

Solapur University, Solapur**Ph. D. Course Work****(W. E. F. June 2011)****Paper –I (Compulsory)****RESEARCH METHODOLOGY AND INFORMATION
COMMUNICATION TECHNOLOGY****(Common Paper for Faculty of Social Sciences)****1. Introduction to Research:**

Meaning, Nature and Scope of Research, Types of Research, Inductive and Deductive Research, Theory, Hypothesis, Rational Explanation, Limitations of Scientific Explanation..

2. Formulation of Research Problem:

Qualities of Good Research, Types of Research, Review of Literature, Analysis of an article, Formulation of Research Problem, Definition of Concepts, Objectives of Research, Research Design.

3. Process of Research:

Data Collection Methods, Field Work, Excavation and Exploration, Dating Technique, Data Analysis and Presentation, Writing of Report.

4. Data Analysis and Statistical Methods:

Sample Design, Types of Data (Qualitative and Quantitative), Central Tendency, Dispersion, Correlation and Regression, Testing of Hypothesis, Chi-square test.

5. Computer Application in Research:

Application Software, MS Word, MS Excel, MS PowerPoint, Photoshop, PDF files, Statistical Packages for Social Sciences (SPSS)

6. ICT and Research:

Definition of ICT, Internet, Website, WAN, LAN, Online Publication, Impact Factor, Scopus, E-information, H-index, Citation Index and E-submission, e-journal, e-reviews, GIS and GPS, Graphics and Maps, ISSN, ISBN.

References:

1. Baily K.D, 1982, Methods of Social Research Free press, New York.
2. Bose Pradip Kumar, 1995: Research Methodology, New Delhi, ICSSR.
3. Kothari, C. R. (2010), Research Methodology, Vikas Publishing House, New Delhi.
4. Puch, Keith, 1986, The Introduction to Social Research, London, Sage.
5. Rajaram,V, (1996), Fundamentals of Computers, Prentice Hall of India, New Delhi.
6. Sinha, P. K. (1992), Computer Fundamentals, BPB Publications, New Delhi.