

SYLLABUS



(SCHEME OF COURSE WORK FOR Ph.D.)

SESSION ; 2011-12

IASE Deemed University
GVM, SARDARSHAHR

RESEARCH METHODOLOGY & TOOL DEVELOPMENT

COURSE OBJECTIVES :-

- (a) To provide the knowledge of meaning, significance, objectives and need of educational research to research scholars.
- (b) To enable the research scholars to understand the different types of research and its characteristics.
- (c) To provide the knowledge of procedure of different psychological tools' administration to the research scholars
- (d) To enable the research scholars to understand the methods of applications of different statistical methods for data analysis
- (e) To provide the knowledge to research scholars of preparing Research Proposal.
- (f) To provide the knowledge to the research scholars of tool construction & standardisation.
- (g) To create interest in research scholars to use computer in their research.

Course Contents :

UNIT - I – Concept Educational Research -

- (a) Meaning of Research, Significance, objectives and need of Educational Research.
- (b) Selection of Research Problem.
- (c) Review of Related Literature.
- (d) Construction of Objectives.
- (e) Hypothesis and its formulation.
- (f) Research Design, Population and Sampling,
- (g) Tools and Data Collection.
- (h) Statistical Analysis of Data quantitative and qualitative analysis.
- (i) Formulation of Conclusions, Generalization and identification of future directions.

UNIT - II – Types of Educational Research –

- (a) Historical Research
- (b) Descriptive Research - Survey & Normative Survey.
- (c) Experimental Research.
- (d) Action Research.
- (e) Development of a Research Plan.

UNIT - III - Report Writing -

- (a) Need for writing a coherent and systematic research report.
- (b) Format of Research Report.
- (c) Writing Research Report.
- (d) Writing Research Abstract.
- (e) Writing research paper.

UNIT - IV - Development of Research Tools -

- (a) Need, Nature and types of data.
- (b) Psychological tools - Meaning, Types and Administration procedure.
- (c) Principles and step of tool construction.
- (d) Standardisation of research tools.

UNIT - V – Statistical Application –

- (a) Mean, Median, Mode.
- (b) Mean Deviation & Standard Deviation.
- (c) Graphical Presentation of data.
- (d) Normal Probability Curve.
- (e) Correlation & its uses in Research.
- (f) “t” test, its meaning, purpose; assumptions and uses.
- (g) Chi-square test, its purpose and use.
- (h) Different Applications of Computer in Research Work.

Note :

- 1. Reviewing Research Papers published in National/International Research Journals of Education.
- 2. Reviewing of Research Work completed by any Research Scholar in previous time.

REFERENCES

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- 2. Guiford , J.P.: Fundamental Statistics in Psychology and Education, London Mc Graw Hill Book Co.
- 3. Sellting, Clainandtures, Research Methods in Social Relation; London Nethuses & Co.
- 4. Travers, R.M.W., An introduction to Educational Research, London Mc Millian Co.
- 5. Verma, An Introduction to Educational & Psychological Research, Bombay, Asia publishing house.
- 6. Sukhia, S.P., Melhotra, P.V. , Elements of Educational Research, New Delhi, Allied Publishers.
- 7. Best, J.W., Research in Education, Englewood, Chiffs, J.N. Prentice Hall.
- 8. Good, W & Hatt. P.K. : Method of Social Research, London McGrew HillBook Co. 1962.
- 9. Good : Methods of Educational Research, Appleton Centurry Crofts New York.
