

Deviation (Properties and Comparison); Calculation of Range, Variance and Standard Deviation from Raw Scores.

Unit- III

(15 Hours)

Standard (z) Scores: Standard Scores; Properties of z-Scores; Transforming Raw Scores Into z-Scores, Determining Raw Scores From z-Scores, Some Common Standard Scores, Comparison of z- Scores and Percentile Ranks; The Normal Probability Distribution: Nature, Properties and Applications.

Meaning of Correlation; Correlation and Causation; Calculating Pearson's Correlation Coefficient from Raw Scores.

Unit- IV

(10 Hours)

Defining features of a psychological test, Reliability, Validity, Norms, Types of tests, Applications and Ethical issues.

Practical component –

(30 Hours)

Suggestive list of practicals:

1. Graphical presentation of data
2. Problems based on mean, median, mode
3. Problems based on variance and standard deviation
4. Problems based on Pearson's correlation
5. Intelligence test
6. Personality test

Essential/recommended readings

Chadha, N. K. (2009). *Applied Psychometry*. SAGE Publications India.

Gregory, R.J. (2017). *Psychological Testing: History, Principles, and Applications* (7th Ed.). Pearson Education.

King, B.M., Rosopa, P.J., & Minium, E.W. (2018). *Statistical Reasoning in the Behavioral Sciences* (7th Ed.). Wiley.

Murphy, K.R. & Davidshofer, C.O. (2019). *Psychological Testing: Principles & Applications* (6th Ed.). Pearson Education.

Suggestive readings

Aron, A., Coups, E.J. & Aron, E.N. (2013). *Statistics for Psychology* (6th Ed.). Pearson Education.

Garrett, H.E. (2005). *Statistics in Psychology and Education*. Paragon International Publishers.

Mangal, S.K. (2010). *Statistics in Psychology and Education* (2nd Ed.). PHI Learning.

Note: Examination scheme and mode shall be as prescribed by the Examination Branch, University of Delhi, from time to time.