

OUTLINES OF TESTS, SYLLABI AND COURSES OF READING

for

B.B.A. Mathematics Part I (Semester I)

Academic Sessions
2025–26 and 2026–27

NEP-TEMPLATE FOR MULTIDISCIPLINARY UG PROGRAMME



POST GRADUATE DEPARTMENT OF MATHEMATICS
GURU NANAK COLLEGE BUDHLADA
AN AUTONOMOUS COLLEGE
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Rakesh
Kumar

AP

Sntism

Bhavit Goyal

SCHEME OF THE COURSE**B.B.A. I SEMESTER I**

Semester I							
Type of Course	Course Code	Course Title	Internal	External	Practical	Total	Credit
Major	BBA103	Business Statistics	30	70	-	100	04

Rakesh
Kumar

Senthu.

AB.

Bhavit Goyal

SEMESTER I
: Business Statistics
(Major)

Credits: 04(L)
Time Allowed: 3 Hrs.
Pass percentage: 35%

External Exam Marks: 70
Internal Assessment: 30
Total Marks: 100

COURSE OBJECTIVES: This course aims to develop logical reasoning abilities essential for analytical thinking and informed decision-making. It enables students to acquire skills in organizing, summarizing, and interpreting data effectively. Emphasis is placed on applying statistical methods to real-world business problems, facilitating accurate trend analysis and strategic decision-making.

COURSE OUTCOMES: On completion of this course, the students will be able to

1. To establish the importance of logical reasoning in human inquiry.
2. To demonstrate data handling skills and summarize data with clarity.
3. To extend an understanding of application of relevant concepts of Statistics to a given business scenario.
4. To understand business problems and make decisions using appropriate statistical models and explain trends
5. To demonstrate the knowledge on the process of organizing a data and conduct statistical

INSTRUCTIONS FOR THE PAPER-SETTER

The question paper will consist of three Sections: A, B and C. Sections A and B will have four questions each from the respective section of the syllabus and will carry 12 marks for each question. Section C will consist of 11 short answer type questions and each question will carry 2 marks.

INSTRUCTIONS FOR THE CANDIDATES

Candidates are required to attempt five questions in all, selecting two questions each from section A and B and compulsory question of section C.

SECTION-A

Introduction to Statistics- Definition, Importance and Limitations, Functions and scope

Measures of Central Tendency, Classification and tabulation of data, frequency distribution, diagrams and graphs, measure of central tendency- arithmetic mean, weighted arithmetic mean, median, mode and meaning of partition values quartiles, deciles, percentiles

Dispersion: Measures of dispersion - range, quartile deviation, mean deviation from mean and median, standard deviation and coefficient of variation.

Correlation: Meaning, definition and use of correlation, covariance, scatter diagram, types of correlation, Karl Pearson's correlation coefficient, Spearman's Rank correlation coefficient, probable error.

Rakesh Kumar

Bhavit Goyal

Abh.

Santosh

SECTION-B

Regression and Time Series: Regression- meaning and utility of regression analysis, comparison between correlation and regression, regression lines -x on y, y on x, regression equations and regression coefficients. Definition of Time Series. Components of Time Series. Methods for measuring secular trends: i) Methods of Semi Averages ii) Methods of Moving Averages iii) Method of Least Squares (only for straight line).

Index numbers: Need, definition and limitations of Index numbers-simple and weighted index numbers Laspyer's, Paasche's and Fisher Index numbers, Criterion of ideal index numbers, problems involved in the construction of index numbers.

RECOMMENDED BOOKS

1. Levin R. I.& Rubin D. S. Statistics for Management. Delhi: Pearson.
2. Pillai & Bagavathi. Statistics, Theory and Practice, S Chand Publishing
3. SP Gupta. Statistical Methods, Sultan Chand and Sons

Rakesh
Kumar
AK.

Bhaskar Gopal

Sritish.