

Bharati College (University of Delhi) Janak Puri, Delhi- 100058 www.bharaticollege.du.ac.in



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Lesson Plan (<u>DSECORE</u>, Semester <u>VI</u>, July to November2022)

Name of Teacher	<u>Dr. Nishtha Bhushan</u>	Department	Commerce	•	Formatted Table			
Course	B.Com. (Hons.)	Semester	<u>V</u>					
Paper	Business Statistics	Academic Year	<u>2022-2023</u> (July-December)	•	Formatted: Left, Indent: Left: 0"			
Learning Object	Learning Objectives							
decisions. To 5 information for Moments, Skey Time Series.	familiarize the students with the basics s business decision-making. To give an vness, Kurtosis, Probability, Probability J mes	titative bersion, ers and	Tormattea. Justinea, indent. Eek. 0 , hanging. 0.15					
On successful c <u>1. Should acq</u> <u>analyzing i</u> 2. Gather know	ompletion of this course, the student we uire a fair degree of proficiency in con- t using descriptive statistical tools.	s.	Formatted: Numbered + Level: 1 + Numbering Style: 1, 2, 3, + Start at: 1 + Alignment: Left + Aligned at: 0.07" + Indent at: 0.32"					
3. Understand	the relationship between two variables us	ing concepts of correlation	and regression and its us	se in	Formatted: Font: 10 pt			
identifying a	and predicting the variables.	hair ability in daily life and	ato alt montrat		Formatted: Font: 10 pt			
 <u>4. Develop an</u> <u>5. Become awa</u> 	are of the patterns revealed by the time se	ture.	Formatted: Font: 10 pt					
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Lesson Plan

Week No.	Theme/Curriculum	Any Additional Information	
<u>1-3</u>	UNIT I : Descriptive Statistics		
	*Measures of Central Tendency: (Arithmetic Mean, Harmonic & Geometric Mean), Positional Averages (Mode & Median, Quartiles, Deciles and	Using Spreadsheet to calculate measures of central tendency and dispersion. Assessment in the third week of August	
	Percentiles) with graphic representation. * Measures of Dispersion: Absolute and		
	Relative (Range, Quartile Deviation, Mean Deviation), Standard Deviation and its		
	* Moments (Skewness, its meaning and measurement and Bowley's measures and Kenteric)	•	Formatted: Indent: Left: 0.07", No bullets or numbering
<u>4-7</u>	<u>UNIT II : Probability and Probability</u> Distributions	Assessment in the fourth week of September	
	*Theory and Approaches of Probability. * Probability Theorems : Addition and		Formatted: Font: Bold
	Multiplication. *Conditional Probability and Bayes' Theorem. *Expectation and Variance of a Random		
	Variable. Business Applications. *Probability Distributions (Binomial Poisson and Normal)		Formatted: Font: Bold
	•		Formatted: No bullets or numbering
<u>8-9</u>	UNIT III : Simple Correlation and	Assessment in the second week of October	Formatted: Foot: Bold
	Regression Analysis		
	*Correlation vs. Causation; Pearson's		Formatted: Font. Bold
	*Coefficient of Correlation; Computation and <u>Properties; Probable and Standard Error; Rank</u> Correlation	-	Formatted: Indent: Left: 0", Hanging: 0.13"
	* Regression Analysis ; Principle of Least		Formatted: Indent: Left: 0.07", Hanging: 0.06"
	Square and Regression Lines; Regression		Formatted: Font: Bold
	Regression Coefficients; Relationship between Correlation and Regression		
10.12	Coefficients; Standard Error of Estimate.		
<u>10-12</u>	*Maaning and Uses of Index Numbers	Assessment in the fourth week of	Formatted: Font: 12 pt, Not Bold
	*Construction of Index Numbers: Fixed and	October	Formatted: Font: 12 pt, Not Bold
	Chain Base, Univariate and Composite:		Formatted Table
	*Methods of Constructing Index Numbers:		Formatted: Font: Bold
	Aggregate and Average of Relatives- Simple		Formatted: Font: Bold
	and Weighted.		Formatted: Indent: Left: 0.05"
	*Tests of adequacy of index numbers; Base	•	Formatted Indent: Left: 0" Hanging: 0.05"
	shifting, Splicing and Deflating; Problems in the construction of Index Numbers		romatted, indent, Leit, 0, Hanging, 0.05
	<u>*Construction and Utility of CPI, BSE</u> SENSEX and NSE NIFTY		

13-15	UNIT V : Time Series Analysis	Assessment in the second week of	Formatted: Font: 12 pt, Not Bold
	*Time Series Data; Components of time	November	Formatted: Font: Bold
	series; Additive and Multiplicative Models.		Formatted: Font: Bold
	<u>*Trend Analysis; Fitting of Trend Line using</u>		
	principle of least square-linear, second		Formatted: Font: 12 pt, Not Bold
	degree parabola and exponential; Shifting of		
	Urigin and Conversion of Annual Linear		
	I rend Equation to quarterly/ monthly basis		
	*Seasonal Variations: Calculation of Seasonal		
	Indices using Simple Averages, Patio to		
	Trend and Ratio-to-Moving Averages		
	methods: Uses of Seasonal Indices		
References <u>1. Ander</u> 2. Gupta	son, Sweeney and William. Statistics for Students S.P. and Gupta Archana. Statistical Methods. Si	Formatted: Font: (Default) Times New Roman, 12 pt	
$\frac{2. \text{ Gupta.}}{3}$ Levin	Richard David S Rubin Rastori and Siddoui S	Formatted: Font: (Default) Times New Roman, 12 pt	
Educa	tion	iuisites for munugement, Teurson	
A Thukr	al IK Rusings Statistics Taxmann Publications		
5 Vohro	N.D. Business Statistics, Taxinann Fublications.		
$\frac{5. \text{ volita}}{6. 0.1}$	N.D. Business statistics, McGraw Hill.		
6. Siegel	, Andrew F., Practical Business Statistics, Mc Gra	W Hill Publishing Co.	
7. Spiege	el, M.D. Theory and Problems of Statistics, Schaun		
<u>Publis</u>	<u>hing Co.</u>		
Additional R	esources		
1.	_		
Online			
Resources			
(II Any)			
Assignment			
and Class			
Test Schedul	e Link the assignment and Test (optional)		
for Semester			

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