

Course III Research Methods and Statistics

Block - 1

- Unit - 1 Scientific Method - Nature - Its application to Social Research
- Unit - 2 Social Research - Meaning - Scope - Importance - Stage - Subjectivity and Objectivity in Social Research
- Unit - 3 Methods of Social Research - Case Study - Historical Descriptive - Empirical - Comparative Methods
- Unit - 4 Research Design - Meaning - Types - Conditions - Problems

Block - 2

- Unit - 5 Hypothesis - Meaning - Sources - Characteristics Types - Importance
- Unit - 6 Sampling - Meaning - Types - Merits and Demerits
- Unit - 7 Social Survey - Meaning - History - Subject Matter - Types - Merits and Demerits - Differences between Social Survey and Social Research
- Unit - 8 Data Collection - Primary and Secondary Sources Observation - Participant Observation and Participatory Research Appraisal - Meaning - Types - Merits and Demerits

Block - 3

- Unit - 9 Questionnaire - Definition - Types - Mailed Questionnaire Structure - Merits and Demerits
- Unit - 10 Interview - Definition - Preparation - Techniques - Types - Merits and Demerits
- Unit - 11 Schedule - Meaning - Classification - Merits and Demerits - I Differences between Schedule and Questionnaires
- Unit - 12 Sociometry = Importance - Sociometric Matrix - Sociogram - Scaling Techniques - Types

Block - 4

- Unit - 13 Analysis of Data Coding - Editing - Tabulation
- Unit - 14 Preparation of Research Report
- Unit - 15 Statistics - Meaning - Types - Importance - Limitations Assembling and Tabulation of Data Presentation of Results
- Unit - 16 Diagrammatic and Graphical Representation of Data - Types - Uses - Limitations

Block - 5

- Unit - 17 Central Tendency - Meaning - Properties - Merits and Demerits Measures - Arithmetic Mean - Meaning Merits and Demerits - Computations
- Unit 18 Median Meaning - Merits and Demerits - Computations Mode - Meaning - Merits and Demerits - Computations (3 Median - 2 Mean) Use of Logarithms in Computations

- Unit - 19 Dispersion – Meaning Measures Range – Meaning – Computations.
Quartile Deviation – Meaning – Computations
- Unit - 20 Mean Deviation – Meaning – Computations Standard Deviation –
Meaning – Computations – Coefficient of Variation – Meaning –
Computations Skewness and Kurtosis

Block - 6

- Unit - 21 Correlation – Meaning – Pearson’s Product Moment Correlation (r) –
Computations
- Unit - 22 Rank Correlation – Meaning – Speannan’s Rank Correlation (R)-
Computations Regression Analysis – Linear Regression –
Computations
- Unit - 23 Association of Attributes – Chi – square Test (χ^2) – o – e Method – I
Computations
- Unit - 24 Contingency Table – Uses – 2 x 2 Table – 2x 3 Table – Computations

Block - 7

- Unit - 25 Test of Significance – ‘t’ test Meaning – Computations
- Unit - 26 Probability – Definition – Simple Properties – Some Examples
Binomial Distribution Normal Distribution – Simple Properties –
Simple Problems – Importance
- Unit - 27 Age and Sex Composition – Age Pyramid – Factors affecting Age and
Sex Composition – Significance of Age and Sex Distributions
- Unit - 28 Vital Statistics – Meaning – Rates of Vital Events – Measurement of
Fertility – Measurement of Mortality Examples

Reference

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