

**Raffles University,Neemrana**

**School of Humanities and Social Sciences**

**SEMESTER IV**

**CODE –PSY401**

## **STATISTICAL METHODS AND PSYCHOLOGICAL RESEARCH**

**Objective:** To introduce basic statistical methods, psychological testing and qualitative methods and their uses.

**Unit 1: Introduction:** Scales of measurement, graphical representation of data

**Unit 2: Data analysis:** Measures of central tendency: Mean, median, mode (properties and computation). Standard deviation: properties and computation. Correlation: Pearson method, properties of Normal Probability Curve (NPC).

**Unit 3: Psychological Testing:** Introduction to psychological testing, characteristics of test, Reliability, Validity, Norms, types of tests.

**Unit 4: Qualitative methods:** Interview, observation, case study

**Practicum:** Two practicum to be done: 1 test and one practical based on unit 4.

### **Readings:**

Garrett, H.E. & Woodworth, R.S. (1987). *Statistics in Psychology and Education*. Mumbai: Vakils, Feffer & Simons Pvt. Ltd.

Gregory, R.J. (2006). *Psychological Testing: History, Principles, and Applications (4<sup>th</sup> Ed.)*. New Delhi: Pearson Education.

King, B.M. & Minium, E.W, (2007). *Statistical Reasoning in the behavioral Sciences USA*: John Wiley & Sons.

Kerlinger, F.N. & Lee, H.B. (1999). *Foundations of Behavioural Research*. Wadsworth-Thomson Learning