

Effective from Session:										
Course Code	HE407	Title of the Course	Macro Economics	L	Т	Р	С			
Year	First	Semester	Second	4	0	0	4			
Pre-Requisite	Graduation	Co-requisite	None							
Course Objectives	interest rates, and helps policyma	nd price level. It attempt kers to formulate the a	ment, fluctuations, and growth in economic aggregates lil ts to explain the past behavior of such variables, predicts the appropriate policies for improving the economic welfare arrens in a proper understanding of the economic aggregates	likely of a c	future	events,	and			

	Course Outcomes						
CO1	Understand the basic concepts and various approaches to macroeconomics.						
CO2	Examine the systematic facts and latest theoretical developments for empirical analysis.						
CO3	Acquire a logical and consistent framework for understanding the main macroeconomic facts and events						
CO4	Evaluate economic models to assess the validity and relevance of various economic policies.						
CO5	Develop the ability to employ the correct macroeconomic tool(s) to explain specific macroeconomic issues and justify policy proposals.						

Unit No.	Content of Unit	Contact Hrs.	Mapped CO
1	The building blocks-Say's law and quantity theory of money, Wage-Price flexibility, Labour market, and its equilibrium; Policy implications of the classical model; Pigou's theory; Basic Keynesian model; Keynes vs. the Classics; Balanced budget multiplier; IS-LM analysis in a closed economy.	09	CO1
2	Main features of the new classical macroeconomics; Efficient market hypothesis; Lucas imperfect information model; Policy irrelevance, Lucas critique; Supply-side economics; New Keynesian models of wage-price stickiness-Mankiw model, Efficiency wage model, Policy implications of the new Keynesian model.	09	CO2
3	Classical, Keynesian, and Monetarist approach to inflation; Bent Hansen model of demand-pull inflation; Structuralist theory of inflation; Phillips curve-Short run and long run; Modified Phillips curve- Friedman, Tobin, and Solow; Theories of trade cycles- Samuelson, Hicks, Kaldor, and Goodwin's model; Real business cycle theory.	09	CO3
4	Macroeconomic variables and equilibrium in an open economy; IS-LM curve and balance of trade- Zero capital mobility, Interest rate differentials; Implications of capital mobility for macroeconomic policy; Mundell-Fleming model under fixed and flexible exchange rates; Inflation and unemployment in an open economy.	09	CO4
5	Macroeconomic policy- Meaning and objectives, Targets and instruments, Fixed and flexible target approach, Uncertainty and economic policy, Lags in the effects of policy, Gradualism versus shock therapy, Rules versus discretion; Deficits and money growth; Financing of the budget deficit; Inflation tax; Ricardian equivalence.	09	CO5
Reference	e Books:		
Branson, V	W.H, Macroeconomic Theory and Policy, Harper and Row, New Delhi.		
	M, Impact of Monetary Policy, Himalayan Publishing House, Bombay.		
Č.	McDowell, Macroeconomics, McGraw–Hill Publishers.		
	h, R. and S. Fischer, Macroeconomics, 4th Ed., McGraw Hill, Kogakusha.		
	Ankiw, N, Macroeconomics, 7th Ed., Worth Publishers.		
	y, S, International Macroeconomic Dynamics, Ma: MIT Press, Cambridge.		
E-Learni	ng Source:		
	ayam.gov.in/		

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

		Course Articulation Matrix: (Mapping of COs with POs and PSOs)												
PO- PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4			
CO														
CO1	1	1	3	1	1	1	1	2	3	1	1			
CO2	2	2	2	2	2	2	2	2	1	3	2			
CO3	3	3	1	3	3	3	3	3	2	2	1			
CO4	1	1	2	1	1	1	2	2	3	1	2			
CO5	3	3	3	3	2	3	1	1	1	2	3			
		1-Low	Correlation	• 2. Moders	ate Correlat	ion: 3- Subs	tantial Cori	elation						

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

Sign & Seal of HoD



Effective from Session: 2023-24											
Course Code	HE408	Title of the Course	Research Methodology	L	Т	Р	С				
Year	First	Semester	Second	4	0	0	4				
Pre-Requisite	Graduation	Co-requisite	None								
Course Objectives	The students	at the post-graduate le	ble the students to know the major concepts and methods i vel are expected to know research methods and data anal rial undertakings as research / economic analyst								
Course Objectives			rial undertakings as research / economic analyst.	ysis so	o mat t	ney car	i be				

	Course Outcomes						
CO1	To understand the scope, purpose of social research and various types of research.						
CO2	To understand the identification, selection and formulation of research problem.						
CO3	To know about various methods of data collection.						
CO4	To know about hypothesis, its importance and problems in formulating hypothesis.						
CO5	To understand the format of research report and its structure.						

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
1	Introduction	Introduction, Nature, Scope and Purpose of social research. Types of research: pure & applied research; formulative or exploratory research; descriptive research, historical research, experimental research, survey research.	8	C01
2	Research Process	Identification, selection and formulation of research problem – sources of research problem – criteria of a good research problem. Review of literature. Preparing Research Design: Definition, Concepts, and types– exploratory, descriptive and diagnostic, experimental and Analytical research designs. Major Difficulties in the Area of economic research.	8	CO2
3	Data Collection	Data Collection and Processing Population, Sample, Sampling techniques; Methods of collection of Primary Data: Direct Personal Investigation, Indirect oral investigation, Information received through local agents and correspondents, mailed questionnaire; Design of questionnaire; Editing, coding, classification and tabulation of data. Secondary data: Sources, Limitations of Secondary Data, Precautions in the use of Secondary Data.	8	CO3
4	Hypothesis Testing	Definition of Hypothesis, Problems in formulating Hypothesis, Importance of hypothesis, Prerequisites for testing of Hypothesis, Testing of Hypothesis, Types of errors in testing of Hypothesis, Level of significance.	8	CO4
5	Research Report	Presentation of Information and Writing of a Research Report, Language, Analysis and interpretation of Data, Format of a Research Report, Principles of writing the Research Report: Organization and Style - Contents-Styles of reporting, Pagination- Identification- Using quotations- Presenting footnotes – abbreviations- Presentation of tables and figures- Citation and Referencing: APA Style; - format of appendices- Indexing - Bibliography, Appendices, Ethical issues relating to research.	8	CO5
Referen	ce Books:			
Kothar	i, C.R (2004) Research	Methodology: An Introduction, Delhi, New Age.		
Sadhu	A,.N. & Amarjit Singh:	Research Methodology in Social Sciences, by Himalaya Publishing House.		
Gopal,	M.H (1970) An Introdu	action to Research Procedures in Social Sciences, Bombay, Asia Publishing House.		
Nachm	nias David &Nachmias	Chava, (1981), Research Methods in the Social Sciences, New York.		
e-Lear	rning Source:			

https://swayam.gov.in/

PO- PSO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
C01	2	3	2	2	3	2	1	2	1	2	1
CO2	3	3	2	3	3	3	2	1	2	1	2
CO3	2	3	1	2	3	2	2	2	1	2	1
CO4	2	3	1	2	3	2	1	2	1	2	1
CO5	3	3	1	3	3	3	2	1	2	1	2

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

Name & Sign of Program Coordinator	Sign & Seal of HoD



Department of Economics Faculty of Humanities and Social Sciences Integral University, Lucknow

Effective from Session:2023-24													
Course Code	HE 409	Title of the Course	f the Course Computer Application in Economics L										
Year	First	Semester	er Second 4 0										
Pre-Requisite	Graduation	Co-requisite	None										
Course Objectives	and preparatio	n of data files will make th	e student industry ready. On satisfying the requirements of this c		This course will develop an interest among students regarding use of computer in Economics. The usage of statistical tools, software								

	CourseOutcomes							
CO1	Students will understand the Basic of Computers							
CO2	Students will know the basicsof documentation and presentation tools							
CO3	Student will know about the Ecommerce							
CO4	Student will use MS-Excel in analysing Data							
CO5	Student will use software in analysingData							

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
1	Introduction to Computers	Computer : Definition, Characteristics and Limitations; History and Evolution of Computers; Generations of Computers; Components of a Personal Computer System; Classification of Computers and their applications; Model and Functioning of a Digital Computer, Computer Vs. Human – Being. Artificial Intelligence.	10	C01
2	Computer Fundamentals	System – Meaning and Concept; Hardware, Software and Types of Software; Operating System- Meaning and Functions; Memory – RAM and ROM; Input-Output Devices. MS Office: MS Word, MS Excel, MS Power Point.	9	C02
3	E-Commerce	E-Commerce: Meaning, E-Commerce, E-Business and E- Transaction; Ecommerce vs. TraditionalCommerce; Security, Digital Signature, Digital Certificate; Encryption; Electronic Payment System- Debit Cards, Credit Cards, Smart Cards, Electronic Funds Transfer, ATM.	8	C03
4	Application of MS-Excel	MS-excel basics, functions, charts, sorting data, filtering data, macros, pivot table.Summarizing and analysis of data; Descriptive Statistics (Mean, median, mode, standard deviation,CV, skewness); Comparison of means; Correlation and Regression analysis; Estimation of GrowthRates; Trends of Forecasting; Testing the significance of parameters.	9	C04
5	Application of SPSS	Data Entry in SPSS; Computing with SPSS – Preparation of Graphs withSPSS – Distribution Functions and Density Functions – Statistical Package handling and commanddescription for SPSS – Reports, Descriptive – Statistics, Compare Means, Time Series Analysis,Correlation and Regression Models.	9	CO5
Reference Bo	ooks:			
	7. 07.	ogies and Applications, Tata McGraw Hill, New Delhi		
		entice Hall India Learning Private Limited.		
		& E-Commerce, Natraj Publishing House, Karnal.		
		Problems of Data Processing, Schum'sOutlineSeries, McGraw Hill, New York.		
	ila, Information Technology, Taxma			
1 7	J., E- Commerce : An Indian Persp	ective, PHI Learning , New Delhi. Isiness, S. Chand and Company, New Delhi		
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	.ac.in/courses/106106092			
https://nptel	.ac.in/courses/109107190			

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

Name & Sign of Program Coordinator	Sign & Seal of HoD



Department of Economics Faculty of Humanities and Social Sciences Integral University, Lucknow

Effective from Session:2023-24										
Course Code	HE 410	Title of the Course	Labour Economics		Т	Р	С			
Year	First	Semester	Second	4	0	0	4			
Pre-Requisite	Graduation	Co-requisite	None							
Course Objectives	To develop stu	dents' abilities in acquiring	a better understanding of the functioning of labour markets.							

	Course Outcomes						
CO1	Acquaints students with the contribution of labour in the process of capitalist development.						
CO2	The students will be able to understand the labour market institutions, such as union and the government influences the operation of labour markets.						
CO3	Student will able to understand Industrial Relations						
CO4	How incentives shape labour markets outcome, such as the allocations of labour across occupations or intensity of work effort.						
CO5	Students will be able to understand the contemporary issues related to labour market in India.						

Unit No.	Title of the Unit	Title of the Unit Content of Unit						
1	1 Labour 1 Labour 1 India, Labour 1 Narket, Employment exchange in India, Rural labour in India Employment Programes in India, Labour Productivity and wage Determination theories, Minimum wages Act, share of wages in National Income of India, wages Differentials Standardization, National wages Policy.							
2	Trade Union	9	C02					
3	Industrial Relations	8	C03					
4	Labour Welfare	Labour Welfare Measures in India, legislations in India, Child and women, Labour, Social security –Social Security in India and Abroad, International labour organization.	9	C04				
5	Contemporary Issues	Labour markets failure, working poverty surplus labour, lack of labour reforms, and other contemporary issues.	9	CO5				
Reference Bo	ooks:							
Labour Econo	omics : Theory, institutional & pub	policy, by Ray Marshall						
Labour Econo	omics : by Dr. Sinha, Sinha							
Labour Econo	mics and social welfare, by- Dr. B.	P Tyagi & Dr. H.P Singh						
Labour Econo	omics & Labour Problems – by M.V	Josh						
e-Learning So	e-Learning Source:							

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

	Course Articulation Matrix: (Mapping of COs with POs and PSOs)										
PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
CO											
CO1	1	2	1	1	1	1	1	1	2	1	1
CO2	1	2	1	1	1	1	1	1	2	1	1
CO3	1	2	1	1	1	1	1	1	2	1	1
CO4	1	2	1	1	1	1	1	1	2	1	1
CO5	1	2	1	1	1	1	1	1	2	1	1
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Name & Sign of Program Coordinator	Sign & Seal of HoD



Effective from Session: 2023	Effective from Session: 2023-24									
Course Code	HE411	Title of the Course	Resource Economics		Т	Р	С			
Year	First	Semester	Second	4	0	0	4			
Pre-Requisite	Graduation	Co-requisite	None							
Course Objectives		learn how to regulate p	narket failure, students will learn to design regulation whic pollutants that travel across country boundaries and how en							

	Course Outcomes							
CO1	To know the basics of Resource							
CO2	To understand the relationship between Environment and Economic Development.							
CO3	To know about Green Accounting							
CO4	To know about Environmental valuation methods.							
CO5	To know about the techniques of Valuation							

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO					
1	Introduction	Resources: Types, Renewable and Non-renewable Resources, Common-pool Resources: Tragedy of the Commons, Empirical Studies on CPR in Indian Context.	8	CO1					
2	Environment and Economic Development	Environment and Economic Development: Classical: Malthusian and Neo-Malthusian, Neo- classical: Environmental Kuznet Curve, Economics of Sustainability: Weak and Strong Sustainability.	8	CO2					
3	Green Accounting	Green Accounting: Environmental adjusted system of national income accounting. Environmental adjusted sustainable national income, Indicators of Economic and Environment.	7	CO3					
4	Valuation of Environmental Goods-I	Environmental Valuation- Meaning, Need for Environmental Valuation, Difficulty in Measuring Environmental Values, Techniques of Valuation: Revealed Preference Methods, Hedonic property values and house hold production models (Travel cost method and household health production function).	9	CO4					
5	Valuation of Environmental Goods-II	Techniques of Valuation: Stated Preference Methods, Methods based response to hypothetical Markets, Contingent Valuation Methods, Assessing willingness to pay (WTP) and willingness to accept (WTA).	8	CO5					
Referen	ce Books:								
A.M Hu	ussen : Principles of Enviro	onmental Economics, Routledge, London							
C.D. Ko	olstad: Environmental Eco	nomics, OUP, New Delhi.							
David	A .Anderson: Environment	al Economics and Natural resource							
Katar S	Katar Singh & Anil Shisodia: Environmental Economics, Sage Publications, New Delhi								
e-Lear	e-Learning Source:								
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https://swayam.gov.in/

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

Name & Sign of Program Coordinator	Sign & Seal of HoD



Effective from Session:							
Course Code	HE412	Title of the Course	Indian Economy	L	Т	Р	С
Year	First	Semester	Second	4	0	0	4
Pre-Requisite	Graduation	Co-requisite	None				
Course Objectives	To make studen the economy of		e and growth of the Indian economy and to Apprise them o	f polic	y issue	s relate	d to

	Course Outcomes
CO1	Comprehend the Basic Characteristics of the Indian Economy.
CO2	Know about the Basic Features of Indian Agriculture and Industries.
CO3	Understand the Issues related to food security and Public Distribution systems.
CO4	Understand the concept of Poverty Inequality and Unemployment.
CO5	Examine the Issues and Challenges of the Indian Economy.

Unit No.	Content of Unit	Contact Hrs.	Mapped CO					
1	Growth and Structure of the Economy: Basic Features of Indian Economy; Trends in National and Per Capita Income; Sectoral Contribution and Economic Transition; Demographic Transition-Stages, Trends, and Issues, Demographic Dividend.	09	CO1					
2	2 Agriculture: Characteristics of Indian Agriculture; Trends in Agricultural Production and Productivity; Causes of Low Productivity; Green Revolution; Agricultural Price Policy, Public Distribution System and Food Security, Agricultural Credit-Non Institutional and Institutional sources of credit.							
3	Industry: Importance of Industries in the Indian Economy; Industrial Pattern and Growth during the Planning Period; Industrial Policy; Micro, Small and Medium Enterprises (MSMEs); Industrial Sickness; Sources of Industrial Finance.	09	CO4					
4	Poverty, Unemployment, and Inequality: Poverty- Concept, incidence and causes; Human Poverty Index(HPI), Multi-Dimensional Poverty Index; Poverty Eradication Programmes; Unemployment- Types, Estimates, and Causes; Unemployment Eradication Policies and Programmes; Inequality- Pattern and Causes.	09	CO2					
5	Foreign Trade and Investment: India's Foreign trade: Composition and direction; EXIM policy; Current account deficit and Capital flows; FDI and Portfolio investment; Balance of trade and Balance of Payment.	09	CO5					
Reference	e Books:							
	A. N and M.K. Indian Economy, New Age Publications.							
	A.K. Uttar Pradesh Mein Arthik Vikas, New Royal.							
	seph, Globalization and its Discontents, Penguin. n, Social Policy (EPW), Orient Blackswan.							
	evelopment Reports, UNDP.							
	Survey, Ministry of Finance, Government of India.							
	t and KPM Sundaram- Indian Economy.							
Uma Kapi	la- Indian Economy.							
	d Puri- Indian Economy.							
Bansil PC	-Agricultural Problem of India.							
E-Learni	ng Source:							
https://swa	ayam.gov.in/							
http://www	w.ignouhelp.in/ignou-study-material/							

			Cou	rse Articula	tion Matrix	: (Mapping	of COs with	n POs and PS	SOs)		
PO- PSO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
CO1	1	1	3	1	1	1	1	2	3	1	1
CO2	2	2	2	2	2	2	2	2	1	3	2
CO3	3	3	1	3	3	3	3	3	2	2	1
CO4	1	1	2	1	1	1	2	2	3	1	2
CO5	3	3	3	3	2	3	1	1	1	2	3

Name & Sign of Program Coordinator	Sign & Seal of HoD



Effective from Session: 2020)-21						
Course Code	MT433	Title of the Course	Econometrics Theory	L	Т	Р	С
Year	I st	Semester	II nd	3	1		4
Pre-Requisite	Graduation	Co-requisite	None				
Course Objectives	The course of	jective is to learn the co	oncepts of Econometrics and to construct the multiple regre	ssion 1	models,	partial	and
Course Objectives	multiple regre	ession coefficients and a	pply these models for future prediction.				

	Course Outcomes
CO1	To understand the nature and scope of econometrics and Gauss-Markov theorem.
CO2	To demonstrate and understand the Multiple regression models with two explanatory variables.
CO3	To know about Multi-collinearity and Errors of Measurement.
CO4	To understand problems in regression analysis having Time series and Cross section data.
CO5	To know about Heteroscadasticity, detection and its remedial measures.

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
1	Unit - I	Nature, meaning and scope of econometrics, Simple linear regression models, assumptions, estimation through ordinary least square method (OLS) and Maximum likelihood method. Properties of estimators; significance test and confidence interval, Gauss- Markov Theorem.	12	C01
2	Unit - II	Multiple regression models with two explanatory variables. Partial and Multiple regression coefficients, Estimation of the Regression Coefficients, Testing of Significance of Regression Coefficients and Regression Model, R- square, Adjusted R- square, Akaike Information Criteria and Schwarz Criterion.	12	CO2
3	Unit - III	Problems of Regression Analysis: Nature, Tests, Consequences and remedies of Problem of Multi-collinearity, Problems of specification error, Errors of Measurement.	12	CO3
4	Unit - IV	Problems in Regression Analysis having Time Series and Cross Section Data: Auto correlation, Nature of the problem, Consequences of using OLS in the presence of Auto correlation, Detecting Auto-correlation-Graphical Method, Durbin-Watson 'd-statistic', remedial measures of the problem.	12	CO4
5	Unit -V	Heteroscadasticity- meaning, graphical presentation of the presence of Heteroscadasticity. Consequences of Heteroscadasticity, Detection and remedial measures of the problem.	12	CO5
Referen	ce Books:			
Econom	etric Methods- J. Johns	ton & J. DiNardo (1997) McGraw Hill Higher Education IV Edition.		
Basic Ec	conometrics – D.N Gujr	ati, D.C Porter, S Gunasekar (2012) McGraw Hill Higher Education V Edition.		
Theory	of Econometrics – A. K	outsoyiannis (1973) Palgrave Macmillan Second Edition		
Advance	ed Econometrics Ame	miya, T. (1985), Harvard University Press, Cambridge, Mass.		
e-Lear	rning Source:			

https://nptel.ac.in/courses/111/104/111104072/

					Cou	rse Art	iculation	Matrix: (Mapping	of COs v	with POs a	and PSOs	5)			
PO- PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4
CO																
CO1	3	3	2	2	2	2	2	2	2	2	1	2	2	2	2	2
CO2	2	3	2	2	2	2	1	3	1	2	2	2	1	1	1	2
CO3	2	2	1	3	1	3	1	2	2	1	3	1	2	2	2	1
CO4	2	2	1	2	1	2	2	2	2	1	2	2	1	2	1	2
CO5	3	2	2	3	1	2	1	2	1	2	1	1	2	1	2	2

Name & Sign of Program Coordinator	Sign & Seal of HoD