

# **Research Problem**

***Prepared by***

**Mr. Jyotish Bairaggya  
Assistant Professor of Geography  
Rani Dhanya Kumari College  
Jiaganj, Murshidabad, W.B.**

# Introduction

- ❑ The word “Research” derived from the Middle French word “Recherche” which means “to go about seeking”.
- ❑ Re+Search = Research, which means search again to find out something new.
- ❑ Research is a systematic investigation to gain knowledge about a new or established fact or to find possible reason and solution of an issue.

## What to do?

- Find again
- Examine again
- Search again
- Investigate again
- Look into again



Source: Jemini google search

# Research Problem

- ❑ There has few steps to complete a research journey. The first and foremost step of a research is to construct a research problem.
- ❑ Constructing research problem is like the identification of destination before starting a research journey.

## Definition

- A research Problem is a clearly defined issue, difficulty or gap in knowledge that a researcher aims to investigate.
- A research problem is a statement about an area of concern, a condition to be improved, a difficulty to be eliminated, or a troubling question that exists.

# Research Problem

A research problem is a specific issue, difficulty, contradiction, or gap in knowledge that a researcher aims to address through systematic investigation.



## Examples:

- Impact of Social Media on Adolescent Mental Health
- Climate Change and Agricultural Productivity
- Online Learning and Student Engagement
- Healthcare Access in Rural Areas
- Renewable Energy Adoption
- AI in Healthcare Diagnostics

**Ex** [Examples.com](https://www.Examples.com)

After selecting research problem, the researcher get the idea about **“Where does the researcher go from here?”**

## Why define the Research Problem?

- Defining your destination before beginning a journey.
- It determines,
  - what you will do,
  - will it withstand scientific scrutiny,
  - how you will do it, and
  - what you may achieve!

# Objectives

- ☐ To have knowledge about the steps of constructing a good research proposal.
- ☐ To identify the significances of formulating a research problem for a research.
- ☐ To fulfil the scheduled assignment for a Refresher Course given by UGC-MMTTC.

# Characteristics of Research Problem

A good research problem has the following characteristics:

## 1. Clarity and Specificity

- A clear problem statement avoids ambiguity and is easily understood.
- It's specific, addressing a particular aspect of a broader topic.

## 2. Focus and Scope

- A research problem should be focused, not too broad or too narrow.
- It should have an appropriate scope, allowing for in-depth investigation.

## 3. Researchability

- It should be possible to find data or methods to investigate and answer the research question.
- This includes considering available resources, time, and expertise.

## 4. Relevance and Significance:

- The problem should address a question or issue that matters to the field or community.
- It should have potential significance or importance, contributing to existing knowledge.

## 5. Feasibility

- It should be realistically study-able within the given time and resource constraints.
- This includes considering ethical guidelines and potential data accessibility.

## 6. Originality and Novelty

- A good research problem should offer something new or different to the existing body of knowledge.
- It can also build upon existing work or lead to new research trajectories.

## 7. Theoretical Grounding

- The problem should be grounded in relevant theory and literature.
- It should be based on a logical rationale and connect to existing theories.



Source: Jemini Google search

# Major Steps for Selecting a Research Problem

Selecting a research problem is a crucial step in any research endeavour. It sets the foundation for your entire study. **These are the major steps commonly involved:**

- **Identify a Broad Area of Interest**
- **Dissect the Broad Area into Sub-areas**
- **Identify Your Specific Interest within Sub-areas**
- **Conduct a Preliminary Literature Review**
- **Formulate Study Potential Research Gap/Questions**
- **Assess Feasibility and Test Researchability**
- **Set clear objectives**
- **Double-check your work**
- **Define and Refine the Research Problem (Problem Statement)**



# **Significance of Research Problem**

A clear research problem is arguably the most crucial element in initiating and successfully completing any research endeavour.

- **Provides Direction and Focus**
- **Justifies the Research**
- **Shapes Research Questions and Hypotheses**
- **Enhances Literature Review**
- **Contributes to Knowledge**
- **Facilitates Data Collection and Analysis**
- **Aids in Interpretation of Findings**
- **Attracts Interest and Funding**
- **Improves Overall Quality**
- **Ensures Relevance and Contribution**
- **Enhances Credibility and Validity**
- **Motivates the Researcher**

# References

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<https://openai.com/index/chatgpt/>

**Thank You**