ST.JOSEPH’S COLLEGE FOR WOMEN ( AUTONOMOUS ) , VISAKHAPATNAM

III SEMESTER **B.COM (COMPUTERS)**  TIME:5HRS/WEEK

COM 3202 (4) **BUSINESS STATISTICS** MAX.MARKS:100

w.e.f. 2020 -2023(‘20 AH’ Batch) **SYLLABUS**

**OBJECTIVES:** To enable the students to –

1. acquire knowledge of business statistics.
2. apply the principles of quantitative techniques in decision making.
3. apply information technology in Business World.

# LEARNING OUTCOMES:

At the end of the course*,* the student will able to;

**CO 1:** Understand the importance of Statistics in reallife

**CO 2:** Formulate complete, concise, and correct mathematical proofs.

**CO3:** Frame problems using multiple mathematical and statistical tools, measuring relationships by using standardtechniques.

**CO 4:** Learn and apply the statistical tools in daylife.

**CO 5:** Create quantitative models to solve real world problems in appropriatecontexts.

**UNIT 1: INTRODUCTION TO STATISTICS:** Definition – Importance, Characteristics and Limitations ofStatistics -Classification and Tabulation – Frequency Distribution Table -Diagrams and Graphic Presentation of Data (including problems)

**UNIT 2: MEASURES OF CENTRAL TENDENCY:** Types of Averages – Qualities of Good Average - Mean, Median, Mode, and Median based Averages-Geometric Mean – Harmonic Mean(including problems)

**UNIT 3: MEASURES OF DISPERSION:** Meaning and Properties of Dispersion – Absolute and Relative Measures - Types of Dispersion-Range - Quartile Deviation (Semi – Inter Quartile Range) -Mean Deviation - Standard Deviation - Coefficient of Variation. (including problems)

**UNIT 4: SKEWNESS AND KURTOSIS:** Measures of Skewness: Absolute and Relative Measures- Co-efficient of Skewness: Karl Pearson’s, Bowley’s and Kelly’s - Kurtosis: Meso kurtosis, Platy kurtosis and Leptokurtosis (including problems)

**UNIT 5: MEASURES OF RELATION:** Meaning and use of Correlation – Types of Correlation - Karlpearson’s Correlation Coefficient - Probable Error-Spearman’s Rank-Correlation (including problems)

# SUGGESTED READINGS:

1. Business Statistics, Reddy C.R., DeepPublications.
2. Statistical Methods: Gupta S.P.Sultan Chand &Sons.
3. Statistics-Problems and Solutions: Kapoor V.K, Sultan Chand&Sons.
4. Fundamentals of Statistics: Elhance.D.N
5. Business Statistics, Dr.P.R.Vittal, MarghamPublications
6. Business Statistics, LS Agarwal, KalyaniPublications.
7. Statistics: Dr V Murali Krishna, Seven Hills InternationalPublishers.
8. Fundamentals of Statistics: Gupta S.C. Sultan Chand&Sons.
9. Statistics-Theory, Methods and Applications: Sancheti, D.C. & KapoorV.K.
10. Business Statistics: J.K. Sharma, VikasPublishers.
11. Business Statistics: Bharat Jhunjhunwala, S ChandPublishers.
12. Business Statistics: S.L.Aggarval, S.L.Bhardwaj and K.Raghuveer, Kalyani Publishers.

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