

Solapur University, Solapur
(Common Paper for Faculty of Education)
(w.e.f. June 2014-15)

Paper – Ist

**RESEARCH METHODOLOGY AND INFORMATION
COMMUNICATION TECHNOLOGY.**

Unit 1 : Educational Research :

- a) Research of Scientific thinking
- b) Scientific Method.
- c) Methods of acquiring knowledge.
- d) Errors in Conducting Research.

Unit 2 : Qualitative and Quantitative Research :

- a) Qualitative Research : Nature, Need and Organization.
- b) Quantitative Research : Nature, Need and Organization.
- c) Review of Related Research.
- d) Standardization of the Research Tools.

Unit 3 : Statistics in Research :

- a) Bivariate Statistics,
Means, t-test, f-test, ANOVA;
- b) Correlation : (i) Bivariate (ii) Partial
- c) Linear regression
- d) Factor analysis.

Unit 4 : Use of I C T in Educational Research :

- a) e – information
 - (i) Transformation in financial information
 - (ii) Information project
 - (iii) Selected Related Research
- b) e – book
 - (i) Meaning

- (ii) Formats
- (iii) e-reader application
- c) e –submission
 - (i) Meaning
 - (ii) Role of e-submission in Research.

Unit 5 : Components of Educational Research :

- a) **Impact factor** – Calculation, use, other measures.
- b) **Patents** – Agencies, National / International, procedure for filling.
- c) **h-index** - Scholar h-index calculator, h-graph, h-number, redefinition on the h-index.
- d) National / International Publications -
 - (i) ISSN Journal's
 - (ii) ISBN Books

Books Recommended :

- 1) Agrawal, J.C. : *Education Research Introduction*.
- 2) Best, J.W., Kahn, V. : *Research in Education*.
- 3) Garrett : *Statistics in Psychology*.
- 4) Entuistle, N.J. (1974). *The Nature of Educational Research*, Educational studies. A Third Level Course Methods of Educational Enquiry Block. The Open University Press Walton Hall, Milton Keynea.
- 5) Fern, Edward, F. (2001). *Advanced Focus Group Research*, New Delhi, Sage Publications Indian Pvt. Ltd.
- 6) Kothari, C.R. : *Research Methodology, Methods and Techniques*.
- 7) Mariampoliski II (2001). *Qualitative Market Research – A Comprehensive Guide*, New Delhi, Sage Publication India Pvt. Ltd.
- 8) Mouly, George, (1964). *The Science of Educational Research*, New Delhi, Eurasia Publishing House.
- 9) Thomas, Black (2001). *Understanding Serial Science Research*, New Delhi, Sage Publications India Pvt. Ltd.
- 10) Wikipedia : encyclopedia – website.