



# Bhartiya Skill Development University

## Syllabus for Ph.D. Entrance Test

### Research Methodology

**Research:** Meaning, Definitions and its Importance.

**Types of Research:** Fundamental or Pure Research Applied Research, Historical Research, Descriptive Research, and Experimental Research.

**Defining the Research Problem:** Selecting the Problem, Technique Involved in Defining a Problem.

**Research Proposal:** Steps Involved in Research proposal.

**Related Literature Review:** Goals / Purpose of the review.

**Sampling Techniques:** Probability and Non-Probability Sampling Techniques.

**Data Collection:** Primary and Secondary data.

**Tools:** Questionnaire, Interview, and Tests & Inventories.

**Characteristics of a Good Test Statistics in Research:** Measures of Central Tendency, Measures of Variability, Measures of Asymmetry (Skewness), Measures of Relationship.

**Role of Computer in Research:** The Computer System, Computer Applications.

**Report Writing:** Steps in Writing a Report.

#### **References:**

1. Anand, C.L. and Piloo, Buch (1991): "Research in Higher Education: A Trend Report "In Fourth Survey of Research in Education, ed. M.B. Buch, New Delhi: NCERT.
2. Kothari, C. R. (2006): "Research methodology: Methods & Techniques". New Age International (P) Limited, Publishers.
3. Carter V. Gooe and Douglas E. Scates: Methods of Research p.670.
4. Gellert J Garraghan: "A Guide to Historical Method" (New York: Fordhan University Press, 1946).
5. Glaser, Robert et al (1996): "Organization for Research and Development in Education". Bloomington, Ind: Phi Delta Kappa.
6. Grewal, J.S. and Gupta, I.D (1991) "Research in Elementary Education: A Trend Report" in Fourth Survey of Research in Education ed, M.B Buch, New Delhi: NCERT
7. Yadav, M.S., Koul, L., Roy, S.L. and Lakshmi, T.K.S (1989): "Research Policy in the Perspective of National Development" in Educational Research: Methodological Perspectives. Baroda: Center of Advanced Study in Education, M.S. University of Baroda.
8. Joshi, J.N and Sudhesh Gokhar (1987) "Guidance and Counseling: A Trend Report" in Third Survey of Research in Education ed M.B. Buch, New Delhi: NCERT



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9. Mukhopadhyay, M., Murthy, C. R. K., and Kandan, K. (1991): "Research in Educational Management: A Trend Report" in Fourth Survey of Research in Education ed M.B. Buch New Delhi: NCERT.
10. Neale, J.M and Liebert, R.M. (1973): Science and Behavior: An Introduction to Methods of Research Englewood Cliffs, N.J: Prentice – Hall.

#### **List of Statistics books:**

1. Statistics: Schaum's Outlines by Spiegel, Murray R & other, publisher McGraw Hill Education, New Delhi.
2. Introductory Probability and Statistical Applications by Meyer, Paul L, Publisher, Oxford & IBH co., New Delhi.
3. Using IBM® SPSS® Statistics by Aldrich, James O & Cunningham, James B. publisher, Sage publication, New Delhi.
4. Statistical Method by S P Gupta, publisher Sultan Chand & Sons, New Delhi.