BA III- Psychology 2016-17 Semester V

Course code- 545120 **DC Title- Research Methods and Statistics**

No. of Credits-4,   Marks 100 (25 internal, 75 external)

Course Objectives:

The learner will be able to:

- describe research process in Psychology

- explain basic concepts in Statistics and the various measures of Descriptive Statistics

- explain characteristics, uses, applications and methods of calculation of the various measures

Module I – Introduction to Research Methods

Objectives: After studying the module, you will be able to

- explain research process in Psychology

- describe the process, types and methods used in research

1.1   Introduction to Research Process
1.2   Types of research – Experimental, Quasi- Experimental & Exploratory Research
1.3   Methods of data collection
-       Interview
-       Survey
-       Secondary sources
1.4   Sampling techniques used in research
-       Probabilistic and Non probabilistic sampling techniques
1.5   Report Writing

Module II- Introduction to Statistics

Objectives: After studying the module, the learner will be able to

•   explain the basic concepts in statistics
2.1   Importance, Need, Uses and limitations of Statistics
2.2   Concepts of Parametric and Non Parametric Statistics
2.3   Graphical representation of data
2.4   Concept of Normality and Measures of divergence

Module III- Measures of Central tendency and Measures of Dispersion and Percentile

- explain concepts of central tendency percentile and variability

- compute and use measures of central tendency percentile and variability

3.1   Measures of Central Tendency- Concept, Calculations, Merits & Demerits, & Uses
3.2   Measures of Variability - Concept, , Merits & Demerits, & Uses -Average Deviation, Quartile Deviation , Standard Deviation (Computation only Standard Deviation)
3.3   Concept, Merits and demerits of Percentile& Percentile Rank

Module IV - Measures of Association

Objectives

- explain the concept of association
- compute co-efficient of correlation
- interpret the findings

4.1   Assumption for calculation of coefficient of correlation
4.2   Meaning of positive , negative and zero correlation
4.3   Uses and limitations of coefficient of correlation
4.4   Computation and interpretation of coefficient of correlation by product moment and rank order
correlation

Internals:
1.   Class Test
2.   Small Research study using statistics.

Books for Study

Garrett H E, (2009) "Statistics in Psychology and Education" ,(6th Edition), Paragon International Publishers.

Guilford, J.P., &Fructore, B (1978).Fundamental Statistics for Psychology & Education. N.Y: McGraw –Hill

Kumar, R (2011) " Research Methodology: A Step-By-Step Guide For Beginners" (3rd Edition),Sage Publications India Pvt Ltd.

References:

Howell D.C (2007) Statistical Methods for Psychology (7th Ed.) Thomson Wadsworth

McBurney, D.H (2001) Research Methods (5[th]ed) Bangalore: Thomson Learning India