



<b>Effective from Session: 2024-25</b>							
<b>Course Code</b>	A080501T/ HE313	<b>Title of the Course</b>	<b>Economic Growth and Development</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
<b>Year</b>	III <sup>rd</sup>	<b>Semester</b>	V <sup>th</sup>	<b>5</b>	<b>0</b>	<b>0</b>	<b>5</b>
<b>Pre-Requisite</b>	Intermediate	<b>Co-requisite</b>	None				
<b>Course Objectives</b>	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.						

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

<b>Unit No.</b>	<b>Content of Unit</b>	<b>Contact Hrs.</b>	<b>Mapped CO</b>
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/>

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

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

<b>Name &amp; Sign of Program Coordinator</b>	<b>Sign &amp; Seal of HoD</b>
---	-------------------------------



**Effective from Session: 2024-25**

<b>Course Code</b>	A080505T / HE316	<b>Title of the Course</b>	Demography and Population studies	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
<b>Year</b>	III <sup>rd</sup>	<b>Semester</b>	V <sup>th</sup>	<b>5</b>	<b>0</b>	<b>0</b>	<b>5</b>
<b>Pre-Requisite</b>	Intermediate	<b>Co-requisite</b>	None				
<b>Course Objectives</b>	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	
<b>CO1</b>	Understand simple concepts and relationships related with demography and population.
<b>CO2</b>	To study the population theories and their economic implications.
<b>CO3</b>	Understand the concept of demographic dividend and population structure with its economic significance.
<b>CO4</b>	Understand the concept of fertility and its economic outcomes.
<b>CO5</b>	To study the concept of mortality, health and their economic implications.
<b>CO6</b>	Understand the economic dynamism of migration along with the concepts of brain drain, urbanization and economic growth.
<b>CO7</b>	Understand the population policies and their socio-economic implications along with economic planning.
<b>CO8</b>	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
------------------------------------	--------------------



<b>Effective from Session: 2024-25</b>							
<b>Course Code</b>	A080506T / HE317	<b>Title of the Course</b>	Political Economy	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
<b>Year</b>	III <sup>rd</sup>	<b>Semester</b>	V <sup>th</sup>	<b>5</b>	<b>0</b>	<b>0</b>	<b>5</b>
<b>Pre-Requisite</b>	Intermediate	<b>Co-requisite</b>	None				
<b>Course Objectives</b>	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	
<b>CO1</b>	Students will gain a nuanced understanding of the political economy perspective with a historical overview.
<b>CO2</b>	Students will be proficient in analyzing the shifting dynamics of capitalist production.
<b>CO3</b>	Students will demonstrate a comprehensive understanding of various types of labor.
<b>CO4</b>	Students will possess a thorough understanding of the impact of globalization on the welfare state.
<b>CO5</b>	Students will adeptly analyze the evolving role of finance in the processes of capital accumulation and corporate structure.
<b>CO6</b>	Students will be proficient in employing the method of historical materialism to analyze social change.
<b>CO7</b>	Students will exhibit a nuanced understanding of the intricate relationship between the state and the economy.
<b>CO8</b>	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

<p>Name &amp; Sign of Program Coordinator</p>	<p>Sign &amp; Seal of HoD</p>
---	-------------------------------



**Effective from Session:** 2024-25

<b>Course Code</b>	A080503T/HE315	<b>Title of the Course</b>	International Economics	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
<b>Year</b>	III <sup>rd</sup>	<b>Semester</b>	V <sup>th</sup>	<b>5</b>	<b>0</b>	<b>0</b>	<b>5</b>
<b>Pre-Requisite</b>	Intermediate	<b>Co-requisite</b>	None				
<b>Course Objectives</b>	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

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

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

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



Effective from Session: 2024-25

<b>Course Code</b>	A080502T / HE314	<b>Title of the Course</b>	Environmental Economics	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
<b>Year</b>	III <sup>rd</sup>	<b>Semester</b>	V <sup>th</sup>	5	0	0	5
<b>Pre-Requisite</b>	Intermediate	<b>Co-requisite</b>	None				
<b>Course Objectives</b>	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

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





**Effective from Session: 2024-25**

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

### Course Outcomes

<b>CO1</b>	Understand simple concepts related with Statistics.
<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

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
<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

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

Name & Sign of Program Coordinator	Sign & Seal of HoD
------------------------------------	--------------------