

UNIVERSITY OF BUEA

FACULTY OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF COMPUTER ENGINEERING

**GUIDELINES FOR WRITING FINAL YEAR PROJECT DISSERTATION**

During their final year of the Bachelor cycle, students of the Faculty of Engineering and Technology are required to realize their final year projects. This project is accompanied by a dissertation.

This document has been designed to guide students of the Department of Computer Engineering on writing their final year project dissertations. All students are required to strictly respect these guidelines and format prescribed for their dissertations.

**I. General Specifications**

<b>Paper size</b>	A4 size paper
<b>Font type</b>	Times New Roman
<b>Font size</b>	Chapters: 16 Titles under chapters: 14 Paragraphs (body): 12
<b>Margin</b>	Use 2.5cm for left and right margins, 2cm for top and bottom margins
<b>Spacing</b>	1.5 line spacing should be used for the body
<b>Language</b>	Use Standard Formal level of English only
<b>Page Limit</b>	45 to 65 including the preliminary pages
<b>Alignment</b>	Justified
<b>Page Numbering</b>	All pages should be numbered. Preliminary pages should be given Roman numbers (i, ii, iii, etc) while the others have numerical numbers, starting with 1 from the first page of chapter 1.
<b>Paragraphs and Sections</b>	Insert a line break before and after every section and subsection. Paragraphs should be justified and separated by a blank line.
<b>Heading and Subheadings</b>	Headings and subheadings should be numbered and well formatted
<b>Punctuations, Spelling and Grammar Check</b>	Use correct punctuation marks. Spelling and grammar should be accurate
<b>Cover page color</b>	Blue
<b>Binding</b>	Use spiral binding, protected by a sheet of transparent paper, and ends with a blank card board paper.
<b>Headers and Footers</b>	Additional information such as headers or footers are prohibited

**NB:** Make sure the numbering of headings and subheadings do not exceed the second subheading as shown in the following sample:

Heading: 1.

First subheading: 1.1

Second Subheading: 1.1.1

A hard and soft copy should be submitted to the department of Computer Engineering.

## **II. Format and Contents of the dissertation**

The dissertation should have the following format which comprises some preliminary pages (Title page, Dedication, Acknowledgement, Abstract, Table of Contents, List of figures, List of tables and List of abbreviations) as well as some chapters/sections.

**Title page**

**Certification of originality**

**Dedication**

**Acknowledgement**

**Abstract**

**Table of Contents**

**List of Tables**

**List of Figures**

**List of Abbreviations**

**CHAPTER 1. GENERAL INTRODUCTION**

**CHAPTER 2. LITERATURE REVIEW**

**CHAPTER 3. ANALYSIS AND DESIGN**

**CHAPTER 4. IMPLEMENTATION (or REALIZATION) AND RESULTS**

**CHAPTER 5. CONCLUSION AND FURTHER WORKS**

**References**

**Appendices**

## **III. Detailed content**

Details of some elements in the structure of dissertation are as follow:

### **Title Page**

Contains title (including subtitle) of the project, name of the University and Faculty, with UB logo, student's name and registration number or matricule, academic supervisor(s), his grade and institution

### **Certification of originality**

This section contains certification that the work was effectively carried out by student

and can therefore be presented/defended. It is signed by the student, supervisor and Head of Department.

### **Dedication**

This section contains person or group of persons (maximum 03) in whose honour the dissertation is written. (This is optional and can be left out)

### **Acknowledgement**

In this section you acknowledge the assistance and support of the people who helped you in the completion of your studies, internship and final year project.

### **Abstract**

In this section you give a summary of your work by briefly situating the context and background of the work, the problem which it solves, the methodology used to solve it and your major results. It answers questions such as: What? Why? How? It also explains the major implications of the work. A good abstract is concise, readable, and quantitative. Its length should be approximately 400 words (in 1 or 2 paragraphs). This section ends by citing keywords related to your topic.

### **Table of Contents**

Should contain list all chapters, headings and subheadings with page numbers, indent subheadings.

### **List of Tables**

List page numbers of all tables. The list should include a short title for each table but not the whole caption

### **List of Figures**

List page numbers of all figures. The list should include a short title for each figure but not the whole caption

### **List of Abbreviations**

List and give significations of all abbreviations used in your dissertation. List them in alphabetical order.

## **CHAPTER 1. GENERAL INTRODUCTION**

This chapter introduces your work by presenting its background and context of study, the problem which you want to solve, the objectives, a brief methodology of how you intend to solve the problem, etc...

Its structure is given below

### **CHAPTER ONE: GENERAL INTRODUCTION (15-20 pages)**

1. Background and Context of the Study
2. Problem statement
3. Objectives of the Study
  - 3.1. General Objective
  - 3.2. Specific Objectives
4. Proposed Methodology
5. Research Questions (if applicable)
6. Research Hypothesis (if applicable)

7. Significance of the Study
8. Scope of the Study
9. Delimitation of the Study
10. Definition of Keywords and Terms
11. Organization of the Dissertation

## **CHAPTER 2. LITERATURE REVIEW**

In this chapter, you will review and present major findings by other authors in the literature as regards to your topic. For that, you need to search books, articles, dissertations, web pages and every other written and published material related to your research topic, read them and bring out their results, contributions and limitations of each. You could start this chapter by presenting some key concepts related to your topic which you judge are necessary for the comprehension and understanding of a reader.

Below is the minimal structure of this chapter. You shall add and complete it according to your various topics.

### **CHAPTER TWO: LITERATURE REVIEW (15-25 pages)**

1. Introduction
2. General Concepts on xxxxxx
3. Related Works
4. Partial Conclusion

## **CHAPTER 3. ANALYSIS AND DESIGN**

This chapter presents the personal work of the student as regard to the research topic. After analysis, you will define an appropriate methodology for the resolution of the problem. The work done in chapter 2 can also help for that. You will also describe the various stages of the design of your solution then describe in details each phase in the resolution process.

Below is the structure for this chapter:

### **CHAPTER THREE: ANALYSIS AND DESIGN (15-20 pages)**

1. Introduction
2. Methodology
3. Design
4. Global Architecture of the solution
5. Description of the algorithms
6. Description of the resolution process
7. Partial conclusion

## **CHAPTER 4. IMPLEMENTATION (or REALIZATION) AND RESULTS**

Present your results obtained after the realization via screenshots and adequate explanations for each result. Explain how to deploy and run or execute the solution you have realized. Finally evaluate your solution either by simulation or comparison with existing ones, to show that it satisfies your expectations (objectives of the study stated in chapter 1) and that it represents a significant contribution to engineering and technology.

### **CHAPTER FOUR: IMPLEMENTATION (or REALIZATION) AND RESULTS (15-**

20 pages)

1. Introduction
2. Tools and Materials used
3. Description of the implementation process
4. Presentation and interpretation of results
5. Evaluation of the solution
6. Partial conclusion

## **CHAPTER 5. CONCLUSION AND FURTHER WORKS**

Make a brief appraisal of your project, highlighting the key challenges and recommendations. Bring out in a clear and precise manner your contribution to engineering and technology through the realization of this project. Your contribution has to be marked-down from that of the existing solutions (within your research topic). You are required to suggest points for future works in order to improve on what you done so far in the project.

### **CHAPTER FIVE: CONCLUSION AND FURTHER WORKS (3-10 pages)**

1. Summary of findings
2. Contribution to engineering and technology
3. Recommendations
4. Difficulties encountered
5. Further works

## **References**

Cite all ideas, concepts, text, data that are not your own. If you make a statement, back it up with your own data or a reference. All references cited in the text must be listed. Use the APA reference style here.

## **Appendices**

Include copies of any important documents, piece of code, diagrams, etc

## **IV. Sample pages**

Below are some sample pages which you will have to scrupulously respect. You will only have to personalize it with your topic, personal information and that of the supervisor where applicable.

Cover page

Title page

Certification of originality

UNIVERSITY OF BUEA



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**FACULTY OF ENGINEERING AND TECHNOLOGY**

**DEPARTMENT OF COMPUTER ENGINEERING**

**PROJECT TITLE**

*A dissertation submitted to the Department of Computer Engineering, Faculty of Engineering and Technology, University of Buea, in Partial Fulfilment of the Requirements for the Award of Bachelor of Engineering (B.Eng.) Degree in Computer Engineering.*

**By:**

YCHE KELONGO Kaxwel

Matriculation Number: FE23A314

**Option:** Software Engineering / Network Engineering

**Supervisor:**

Prof/Dr/Mr/Mrs DHYITUS Melvis

University of Buea

**2023/2024 Academic Year**

(Title page)

**<<Project Title>>**

**<<Author Name>>**

**Matriculation Number: FE23A314**

**2023/2024 Academic Year**

*Dissertation submitted in partial fulfilment of the Requirements for the award of  
Bachelor of Engineering (B.Eng.) Degree in Computer Engineering.*

**Department of Computer Engineering  
Faculty of Engineering and Technology  
University of Buea**

## **Certification of Originality**

We the undersigned, hereby certify that this dissertation entitled “**PUT YOUR PROJECT TOPIC HERE**” presented by **YCHE KELONGO Kaxwel**, **Matriculation number FE23A314** has been carried out by him/her in the Department of Computer Engineering, Faculty of Engineering and Technology, University of Buea under the supervision of **Prof/Dr/Mr/Mrs DHYTUS Melvis**.

This dissertation is authentic and represents the fruits of his/her own research and efforts.

Date\_\_\_\_\_

**Student**

**Supervisor**

\_\_\_\_\_

\_\_\_\_\_

**Head of Department**

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