



St. Joseph's College for Women(A), Visakhapatnam

NAAC Reaccredited-ISO 9001-2015,14001:2015 Certified



3.4.1 Syllabus Copy of Research Methodology Course Work

References:

1. Bandarkar, P.L. and Wilkinson T.S. (2000): Methodology and Techniques of social Research, Himalaya Publishing House, Mumbai.
2. Bhatnagar, G.L. (1990): Research Methods and Measurements in Behavioural and Social Sciences, Agri. Cole Publishing academy, New Delhi.
3. Dooley, D. (1995): Strategies for Interpreting Qualitative Data; Sage Publications, California.
4. Gay, L.R. (1981): Educational Research, proper Solutions: Avoiding Errors in Quantitative Research. II Edn. Sage Publications: Beverly Hills, California.
5. Long; J.S. (Ed) (1988): Common Problems Proper Solutions: Avoiding Errors in Quantitative Research, Beverly Hills, Sage Publications, California.
6. Mukherjee, R. (1989): The Quality of Life: Valuation in Social Research, Sage Publications, New Delhi.
7. Stranss, A. and Corbin, J. (1990); Basis of Qualitative Research: Grounded Theory Procedures and Techniques, Sage Publications, California.

Functions and applicability of questionnaires

B. Rating scales

Types of rating scale (Numerical, graphical, standard, Q sort, Semantic differential, sociometry)

Errors in ratings

Methods of improving effectiveness of rating scales

3. Types of research

A. Experimental research

Laboratory experiments Field experiments

B. Non-experimental research

Ex-post facto research

Field study

Survey research

Case studies Ethnographic studies

Unit-III Statistics

A. Types of scales (Ordinal, Nominal, Interval and ratio scales)

B. Graphic representation of data

C. Measures of central tendency and variability

D. Characteristics, deviations and applications of normal probability curve

E. Standard error for measures of central tendency and variability

F. Correlations -

Pearson Product moment correlation

Rank order correlation

Biserial correlation

Point biserial correlation

Tetra choric correlation

Phi coefficient

Partial correlation

Multiple correlation

G. Regression analysis

H. Factor analysis

I. Multivariate statistics

J. Non parametric statistics

Chi-square

Sign test

Median test

Sign rank test

u test

Kruskal-Wallis H test

Friedman test

Unit-IV Designs

Between subject designs

Two randomized group designs

More than two randomized group designs Factorial design

Matched group designs

Statistical analysis – t test, F test.

Within subject designs

Two conditions

Several
conditions
Evaluation
Statistical analysis – t test, F test

Single subject designs

Paradigm of single subject experimental research with draw designs
Reversal design
Multiple base line designs Changing criterion designs
Data analysis
Evaluation

Quasi-experimental designs

Unit-V Writing a research report

Structure and format
Style of writing
Evaluating a research report

Recommended reading:

1. D.Amto, M.R.(1979).Experimental Psychology, MethodologyPsychophysics and Learning. New Delhi : Tata Mc-Graw Hill.
2. Garrett, H.E. (1966) Statistics in Psychology and Education.
Bombay : Vakils Feefer & Simon Pvt. Ltd.
4. Guilford J.P. (1965). Fundamental Statistics in Psychology and Education
(4th Edn.). New Delhi: Subject Publications.
5. Herson, M. & Barlow, D.H. (1980) Single – Case Experimental Designs
NewDelhi : Prentice – Hall of India Limited.
6. Kerlinger, F.N. (1978) Foundations of Behavioural Research, NewDelhi :
Subject Publications.
7. Kurtz, A.K. & Mayo, S.T. (1980). Statistical methods in Educationand Psychology.
New Delhi : Narosa Publishing House.
8. Mc.Guigan, F.J. (1990) Experimental Psychology New Delhi:Prentice Hall of
India Limited.