

Department of Liberal Education Era University, Lucknow

Course Outline

Effective From: 2023-24

Name of the Program	B.A. / B.Sc. (LIBERAL EDUCATION)			Year/ Semester:	3^{rd} / 6^{th}			
Course Name	Introductory Econometrics and Statistics	Course Code:	ECO309	Type:	Theory			
Credits				Total Sessions Hours:	60 Hours			
Evaluation Spread	Internal Continuous Assessment:	50 Marks		End Term Exam:	50 Marks			
Type of Course	Compulsory	© Core		Creative	1	Life Skill		
Course Objectives	 To provide an understanding of the concepts and methods of Statistics, for application in data analysis. To get the statistical skills required for the analysis of socio-economic data. 							
Course Outcomes(CO): After the successful course completion, learners will develop the following attributes:								
Course Outcome (CO)	Attributes							
CO1	Understand Introductory Econometrics & Statistics, and its application							
CO2	Be able to apply a variety of statistical distributions and estimation techniques proficiently							
CO3	Explain the concept, types, and problems in constructing index number							
CO4	Describe how correlation is used to identify relationships between variables							
Pedagogy	Interactive, discussion-bases, student-centered, presentation.							
Internal Evaluation Mode	Mid-term Examination: 20 Marks Activity: 10 Marks Class test: 05 Marks Online Test/Objective Test: 05 Marks Assignments/Presentation: 05 Marks Attendance: 05 Marks							
Session Details	Topic Hours Mapped CO							
Unit 1	Introduction to Econometrics & Statistics Aims of econometrics, Application of Econometric Methods to Various Economic Problems, Types of data, Distinction between Economic Model and Econometric model. What is Statistics? Statistics Examples, Basics of Statistics, Applications of Statistics							
Unit 2	Statistical Concepts Normal distribution, Chi-square, t & F distribution, Estimation of Parameters, Testing of Hypothesis, Parametric & Non-Parametric Estimations, Type-I and Type-II Errors.							
Unit 3	Index Numbers 15 0							

	Index numbers: meaning and importance, Problems in the															
		construction of index numbers, Types of index numbers: price														
		index, Quantity index, Value index, Construction of price														
		index numbers, Consumer price index number: meaning and														
						_				_						
ı		uses, Problems in the construction of cost of living index														
TT *4 4		number, Limitations of index numbers. Correlation Analysis 15 CO4								0.4						
Unit 4					•							15		CO4		
					Types of correlation, Methods of studying											
correlation,						_	Karl									
	Pearson's coefficient of correlation.															
CO-PC) and I															
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6		
CO1	1	1				1	1		2	2			1			
CO2	1 1	1	3		1	1 1	1		1				1			
CO4	1					1	1		1	2			1	-		
	Strong contribution-3, Average contribution-2, Low contribution-1,															
Sugges				~				~1	1.0	~			04.4			
Text- I	Books	1. S	P Gupt	ta, Stat	istical	Metho	ds, Sult	tan Ch	nand &	Sons;	1st ed	ition (2	2014).			
		2. D	. N. G	ujarati	and I	D.C. Po	rter, Es	sentia	ls of E	Conon	netrics,	McGr	aw Hi	ll, 4th		
		2. D. N. Gujarati and D.C. Porter, Essentials of Econometrics, McGraw Hill, 4th edition, International Edition, 2009.														
Refer	ongo															
Boo		Tr · · · · · · · · · · · · · · · · · · ·								listics,						
Воо	KS	2n	d editio	n, Pea	rson E	Educati	on.									
		2. Le	wis, M	argare	t (201	1) App	lied Sta	tistics	for Ec	onomi	sts, Ro	utledge	e.			
Para '	Text	Unit 1		_												
		https://www.youtube.com/watch?v=vEP4RIOKuE4														
		Unit 2		_												
				youtuk	e.con	ı/watch	?v=zKU	BOGh	iD1Xo							
Unit 3																
			youtube.com/watch?v=dUe3U0BTb4k													
	Unit 4								. •							
	https://www.driveresearch.com/market-research-company-blog/what-is-correla analysis-in-market-research/								tion-							
						<u>rch/</u>										
Recapi	tulatio	n & Ex	kaminat	tion Pa	ttern											
Interna	al Cont	tinuous	Assess	ment:												
Component				Mar	Marks Pattern											
Mid Se		•		20			A: Con	tains	10 MC	COs/Fil	l in th	e blanl	ks/One	Word		
1,110 8				Section A: Contains 10 MCQs/Fill in the blanks/One Word Answer/ True-False type of questions. Each question carries 0.5												
					mark. Section B: Contains 07 descriptive questions out of which 0											
				ich 05												
					questions are to be attempted. Each question carries 03 marks .											
Activit	v			10		Will be decided by subject teacher										
Class Test			05		Contains 05 descriptive questions. Each question carries 01											
Class 1 Cst			0.5		mark.								•			
Online	Tost/	Ohiooti	VO	05			10 mul	tinle c	hoice a	nestion	rs Fact	h anesti	on carr	ies 0.5		
Online Test/ Object			IVE	05		Contains 10 multiple choice questions. Each marks.						in question carries 0.5				
	Test			05			ent to be	mada	on ton	ice and	inetrue	tion giv	en by	uhiect		
Assignment/ Presenta			auon	03		_	ent to be	maue	on top.	ics and	mstruc	non giv	en by s	abject		
Attendance				05		teacher As per policy										

As per policy

05

50

Attendance

Total Marks

Course created by:	Dr. Samreen Naqvi	Approved by:
Signature:	And the second	Signature: