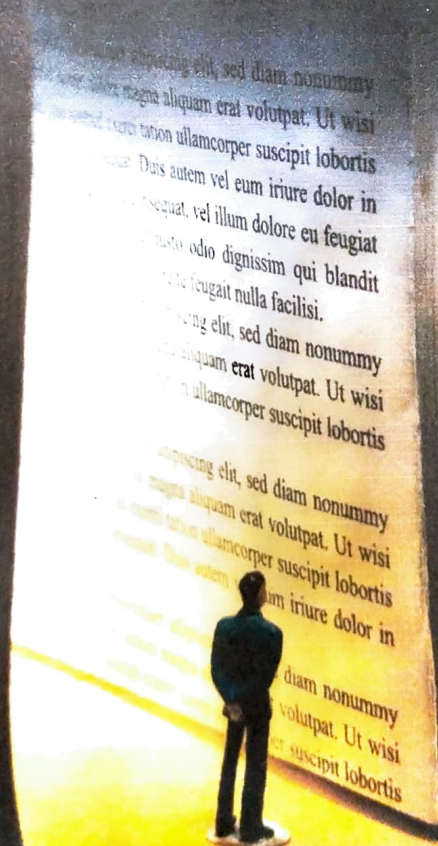


# METHODOLOGY OF EDUCATIONAL RESEARCH

DR. USHA S, SYED KHURRAM SHAHABUDDIN  
SATISH RAJARATHNAM, DR. V. GOKULANACHIYAR, AMAR VINOD CHAVAN



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# Introduction



1. Introduction

2. The first part of the course

3. The second part of the course

4. The third part of the course

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**Dr. Usha S**  
**Syed Khurram Shahabuddin**  
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*by: Dr. Usha S, Syed Khurram Shahabuddin, Satish Rajarathnam,  
Dr. V. Gokulanachiyar, Amar Vinod Chavan*

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# PREFACE

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Students in the social sciences, business, education, public health, and other relevant fields may find this book to be an excellent resource for learning about the steps involved in conducting scientific research. Our lecture materials that we generated over the course of a decade of teaching the subject on Research Methods provide the foundation for this book. Students, young researchers, and professors who offer courses on research techniques make up the primary audience for this book. However, older researchers may also utilize this book as a useful and compact reference source.

The first and most crucial question that prospective readers of this book should have is, "How is it different from other text books that are now available on the market?" To be clear, there are two primary distinctions.

To begin, in contrast to other textbooks, this one is not just about "research techniques" (empirical data collection and analysis), but also about the "research process" in its whole, from the very beginning to the very conclusion. The research technique is only one step in the whole research process, but perhaps the one that is least difficult and most regimented. The majority of textbooks provide an in-depth discussion of research methods, but they omit topics that are more difficult, less structured, and possibly more significant. These topics include theorizing and thinking like a researcher, both of which are frequently prerequisites for empirical research. In my experience, the majority of students are able to develop a reasonable level of research procedure competence, but they struggle to develop research topics that are engaging or relevant or to construct scientific ideas. In order to make up for this shortcoming, I have dedicated whole chapters to subjects like "Thinking Like a Researcher" and "Theories in Scientific Research," which are fundamental abilities for a young researcher.

Second, the book was written in a way that makes it concise and easy to carry. When we were writing the book, we made the decision

to concentrate exclusively on the most important ideas and avoid cluttering the pages with side topics or irrelevant information that would draw the attention of the readers away from the primary subject matter. The majority of classes consist of a substantial amount of assigned readings culled from the relevant academic field. Instead of burdening students with a lengthy text on top of their prescribed readings, this book is intended to supplement those readings by condensing all relevant themes in a single compact volume.

“Methodology of Educational Research” provides a practical introduction to the fascinating field of research in accessible, entertaining, and sometimes hilarious text. By providing readers with actual research examples (complete with annotations), the work encourages them to think of research as a living, breathing dialogue about issues that matter to them right now. Please let us know if there is any new or fascinating information that you would want to have included in future editions of this publication, and we will do all in my power to meet your requests. Any feedback, whether it be in the form of comments, critiques, or edits to the current material, will be warmly received.

***Authors***

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# SYLLABUS

UNIT NO.	UNIT TITLE
1	<b>INTRODUCTION TO EDUCATIONAL RESEARCH</b> <ul style="list-style-type: none"><li>• Nature and scope of Educational Research</li><li>• Meaning and Nature</li><li>• Need and Purpose of Scientific Inquiry</li><li>• Fundamental, Applied and Action Research</li></ul>
2	<b>FORMULATION AND IDENTIFICATION OF RESEARCH PROBLEM</b> <ul style="list-style-type: none"><li>• Formulation of research problem</li><li>• Criteria and Sources for Identifying the problem</li><li>• Delineating and Operational Variables</li><li>• Developing Assumptions and Hypothesis in various types of Research</li></ul>
3	<b>DATA COLLECTION AND SAMPLING</b> <ul style="list-style-type: none"><li>• Collection of Data</li><li>• Concept of population and Sample</li><li>• Various Methods of Sampling</li><li>• Characteristics of Good Sample</li></ul>
4	<b>TOOLS AND TECHNIQUES</b> <ul style="list-style-type: none"><li>• Tools and techniques</li><li>• Characteristics of a good research tool</li><li>• Types of Research Tools and Techniques and their uses</li><li>• Questionnaire-Interviews-Observation</li><li>• Tests and Scales – Projective and Sociometric Techniques</li></ul>

UNIT NO.	UNIT TITLE
5	<b>MAJOR APPROACHES TO RESEARCH</b>  Major approaches to research Descriptive Research Ex-Post Facto Research Experimental research Field Experiment Field Studies Historical Research

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## ABOUT THE AUTHORS



I'am Syed Khurram Shahabuddin a research scholar pursuing Ph. D. in education. I have completed M. Sc. Bioinformatics, B.Ed and M. A. Education from Jamia Millia Islamia University (JMI) and Maulana Azad National Urdu University (MANUU). Worked in various organisations like Rai University, Delhi Business School, J K Group of Institution, Takshila Business School, Perfect Relation Centre for Image Management and Al-Falah University. Attended various national and international seminars, conferences and workshops related to education. Looking forward to contribute in the education system.



Satish Rajarathnam, with over 24 years of experience, Satish Rajarathnam is a seasoned Human Resources professional who has held various HR leadership positions across multiple industries. Satish has continually been at the helm of strategic resourcing, organization change management, HR Business consulting & Agile transformation, as well as leadership and talent management. Satish is a research Scholar from Swiss School of Business Management, Geneva and has done his General Management from the Indian School of Business (ISB) and National University of Singapore (NUS).



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