

BBA&MM- SN101
[w.e.f. 2020-21 Admitted Batch]

SYLLABUS FOR SEMESTER I (BBA)

Quantitative Methods for Managers

UNIT I:

Introduction to Business: Meaning definition, functions, importance and limitations of Statistics – Collection of data – Primary and Secondary data – Schedule and questionnaire – Frequency distribution – Tabulation, Diagram and graphic presentation of data – Statistical system in India

UNIT – II:

Measures of Central Tendency and Dispersion: Definition, objectives and characteristics of Measures of Central Tendency Types of Averages Arithmetic Mean, Geometric Mean Harmonic Mean, Median, Mode, Quartiles, Deciles, percentiles, Properties of averages and their application. Meaning, definitions, objectives of Dispersion, Range Quartile Deviation, Mean deviation, Standard Deviation Co-efficient of variation – Definition and objectives of Skewness – Karl Pearson's and Bowle's measures of skewnes.

UNIT – III:

Measures of Correlation: Meaning, Definition and use of correlation – types of correlation Karl Pearson's correlation co-efficient Spearman's Rank correlation probable error Meaning utility of regression analysis comparison between Correlation and Regression – Regression Equations – Interpretation of Regression Co-efficient.

UNIT – IV:

Set Theory: Set, Subset, Types of Sets – Operations on sets – Venn Diagram Demogran Laws – Applications of Set theory Laws of indices Arithmetic Progressions Geometric Progressions Harmonic Progressions.

UNIT – V:

Matrix: Meaning and operations – Matrix Algebra – Types of matrices – Matrix addition – Matrix Multiplication Matrix Determinants, Minors and Co-factors Matrix inversion.

RECOMMENDED BOOKS: 1. Sivayya K. V. and Satya Rao, Business Mathematics, Saradhi Publications, Guntur. 2. Sancheti and Kapoor V K., Business Mathematics, Sulthan Chand & Sons, New Delhi. 3. D. N. Lhance: Fundamental of Statistics, Kitab Mahal, Allahabad. 4. Gupta S.C. : Fundamentals of Business Statistics, Sultan Chand, New Delhi. 5. Aggarwal, Business Statistics, Kalyani Publishers, Hyderabad. 6. Reddy C R, Business Statistics, Deep & Deep Publications, New Delhi.

