



Lesson Plan

Program:B.Com**Semester:**I**Course Code:** C010102**Course Name:** Business Statistics

Course Objectives: The purpose of the paper is to inculcate and analytical ability among the students.

(CO1):Gaining Knowledge of basic concept of business statistics.

(CO2): To compute various measures of central tendency, measures of Dispersion and their implication on business performance.

(CO4): To compute various measures of time series analysis, correlation and regression analysis and their implication.

(CO4): To perform practical application for taking managerial decision.

Session Duration:50 minutes

Participants:B.Com I Semester

Entry level knowledge and skills of students

- i. Basic Knowledge of Statistics and sources of data.
- ii. Knowledge of Central Tendency like Mean, Median & Mode.

Equipment required in Classroom/ Laboratory/ Workshop

- i. White Board & Marker

Assessment Schemes

S. No.	Criteria	Marks (100)
1	CCSU End Term Examination	75
2	Internal Evaluation Scheme	25
2(a)	Teacher Assessment (Continuous Evaluation)	20
2(a)(i)	Assignment I	10
2(a)(ii)	Assignment II	10
2(a)(iii)	Attendance (compulsory)	5

Course Outcomes(starting with action-oriented observable and measurable verb)

(CO1): Gaining Knowledge of basic concept of business statistics.

(CO2): To compute various measures of central tendency, measures of Dispersion and their implication on business performance.

(CO4): To compute various measures of time series analysis, correlation and regression analysis and their implication.



(CO4): To perform practical application for taking managerial decision.

L. N o.	Topics	Sub Topics	Date of implementation	Pedagogy	CO-Covered	Faculty Sign	HoD's Remark with Date
Unit - 1							
1.	Introduction to Business Statistics	Meaning, evolution of statistics in India & Discussion of Mahalanobis Model.		Lecture	CO1		
2.	Introduction to Business Statistics	Scope, Importance & Limitations of Statistics		Lecture	CO1		
3.	Statistical Investigation	Methods of investigation & planning and organization of data		Lecture	CO1		
4.	Statistical Investigation	Census & Sampling methods , methods of sampling including probability & Non-probability sampling		Demonstration	CO1		
5.	Collection of Data	Sources of data i.e., Primary and secondary data		Demonstration	CO1		
6.	Classification of Data	Frequency distribution; types of series		Demonstration	CO1		
7.	Presentation of Data	Tabular representation		Group Discussion	CO1		



		of data and practical problems					
8.	Presentati on of Data	Graphical representation and diagrammatic representation of data		Demonstration	CO1		
Unit - 2							
9.	Measures of Central Tendency	Concept of average; Concept of Mean and practical problems of Individual series		Lecture	CO2		
10.	Measures of Central Tendency	Discrete series and Continous series with its practical problems		Demonstration	CO2		
11.	Measures of Central Tendency	Concept of Median and practical problems of Individual & Discrete series		Demonstration	CO2		
12.	Measures of Central Tendency	Practical problems of median in continuous series		Demonstration	CO2		
13.	Measures of Central Tendency	Mode and practical problems of mode with tabular method		Demonstration	CO2		
14.	Measures of Dispersio n	Concept of Range & Coefficient of range; Quartile deviation & its		Demonstration	CO2		



		coefficient					
15.	Measures of Dispersion	Concept of mean deviation & its coefficient		Demonstration	CO2		
16.	Measures of Dispersion	Concept of standard deviation & its coefficient.		Demonstration	CO2		
17.	Measure of Skewness	Concept of skewness & its coefficient including karlpearson&bowley coefficient of skewness		Demonstration	CO2		
18.	Measure of Skewness	Practical problems on karlpearson coefficient of skewness		Demonstration			
19.	Measure of Skewness	Practical problems on Bowley's coefficient of skewness		Demonstration			
20.	Measure of Skewness	Practical problems on Bowley's coefficient of skewness					
21.	Measure of Skewness	Practical problems on Bowley's coefficient of skewness		Demonstration			
Unit - 3							
22.	Correlation Analysis	Introduction, types & degrees of correlation		Lecture	CO4		
23.	Correlation Analysis	Methods of Measurement of correlation; scatter diagram		Lecture	CO4		



24.	Correlation Analysis	Introduction of Karl Pearson coefficient of correlation and its measurement		Lecture /Demonstration	CO4		
25.	Correlation Analysis	Practical problems of karlpearson coefficient of correlation.		Demonstration	CO4		
26.	Correlation Analysis	Introduction of spearman coefficient of correlation		Lecture	CO4		
27.	Correlation Analysis	Practical problems on rank correlation method		Demonstration	CO4		
28.	Correlation Analysis	Concurrent method of correlation & Probable error		Demonstration	CO4		
29.	Correlation Analysis	Practical problems of coefficient of correlation		Demonstration	CO4		
30.	Correlation Analysis	Practical problems of coefficient of correlation		Demonstration	CO4		
Unit - 4							
31.	Index Numbers	Introduction, meaning and uses of index numbers		Lecture /Demonstration	CO4		
32.	Index Numbers	Methods of constructing price index numbers		Lecture /Demonstration	CO4		
33.	Index Numbers	Laspeyres method and its practical problems		Lecture /Demonstration	CO4		



34.	Index Numbers	Paasches' & Fishers' Ideal Index method of index numbers		Lecture /Demonstration	CO4		
35.	Index Numbers	Practical problems on methods of index numbers		Lecture /Demonstration	CO4		
36.	Index Numbers	Introduction to Base method of index numbers and practical problems on base method		Lecture /Demonstration	CO4		
37.	Index Numbers	Reversibility Test including Time reversal test and factor reversal test		Lecture /Demonstration	CO4		
38.	Analysis of Time series	Meaning & Importance of time series in statistics		Lecture /Demonstration	CO3		
39.	Analysis of Time series	Decomposition of time series: Practical problems on moving average method		Lecture /Demonstration	CO3		
40.	Analysis of Time series	Practical problems on methods of least squares		Lecture /Demonstration	CO3		
Revision							
41.	Unit 1	Previous year paper solving					
42.	Unit1	Previous year paper solving		Group Discussion			
43.	Unit 2	Previous year paper solving		Group Discussion			
44.	Unit 2	Previous year paper solving		Group Discussion			
45.	Unit 3	Previous year		Group Discussion			



		paper solving					
46.	Unit 3	Previous year paper solving		Group Discussion			
47.	Unit 4	Previous year paper solving		Group Discussion			
48.	Unit 4	Previous year paper solving		Group Discussion			

Text Books

1. **Business Statistics by S.P. Gupta and Archana Agarwal**
2. **Business statistics by S.C. Gupta**

Reference Books:

1. **Business Statistics by J.K. Sharma**
2. **Statistics by Sandeep Garg**

Journals: Not required

Electronic Database:

1. https://nios.ac.in/media/documents/SrSec318NEW/318_Economics_Eng/318_Economics_Eng_Lesson8.pdf
2. https://nios.ac.in/media/documents/SrSec318NEW/318_Economics_Eng/318_Economics_Eng_Lesson9.pdf
3. https://www.nios.ac.in/media/documents/SrSec318NEW/318_Learner_guide_eng/318_LG_E_L10.pdf
4. <https://www.igntu.ac.in/eContent/IGNTU-eContent-467281593500-B.Com-4-Prof.ShailendraSinghBhadouriaDean&-BUSINESSSTATISTICS-All.pdf>