



# **THESIS GUIDELINES**

*HoChiMinh City, 19 December, 2018*



## Chapter I. INTRODUCTION

1. **Background:** Why to study this topic ?
2. **Problem Statement – The Need of Study:**
  - Identify the problem or the gap needed to fill in the case.
  - What need to solve or achieve?
3. **Objectives of Study:**
  - Who will be benefit to have the results of this study?
  - What are expected outputs and/or application? What are expected scientific contributions, if any ?
  - Design requirements.
4. **Scope and Limitations:**
  - Assumptions, if any.
  - Specify some practical constraints

## Chapter II. RELATED WORKS

1. **Overview:**
  - Theoretical foundations.
  - Or Introduction to the case, studied company.
2. **Literature Review:**
  - Investigate current development approaches in literature related to the study
  - Summarize and classify the existing approaches.
3. **Design Concepts Consideration**
  - Detailed description of potential approaches to be considered

## Chapter III. METHODOLOGY

1. **Approaches Comparison and Selection:**
  - Summarize advantages and disadvantages of the considered approaches
  - Conduct qualitative and/or quantitative comparison to select the final approach
2. **(Conceptual) Design Description:**
  - From the selected approach, develop conceptual design structure of the proposed system.
  - Analyze and justify the techniques to be used.



## Chapter IV. MODELLING

### 1. Model or Prototype Development:

- Identify parameters, components of the system and related assumptions & constraints,
- Construction phase: formulate a Model or a Prototype for the system

### 2. Solution Development:

- Implementation
- Investigate all possible solutions and develop an improvement solutions
- Compare alternative solutions subject to feasibility constraints (economic factors, environmental and social) and the appropriate standards: ISO, OSHA, ANSI, HACPP, TCVN . . .

## Chapter V. RESULT ANALYSIS

### 1. Results:

- Describe the obtained results of the model or prototype's solution

### 2. Analysis:

- Conduct validation (experiments, measure of prototype outputs,...) and analyze the efficiency of the obtained results/ prototype/design/ model/solution.
- Analyze and evaluate the environmental, social and economic impacts
- Recommended final design solution

## Chapter VI. CONCLUSIONS

1. Summary of results: contributions, benefits
2. Recommendations for future research.

## References

<https://webstore.ansi.org/industry/manufacturing-production>

<https://www.osha.gov/>

## Appendices



## Assessment Scheme

Assessment types	Assessment component	Percentage %
A1.Proposal Assessment	A1.1. Report	>50%
	A1.2 Presentation	>50%
A2.Midterm assessment	A2.1 Midterm Report	>50%
A3. Final assessment	A3.1 Advisor Evaluation	20%
	A3.2 Reviewer Evaluation	20%
	A3.3 Committee Evaluation	60%

## REGULATIONS

- 1. No cheating**
- 2. Workload: cover all chapters**
- 3. Attendance:**
  - **Before Midway**
  - **After Midway**