

# ADIKAVI NANNAYA UNIVERSITY

## RAJAMAHENDRAVARAM

CBCS / Semester System

(From 2015-16 Admitted Batch)

B.COM. (General & Vocational)

### III Semester Syllabus

#### DSC 2C - Business Statistics

##### **Unit 1: Introduction to Statistics:**

Definition, importance and limitations of statistics - Collection of data - Schedule and questionnaire – Frequency distribution – Tabulation -Diagrammatic and graphic presentation of data using Computers (Excel).

##### **Unit 2: Measures of Central Tendency:**

Characteristics of measures of Central Tendency-Types of Averages – Arithmetic Mean, Geometric Mean, Harmonic Mean, Median, Mode, Deciles, Percentiles, Properties of averages and their applications.

##### **Unit 3: Measures of dispersion and Skewness:**

Properties of dispersion – Range - Quartile Deviation –Mean Deviation-Standard Deviation-Coefficient of Variation-Skewness definition-Karl Pearson's and Bowley's Measures of skewness-Normal Distribution.

##### **Unit 4: Measures of Relation:**

Meaning and use of correlation – Types of correlation-Karl Pearson's correlation coefficient – Spearman's Rank correlation-probable error-Calculation of Correlation by Using Computers. Regression analysis comparison between correlation and Regression – Regression Equations- Interpretation of Regression Co-efficient.

##### **Unit 5: Analysis of Time Series & Index Numbers:**

Components of Time series- Measurement of trend and Seasonal Variations – Index Numbers- Methods of Construction of Index Numbers – Price Index Numbers – Quantity Index Numbers – Tests of Adequacy of Index Numbers – Cost of Index Numbers-Limitations of Index Numbers – Use of Computer Software.

##### **Suggested Readings:**

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| 1. Business Statistics                         | Reddy, C.R Deep Publications. |
| 2. Statistics-Problems and Solutions           | Kapoor V.K.                   |
| 3. Fundamentals of Statistics                  | Elhance.D.N                   |
| 4. Statistical Methods                         | Gupta S.P                     |
| 5. Statistics                                  | Gupta B.N.                    |
| 6. Fundamentals of Statistics                  | Gupta S.C                     |
| 7. Statistics-Theory, Methods and Applications | Sancheti,D.C. &Kapoor V.K     |
| 8. Business Statistics                         | J.K.Sharma                    |
| 9. Business Statistics                         | Bharat Jhunhunwala            |

