

Phool Singh Bisht Rajkiya Mahavidyalaya Naugar,
Lambgaon, Tehri Garhwal

B.A.-III Year, PAPER-I [Basic Quantitative Concepts]

COURSE PLAN FOR ACADEMIC SESSION 2023-24

UNIT- 1 Introduction and Basic Concepts

Meaning and definition of Statistics	02
Scope, Importance and Limitations of Statistics	02
Collection of Data: Primary and Secondary Data	05
Questionnaire And Schedule	02
Census Method	01
Sampling Method	02
Total	14

UNIT-2 Classification and Tabulation of Data

Meaning, definition, Objectives and types of Classification	02
Tabulation of data	02
Diagrammatic representation of data (Meaning)	01
One dimensional diagrams	03
Two dimensional diagrams	03
Graphical representation of data	04
Total	15

UNIT-3 Measures of Central Tendency

Meaning and Objectives of Central Tendency	02
Arithmetic Mean	04
Median	03
Mode	04
Geometric Mean	02
Harmonic Mean	02
Partition Value	02
Total	19

UNIT-4 Measures of Dispersion

Definitions, Objectives of Dispersion	02
Quartile	02
Mean Deviation	03
Standard Deviation	02
Co-efficient of Variation	02
Co-efficient of Skewness	02
Meaning and Definitions of Correlations	01
Types and Degree of Correlations	01
Karl Pearson's and Bowley's Methods Correlations	04
Spearman's Rank Difference Method of Correlations	02
Association of Attributes: Yule Coefficient of Association	03

Total	24
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UNIT-5 Matrices

Equation of Straight Line	04
Elementary knowledge of Differential Calculus	04
Basic Concepts of Determinants and Matrices	05
Simple operations on Matrices	05
Total	18

TOTAL LECTURES -90

Suggested Readings:

1. Mehta, B.C. & G.M.K. Madnani: Elementary Mathematics in Economics
2. Mehta, B.C. & G.M.K. Madnani: Arthashastra Mein Prarambhik Ganit
3. Gupta, S.C. : Fundamentals of Statistics
4. Gupta B.N. Quantitative Techniques

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