How to Write Thesis

FOR FINAL YEAR PROJECT 1

21 SEPTEMBER 2018
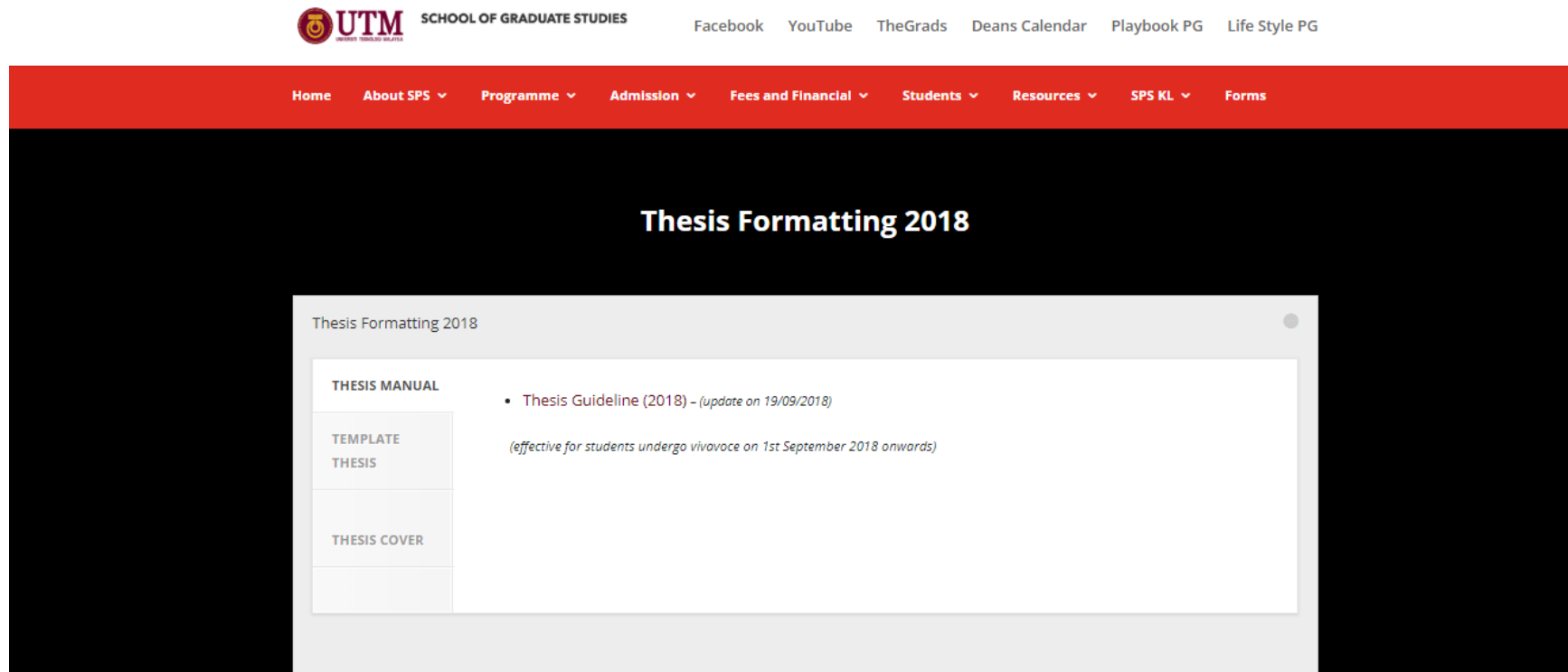
Expected Outcome

Item / Chapter	Details
Title	Follow guideline (refer UTM Thesis Format 2018)
Table of Content	Follow guideline (refer UTM Thesis Format 2018)
Chapter 1 – Introduction	Background, Problem Statement, Objectives, Scope, Significance of the Study, Thesis Organization
Chapter 2 – Literature Review	
Chapter 3 - Methodology	Flow chart, Describe the methods in detail
Chapter 4 – Expected Result	Anticipated Result
Chapter 5 - Conclusion	
References	Follow guideline (refer UTM Thesis Format 2018)
Appendix	Not compulsory

Expected Outcome

- You should write your report / proposal using future tense

- But remember to change to past tense for FYP 2

UTM Thesis Formatting 2018

http://sps.utm.my/thesis-formatting-2018/

For Thesis Template, please remove any non-related FYP 1 report / proposal requirement

Chapter 1 - Introduction

A good 'Introduction' comprises the following sections:

- ✓ Research background
- ✓ Problem statement
- ✓ Objective(s)
- ✓ Scope of research
- ✓ Significance of the Study
- ✓ Thesis organization

What?
Why?
How?

Chapter 1 – Introduction (Research Background)

1. Start by describing the background of the problem being investigated

2. Explain the problem being solved and the limitation of existing methods

3. Describe the method you will be using to solve your problem and highlight any closely related work done by other researchers

4. State briefly how your method works

Chapter 1 – Introduction(Problem Statement)

Statement that clearly spells out the gap in knowledge, i.e. a yet unsolved problem

Chapter 1 – Introduction (Good Objectives)

❖Objectives should lead to measurable outcome

❖**Examples of good objectives:**

✓ 1. To develop a new technique using laser speckle effect for measuring surface roughness.

✓ 2. To study the effect of morphological operation on the error in roughness values

Chapter 1 – Introduction (Bad Objectives)

1. To understand the effect of lubricant viscosity on the wear rate

2. To develop a C-code

3. To study the effect of fiber content

4. To fabricate a lens holder

5. To apply Monte Carlo method in optimization

Chapter 1 – Scope of Research

The scope of research is a general outline of what the study will cover, e.g

❑Parameters

❑Equipments

❑Location etc

Chapter 2 - Literature Review

- The objective of literature review is to prove that what you are going to do in your work has not been done before

- Search the databases for related work discuss with your supervisor

- Review at least the past **10 year's work**

- Provide a critical review of the existing methods instead of just reporting what others have done

- You may use figures taken from elsewhere in your literature review, but **cite** them properly, e.g.

Chapter 3 - Methodology

- Explain how you carried out your research

- Use **flowcharts** to explain step-by-step the process

- Include photographs as well as schematic diagram of the experimental setup

- Sub-divide into sections explaining different aspects, e.g. material preparation, experimental setup, algorithms etc

References

Reference style – Harvard / Numbering

Reference from Internet

Although internet provides a large source of references, the information from internet are not permanent and are up-dated periodically. Thus these are unreliable sources of reference. Internet should only be used to retrieve primary sources of reference.

Citation / Reference

Depends on:

- Single author

- Two authors

- More than two authors

- same author in a same year are cited, use small letter alphabets (a, b, c, and so on) to distinguish them.

Cross referencing in not allowed in a thesis. Only primary sources should be used.