



**J.C. BOSE UNIVERSITY OF SCIENCE AND  
TECHNOLOGY, YMCA, FARIDABAD, HARYANA, (INDIA)**

A State Government University (Accredited 'A++' Grade by NAAC)

(Established by Haryana State Legislative Act No. 21 of 2009, Recognized by U.G.C. u/s 2 (f) and 12(B) of U.G.C. Act 1956)

SECTOR-6, MATHURA ROAD, FARIDABAD-121006, HARYANA, (INDIA)

**Community College of Skill Development**

**Lesson Plan: Business Statistics (BIV-203-V)**

**Program: B.Voc BFSI      Semester: 3rd      Course Code: BIV-203-V      Credits: 3**

**Course Objectives:**

The objective of studying this course is to familiarize the students with basic statistical data analysis tools that can be used for effective decision making and developing the ability to conduct basic statistical analysis of data.

**Course Outcomes:**

After the successful completion of the course, students will be able to:

CO1: Understand and apply fundamental statistical concepts on data and will learn to classify, tabulate, and present data effectively.

CO2: Calculate and interpret Measures of Central Tendency (mean, median, mode etc.)

CO3: Calculate and interpret measures of variation such as range, quartile deviation etc.

CO4: Evaluate relationships between variables using Correlation and Regression







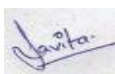


**Equipment required in Classroom/ Laboratory/ Workshop**

- i. LCD/Projector
- ii. Whiteboard/ Black Marker











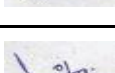

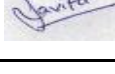
**Assessment Scheme**




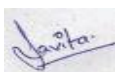


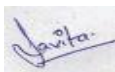

S.No.	Criteria	Marks
1	End Term Examination	75
2	Internal Evaluation Scheme	25
2a	Class Tests	15
2a (i)	Class Test-I	7.5
2a (ii)	Class Test-II	7.5
2(b)	Teacher Assessment (Continuous Evaluation)	10
2b (i)	Attendance	5

2b (ii)	Assignment / Presentation	5
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Lecture No.	Topic Covered	Pedagogy	Date of Implementation	Course Outcomes Covered	Faculty Sign
1	Meaning, Nature and Importance of Statistics	Discussion and PPT	29/07/2025	CO1	
2	Types, Scope and Limitations of Statistics	Discussion and PPT	01/08/2025	CO1	
3	Applications of Statistics in Business and Management	PPT	05/08/2025	CO1	
4	Types and Sources of Data – Primary and Secondary	White Board Lecture	07/08/2025	CO1	
5	Data Classification – Meaning, Objectives, and Types	White Board Lecture	11/08/2025	CO1	
6	Tabulation – Purpose, Types and Rules for Tabulation	White Board Lecture	14/08/2025	CO1	
7	Construction of Frequency Distribution Tables	White Board Lecture	19/08/2025	CO1	
8	Presentation of Data – Diagrams and Graphs: Meaning and Importance	White Board Lecture	21/08/2025	CO1	
9	Types and Construction of Diagrams – Bar, Pie, and Line Graphs	White Board Lecture and Discussion	22/08/2025	CO1	

10	Types and Construction of Graphs – Histogram, Frequency Polygon and Ogive	Discussion/ PPT	<b>26/08/2025</b>	CO1	
11	Meaning, Objectives and Importance of Measures of Central Tendency, Characteristics of a Good Measure of Central Tendency	PPT and White Board Lecture	<b>28/08/2025</b>	CO2	
12	Arithmetic Mean – Definition, Calculation (Ungrouped & Grouped Data), Merit and demerit	PPT and White Board Lecture	<b>02/09/2025</b>	CO2	
13	Numerical Problems on Arithmetic Mean	White Board and Discussion	<b>04/09/2025</b>	CO2	
14	Median – Meaning, Calculation (Ungrouped & Grouped Data), Merit and demerit	PPT and White Board Lecture	<b>04/09/2025</b>	CO2	
15	Numerical Problems on Median	White Board and Discussion	<b>05/09/2025</b>	CO2	
16	Mode – Meaning, Calculation (Ungrouped & Grouped Data), Merit and demerit	PPT and White Board Lecture	<b>09/09/2025</b>	CO2	
17	Numerical Problems on Arithmetic mean, Median & Mode	White Board and Discussion	<b>11/09/2025</b>	CO2	
18	Geometric Mean and Harmonic Mean – Meaning, Calculation and Applications	PPT and White Board Lecture	<b>12/09/2025</b>	CO2	
19	Relationship and Comparison among Mean, Median and Mode – Uses and Limitations	PPT	<b>15/09/2025</b>	CO2	

20	Numerical Problems on Central Tendency	White Board Lecture	<b>16/09/2025</b>	CO2	
21	Dispersion: Meaning, Objectives and Importance	PPT	<b>17/09/2025</b>	CO3	
22	Measures of Dispersion – Absolute and Relative	PPT	<b>18/09/2025</b>	CO3	
23	Range and Coefficient of Range – Calculation and Interpretation with numerical problem	PPT	<b>19/09/2025</b>	CO3	
24	Quartile Deviation and Coefficient of Quartile Deviation with numerical problem	PPT/White Board Lecture	<b>03/10/2025</b>	CO3	
25	Mean Deviation – Calculation and Applications with numerical problem	White Board Lecture	<b>09/10/2025</b>	CO3	
26	Standard Deviation – Concept, Computation and Significance with numerical problem	White Board Lecture	<b>14/10/2025</b>	CO3	
27	Coefficient of Variation – Concept and Business Use	White Board Lecture	<b>16/10/2025</b>	CO3	
28	Skewness – Meaning, Types and Measurement (Karl Pearson's Method)	White Board Lecture	<b>28/10/2025</b>	CO3	
29	Kurtosis – Meaning and Interpretation	White Board Lecture	<b>29/10/2025</b>	CO3	
30	Numerical Problems and Interpretation on Dispersion, Skewness & Kurtosis	White Board Lecture	<b>30/10/2025</b>	CO3	
31	Meaning and Significance of Correlation	PPT	<b>04/11/2025</b>	CO4	
32	Types of Correlation – Positive, Negative, Simple, Partial and Multiple	PPT	<b>04/11/2025</b>	CO4	

33	Methods of Studying Correlation – Scatter Diagram and Karl Pearson's Coefficient	White Board Lecture	06/11/2025	CO4	
34	Spearman's Rank Correlation – Concept and Calculation	White Board Lecture	07/11/2025	CO4	
35	Coefficient of Determination ( $R^2$ ) – Concept and Interpretation	White Board Lecture	07/11/2025	CO4	
36	Regression Analysis – Meaning and Importance	White Board Lecture	11/11/2025	CO4	
37	Lines of Regression and Regression Equations – Estimation of Dependent Variable	White Board Lecture	11/11/2025 and 13/11/2025	CO4	
38	Relationship between Correlation and Regression Coefficients	White Board Lecture	13/11/2025	CO4	
39	Numerical Problems and Interpretation on Correlation & Regression	White Board Lecture	14/11/2025	CO4	
40	Numerical Problems and Interpretation on Correlation & Regression	White Board Lecture	15/11/2025	CO4	

**Text Books:**

1. Vohra, N. D., Business Statistics, Tata McGraw Hill Publishing Company, New Delhi

**Reference Books:**

2. Levin, R.I. and D.S. Rubin, Statistics for Management, Prentice-Hall of India.