



Research Methods

Course Instructor: Tumaini L. Edgar

Office: ICT Office 2

Contact: +255-653313908,



RESEARCH OBJECTIVES



What is a Research Objective?

- ❑ A **research objective** is a clear, specific statement detailing what a researcher intends to accomplish through their study.
- ❑ It defines the purpose and focus of the research, outlining the goals that the researcher seeks to achieve by conducting the investigation.
- ❑ Objective can be divided into two
 - **Main objective**
 - **Specific objectives**



What is a Research Objective?

- ❑ **General objective-** means stating what you expect to achieve in general terms. Your general objective should align with your problem
- ❑ **Specific objectives-** breaking down the general objective into smaller, logically connected parts that systematically address the various aspects of the research problem
 - ❑ **Your specific objectives should specify exactly what you will do in each phase of your study, how, where, when, and for what purpose.**



Research Objective

A well-structured objective should be **SMART**

S- Specific- Should be focused on one goal, not too broad

M-Measurable- Can be tracked to see progress

A-Attainable- Realistic, meaning it can be accomplished with available resources

R-Realistic- Ensure that the objective is relevant and has practical significance

T-Time-bound- Has a deadline or timeframe to reach the goal



Research Objective

Example of a main objective

The main objective of this study is to develop an advanced algorithm to predict student dropout rates.

Example of Specific objective

- i. To identify key factors influencing student dropout
- ii. To develop a predictive algorithm using the identified factors
- iii. To evaluate the algorithm's performance of the developed algorithm



Research Questions

- Usually derived from specific objectives
- Hence, the number of research questions should be proportional to the number of specific objectives
- Example: Three research questions for three specific objectives



Research Questions

SNO	Specific objectives	Corresponding research questions
i.	To identify key factors influencing student dropout	What are the key factors influencing student dropout?
ii.	To develop a predictive algorithm using the identified factors	How can a predictive algorithm be developed using the identified factors?
iii.	To evaluate algorithm's performance of the developed algorithm	What is the performance of the proposed algorithm?



Assignment

- ❑ Formulate a research problem based on any IT/software/computer issue of your choice, including its main and specific objectives, as well as relevant research questions. Your problem statement should be approximately one-quarter (25%) of a page long.

THANK YOU

