

PAPER CODE:42564

Paper – IV RESEARCH METHODS AND STATISTICS – II

Unit – I

General designs of research : elements of good and poor designs.

Types of Research : Expost-Facto research, Laboratory research, Experiments, Survey research, Field studies.

Unit – II

Sampling concept and methods.

Techniques of data collection: Interview, Questionnaire, Observation, Tests, Scales, Sociometry; Semitic differential method; critical incidence and Q-sort techniques.

Research Report writing, Essentials & Characteristics. Type of Report.

Unit – III

Non-parametric statistics – Chi-square, sign test, median test and Mann Whitney U Test.

Analysis of variance – one way, two way.

Unit – IV

Factor and Cluster Analysis – Principle and Diagonal Methods, Cluster analysis B – Coefficient method.

Unit – V

Data Analysis and the Computer, Computer Fundamental and Components of Computer.

Application of SPSS in Psychological Statistics.

Recommended Books

1. Arthur, A. Elaine, W.A. and Elliot, J.C. (2006), Statistics for Psychology, New Delhi : Pearson Education.
2. Chadha, N.K. and Sehgal, P.R.L. (1984), Statistical Methods in Psychology, New Delhi : E.E.P.
3. D'Amato, M.R. (1979), Experimental Psychology : Methodology, Psychophysics and Learning, New Delhi : Tata McGraw Hill.
4. Fruchter, B. (1967), Introduction to factor analysis, New Delhi : East-West Press.
5. Garrett, H.E. (1986), Statistics in Psychology and Education, New York : David, Mckay Co. Inc.
6. Guilford, J. P. and Fruchter, B. (1978), Fundamental Statistics in Psychology and Education, New York : McGraw Hill.
7. Kerlinger, F.N. (1964), Foundations of Behavioural Research, New York : Holt, Rinehart and Winston.
8. Nunnally, J.C. (1967), Psychometric Theory, New York, McGraw Hill.
9. Siegel, S. (2000), Non Parametric Statistics for Behavioral Sciences, London : McGraw Hill.
10. Singh, A.K. (2008), Tests Measurements and Research Methods in Behavioural Sciences, New Delhi : Bharti Bhawan.
11. Asthana and Braj Bhushan : 2007- Statistics for Social Sciences, Prentice Hall of India Pvt. Ltd. New Delhi