



TRIPURA UNIVERSITY

**(A Central University)
Suryamaninagar-799022**

**Syllabus
OF**

**Psychology
(Major & General)**

Semester – III

2014

III. Statistical Methods in Psychological Research

Unit I:

- Concept and Calculation of Combined Mean.
- Measurement of Variability: Range, AD, QD, SD & Combined SD.
- Measurement of percentile and percentile rank.
- Normal probability curve : properties and application (Theoretical Concept)
- Concept and measurement of skewness and kurtosis.

Unit II:

- Inferential statistics: concept and steps involved in drawing an inference.
- Population and sample, sampling distribution.
- Theoretical Concept of Standard error of mean for both large and small sample.
- Type I & Type II error of inference.
- Nature and assumptions of parametric and non-parametric statistics and their uses, basic concept on hypothesis and degrees of freedom.

Practical:

- Computation of t test (for large, small, equal and unequal sample)
- Computation of chi-square
- Computation of correlation- Product moment and Rank Order Correlation

References: The latest editions of the following books are recommended:

- Das, D and Das, A. : Statistics in Biology and Psychology.
- Garret. H. E. and Woodworth, R. S.: Statistics in Psychology and Education.
- Guilford, J. P. and Fitcher, B.: Fundamental Statistics in Psychology and Education.
- Mangal, S. K. : Statistics in Psychology and Education.

CIP3: Psychology of Intelligence

Unit I:

- Intelligence : concept, nature, types and nature nurture controversy
- Concept of IQ, EQ & SQ, IQ constancy. Importance of measuring IQ, EQ and SQ.
- Measurement of intelligence: verbal and nonverbal tests of Intelligence.

Unit II:

- Theories of Intelligence: Spearman's two factor theory- its application.
- Guilford's model of intelligence – it's application.
- Mental retardation and giftedness – concept, causes, rehabilitation.

Practical:

- Measurement of concrete intelligence by Koh's block design test.
- Measurement of intellectual functioning by standard progressive matrices.
- Measurement of EQ by a suitable test.

References: The latest editions of the following books are recommended:

- Aggarwal: Essentials of Educational Psychology
- Advanced Educational Psychology: S.K. Mangal
- Chauhan. S. S. : Advanced Educational Psychology