	3	2	3	1	2	2	1	1	2	3
CO3	3	1	3	1	2	3	1	3	2	1	3
CO4	1	2	1	2	3	1	3	2	1	3	2
CO5	3	3	2	3	2	3	1	1	2	2	2
CO6	1	2	3	2	2	2	2	2	3	1	2
CO7	2	1	1	1	1	3	3	2	1	3	3
CO8	3	3	2	3	3	3	2	2	2	1	3

1- Low Correlation; 2- Moderate Correlation; 3- Substantial Correlation

Name & Sign of Program Coordinator	Sign & Seal of HoD
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Effective from Session: 2024-25

Course Code	A080603T/HE321	Title of the Course	Elementary Mathematics	L	T	P	C
Year	III <sup>rd</sup>	Semester	VI <sup>th</sup>	5	0	0	5
Pre-Requisite	Intermediate	Co-requisite	None				
Course Objectives	The objectives of the course are - to enable the students to learn the basic concepts of mathematics and their application in economics. and enable them to understand the basics of differential & its application in economics.						

Course Outcomes	
CO1	To understand the basic concepts of mathematics and their application in economics.
CO2	To comprehend & explain the concepts of straight lines slope etc. of mathematics and its application in economics.
CO3	To understand mathematical techniques and use in Economics.
CO4	To know about Progression, Growth Rate, Equilibrium.
CO5	To able to understand basics of differential & its application in economics.
CO6	To know about elasticities and its use in Economics.
CO7	To understand and work with matrices.
CO8	To understand and work with the concepts of linear programming & graphic methods.

Unit No.	Content of Unit	Contact Hrs.	Mappe d CO
1	Basic Concepts: Variables, Sets, Functions, Equations, Identities, Systems of Equations	7	CO1
2	Application of Straight Line System, Slope of the Line, Homogeneous Function.	7	CO2
3	Role Of Mathematical Techniques In Economic Analysis, Theory of Numbers, Indices and Factorization.	8	CO3
4	Progression, Growth Rate, Equilibrium	7	CO4
5	Basics of Calculus: Rules of Differentiation of a Function; Maxima and Minima,	7	CO5
6	Elasticities; Inter- relationships among Total, Marginal and Average Cost and Revenues; Constrained Optimisation Problem; Integration of a Function, Consumer's and Producer's Surplus	9	CO6
7	Matrix and Determinants: Various types of Matrices, Determinants, Inverse of a Matrix, Cramer's Rule.	8	CO7
8	Concept of Linear Programming — Graphic Methods.	7	CO8

#### Reference Books:

1. Agarwal, D.R. (2009): Mathematics for Economics, Vrinda Publications, Delhi. Livernois, John., Rees, Ray., & Hoy, Michael (2012) : Mathematics for Economics , PHI Learning.
2. Madnani, G M K : Mathematics for Economics. Sultan Chand & Sons
3. Allen, R.G.D (2008) : Mathematical Analysis for Economics , AITBS
4. Sharma, J.K (2007): Business Mathematics, AneBooks Pvt. Ltd.
5. Rosser, Mike (2003) : Basic Mathematics for Economists , Routledge.

#### E-Learning Source:

<https://swayam.gov.in/>  
<http://www.ignouhelp.in/ignou-study-material/>

Course Articulation Matrix: (Mapping of COs with POs and PSOs)											
PO-PSO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
CO1	3	2	3	1	2	3	2	3	2	1	3
CO2	2	3	2	2	1	2	1	2	1	1	2
CO3	3	3	3	1	2	3	2	1	3	2	1
CO4	2	2	2	2	1	2	1	3	2	1	3
CO5	3	3	2	1	2	3	2	1	1	2	2
CO6	2	2	3	2	2	2	2	2	2	3	1
CO7	2	2	2	1	1	2	1	3	2	1	3
CO8	3	3	2	1	1	3	1	2	2	2	1

1- Low Correlation; 2- Moderate Correlation; 3- Substantial Correlation

Name & Sign of Program Coordinator	Sign & Seal of HoD
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Effective from Session: 2024-25

Course Code	A080604R/HE324	Title of the Course	Dissertation/Project	L	T	P	C
Year	III <sup>rd</sup>	Semester	Vi <sup>th</sup>	2	0	1	3
Pre-Requisite	Intermediate	Co-requisite	None				
Course Objectives	Students will acquaint themselves and experience the local issues of economic implications or focus on economic well-being and behavior of consumers/citizens. The students will be able to use and apply the learned economic principles to local economic issues.						

### Course Outcomes

CO	To develop economic thinking in the students through direct experience in real life.
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Unit No.	Content of Unit	Contact Hrs.	Mapped CO
1	Dissertation Topic on the Local / Current Issues with Economic Focus plus Presentation using Ppt. The dissertation Report will be prepared using Statistical/Research Techniques Surveys, Questionnaires/interview schedules. The questionnaire/Interview Schedule must be attached to the report as an annexure.	30	1

Course Articulation Matrix: (Mapping of COs with POs and PSOs)										
PO-PSO CO	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	-	-	-	-	-	-	-	-	-	-
CO2	-	-	-	-	-	-	-	-	-	-

1- Low Correlation; 2- Moderate Correlation; 3- Substantial Correlation

Name & Sign of Program Coordinator	Sign & Seal of HoD
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