

RESEARCH METHODOLOGY



methodology



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Preface

This **Research Methodology** book is an effort to provide a systematic and applicable understanding of the various approaches, methods, and techniques used in scientific research. This book still has many shortcomings in its preparation. Therefore, we really hope for criticism and suggestions for the improvement and perfection of this book in the future.

We would like to thank various parties who have helped in the process of completing this book. Hopefully this book can be a source of reference and literature that is easy to understand.

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Introduction to Research

CHAPTER 1 Methodology

(Dimas Ario Sumilih)

Research is one of the main pillars in the development of science and the resolution of empirical problems in life and society. In the context of higher education, the ability to conduct research is not only an indicator of students' scientific literacy, but also of national and international scientific publications, as well as the implementation of research-based community service. As stated by Creswell (2018), research is a systematic process consisting of logical steps to collect, analyze, and interpret data to answer questions or solve problems. Therefore, understanding research methods is an important foundation that every student across disciplines must have.

1.1 Introduction, Definition, and Nature

The word research in Indonesian comes from the root word *teliti*, which means careful, thorough, and cautious in observing or examining something. The prefix “pe-” and the suffix “-an” form the word “penelitian,” which means the process or activity of researching (investigating systematically). Research is often referred to by another word, namely “riset.” The word ‘riset’ in Indonesian comes from the English word “research,” which originates from the Old French word “rechercher,” meaning “to search closely” or “to investigate thoroughly.” The root of this word is “re-” (back) and “chercher” (to search), indicating a repeated and in-depth search.

Sugiyono (2018) defines research as a scientific method for obtaining data with specific objectives and purposes. Creswell (2018) states that “research is a process of steps used to collect and analyze