

# Guideline for Thesis Preparation and Documentation

Ashim Khadka

# Outline

1 Thesis Writing

2 Research Proposal

# Thesis Writing

# Why write a Thesis?

- Science aims to find pattern, trends, and structure in the experiment
- Good scientific writing aims to bring forward in the text
  - Structure
  - Organization of knowledge

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  - What you did to solve the problems

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Subject or Title	Set out the broad topic you would like to research
↓	
Aims and Objectives	What research would set out to achieve
↓	
Methodology	How you would go about researching it
↓	
Expected outcomes	What the results might be in relation to knowledge and understanding in the subject
↓	
Outline plan	How you would undertake it within the time available

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    - **Approach is novel and likely to give results**

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**"An early identification of Arrhythmia by machine learning using wearable Electrocardiogram monitoring system"**

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- Did you **explain terms** to **avoid readers' confusion?**
- Introduction may include a few sections

# Introduction of Research Proposal

Introduction should include four basic components

- 1 Meaningful presentation of the study
- 2 Background of the study
- 3 Statement of the main issue of the study

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  - make summary of literature reviewed including knowledge gap

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- Is the **background** **clear enough?**
- Is the **literature review** **well organized and enough?**

## ***Key questions to ask yourself: Have I***

- identified the specific research problem I wish to investigate?
- indicated what I intend to do about this problem?
- put forth an argument as to why this problem is worthy of investigation?
- made my assumption explicit?

# Thesis: Research Questions/Problem Statements

- **Concise statement:** problems you want to address
- **Justified problem:** unanswered/not well solved based on the previous literature review
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- Did you refer to some **literature references** to **convince your points?**

# Objectives of the Study

- Objectives should be clearly stated and specific in nature
- Avoid words “to determine”, “to find out”
- Objectives should be attainable, measurable, achievable and testable

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- How the study is important?
- For whom the study is important?

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  - How the **combination of data and methods** will allow you to address your research problem

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- This will allow examiner to further assess the significance and validity of your research proposal

- Timeline demonstrates to the examiner that your research can be completed within the period
- Timeline should consist of a series of goals that you will need to meet in order to complete all aspects of your thesis
  - from initial research to the final editing
  - with an expected date of completion for each step