

## **HS712: Research Methodology (3-0-0:3)**

### **Fundamentals of Research**

Meaning and Concepts of Research; Characteristics and Objectives of Research; Criteria of Good Research; Languages of Research; Types of Research; Psychological Tips; Motivation in Research; The Scholar and the Mentor; Institute Rules and Guidelines

### **Research Methods and Approaches**

Orientation to Basic Research Methods and Approaches; Research Methods; Research Approaches; Which Methods and Approaches to Choose? Current Trends in Research

### **The Research Process**

Review of Literature; Identifying the Research Problem; Research Hypotheses; Sampling and Data Analysis; Interpretation of Results and Claims

### **Measurement Scales and Evaluation**

Concepts of Measurement Scales; Primary Levels of Measurement; Classification of Measurement Scales; Validity and Reliability Analysis

### **Research Ethics and IPR**

Ethical Issues; Intellectual Property Rights; Patent Law; Commercialization; Copyright; Royalty; Trade-Related Aspects of Intellectual Property Rights (TRIPS)

### **Scholarly Writing**

Characteristics of Scholarly Writing; Standard Guidelines; Critical Reviews; Research Proposals; Research Reports; Thesis/Dissertations; Research Papers; Impact Factor of Journals; Citation and Acknowledgement; Plagiarism and Self-Plagiarism; Reproducibility and Accountability

### **Essential Readings:**

1. C. R. Kothari and G. Garg, "Research Methodology: Methods and Techniques", New Age International Publishers, 4<sup>th</sup> Multi-Colour Edition, 2019
2. P. J. Schloss and M. A. Smith, "Conducting Research", Prentice-Hall, 1999.
3. R. Kumar, "Research Methodology: A Step-by-step Guide for Beginners", Sage Publications, 4<sup>th</sup> Edition, 2014.

### **Supplementary Readings:**

1. D. Madsen, "Successful Dissertations and Theses", Jossey-Bass, 1<sup>st</sup> Edition, 1983.
2. D. Sternberg, "How to Complete and Survive a Doctoral Dissertation", St. Martin's Press, 1981.
3. G. B. Davis and C. A. Parker, "Writing the Doctoral Dissertation: A Systematic Approach", Barron's Educational Series, 3<sup>rd</sup> Edition, 2012.
4. J. D. Lester and J. D. Lester Jr., "Writing Research Papers: A Complete Guide", Longman, 15<sup>th</sup> Edition, 2014.
5. James E. Mauch and Namgi Park, "Guide to the Successful Thesis and Dissertation: A Handbook for Students and Faculty", Marcel Dekker, Inc, 2<sup>nd</sup> Edition, 1989.
6. K. L. Turabian, "A Manual for Writers of Term Papers, Thesis, and Dissertations", University of Chicago Press, 1973.
7. S. Gash, "Effective Literature Searching for Research", Gower, 2<sup>nd</sup> Revised Edition, 1989.
8. W. G. Bowen and N. L. Rudenstine, "In pursuit of the Ph.D.", Princeton University Press, 1992.