



FAKULTI TEKNOLOGI DAN SAINS MAKLUMAT

## GUIDELINES FOR PROPOSAL PREPARATION

### 1. FRONT PAGE:

THESIS TITLE

NAME

MATRIC

SEMESTER OF STUDY

SUPERVISORS

DATE

### 2. EXECUTIVE SUMMARY

(Please include the problem statement, objectives, research methodology, expected output/outcomes/implication, and significance of output from the research project)

*Not more than 300 words.*

### 3. INTRODUCTION

#### 3.1 Research Background

Should contain a rationale and motivation for your research which answer:

- Why are you undertaking the project?
- Why is the research needed?

The rationale should be placed within the context of existing research.

#### 3.2 Problem Statement

A problem statement should focus on answering these questions:

- What is/are the research issue(s) that you will address in the thesis?

- What has been done to address these issues? Discuss and show the research gap.
- How does your work differ and similar from other related works?
- What is new about your work?
- Which work do you follow/motivate you?
- Why do you choose the method/technique/framework/etc.?

Demonstrate that you:

- Know what you're talking about and
- Have knowledge of the related literature.
- Must support with the literature.

*Basically, you have to convince people that you know what you're talking about and that the research is important.*

### 3.2.1 Research Questions

What do you want to prove in this work? Relate with the research issues.

### 3.2.2 Research Hypothesis

What do you want to prove/test?

State your independent and dependent variables.

## 3.3 Research Aim and Objectives

The aim is the overall driving force of the research and the objectives are the means by which you intend to achieve the aims. These must be clear and concise. Relate with the research issues and research questions. Use SMART criteria to state your objectives.

## 3.4 Research Scope

What is your focus, datasets, etc.

## 3.5 Potential Contribution

One or two paragraphs explaining what is/are the expected contributions of your work related to the research issue that you have addressed?

## 4. LITERATURE REVIEW (about 100 references)

Must be based on the theoretical framework.

Must include a reasonable number of up-to-date references (within 5 years back).

Leads into the problem you wish to tackle in your proposed work (i.e. to support your research gaps/contributions) and should answer the following questions:

- What others have done before within this context?
- What is being done now?
- What problems have been identified?
- What has not been worked on?
- How your own work builds / adds onto this?

## **5. RESEARCH METHODOLOGY**

Need to clearly identify the proposed methodology and method for each objective and justify their use. To do this, you need to answer:

- Why have you decided upon your methodology?
- Why have you decided to use those particular methods?
- Why are other methods not appropriate?

## **6. GANTT CHART**

Details research activities, milestones, and publication plan.

## **7. DISSEMINATION**

What do you expect to do with the result of your research (e.g. journal papers, proceedings, copyrights, etc.?)

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*\*\*\*Number of pages between 20 - 50 pages\*\*\**

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