SEMESTER - I

Business Statistics

Computer Code-1003

Module 1.3

Evaluation Pattern: Internal Evaluation 25 Marks

External Evaluation 75 Marks

Unit	Торіс	Weight age	No. of
		%	Periods
	<i>Objective:</i> To familiarize students with basic statistical		
	business tools.		
	DESCRIPTIVE STATISTICS FOR LINIX ADIATE		
	DESCRIPTIVE STATISTICS FOR UNIVARIATE		
	Introduction to Statistics: Preparation of frequency		
	distributions including graphic presentation.		
	Measures of Central Tendency: Mathematical Averages :		
	Arithmetic means, Geometric mean, Properties &		
1	Applications.	25	15
	Positional Averages: Mode & Median & other partition		
	values - Quartiles, Deciles & Percentiles (including graphic		
	determination).		
	Measures of Variation: Absolute, Measures, Range,		
	Quartile Deviation, Mean Deviation, Standard Deviation,		
	Variance.		
2	FORECASTING TECHINIQUES		
	Covariance & Correlation: Meaning, Correlation using	25	15
	scatter diagram. Karl Pearson's co-efficient of correlation:		

	Calculation & Properties, Rank Correlation.		
	<u>Regression Analysis:</u> Linear regression defined.		
	Regression defined. Regression equations & estimation.		
	Components of Time Series: Additive & Multiplicative		
	models		
	Trend Analysis: Finding Trend by moving average		
	methods, Fitting of Linear quadratic trend principle of least		
	squares.		
	INDEX NUMBERS		
	Meaning & Uses of Index Numbers : Simple & weighted	25	
	Index. No., Construction of Index No., Fixed & Chain base;		
	Paashe's Laspeyre's Kelly's & Fishers Index No. simple &		15
3	tests of adequacy of Index No. Construction of consumer		
	price indices. Deflating, Splicing, Quantity & Value Index		
	Nos. Shifting of base year, conversion of chain based to		
	fixed base & vice-a- versa, Cost of living Index Nos.		
	inflation concept of Industrial Production Indices.		
	PROBABILITY, PROBABILTY DISTRIBUTION &		
4	ITS APPLICATIONS (11 Lectures)	25	
	<u>Probability</u> : Probability as a concept, Addition &		15
	Multiplication Laws of probability (statement & concept		
	only), Conditional Probability, Bayer's Theorem		
	<u>Random Variables :</u> Random variable, Expectation &		
	variance, Probability Distributions; Binomial & Normal		
	Distribution		
	Total	100	60

Suggested Reading :

- 1. S. P. Gupta, Statistical Methods, Sultan Chand & Sons, 2011
- 2. Mathematics & Statistics, Ajay Goel & Alka Goel, Taxman Allied Services (P) Ltd.
- 3. Fundamentals of Mathematics & Statistics, S P Gupta & V K Kapoor, S. CHand.
- 4. Statistical Methods, S P Gupta
- 5. Business Statistics, Deshpande & Vaidya
- 6. Business Statistics, kumbhajkar