

1 THIS IS THE TITLE OF YOUR SPECIAL PROBLEM

2 A Special Problem

3 Presented to

4 the Faculty of the Division of Physical Sciences and Mathematics

5 College of Arts and Sciences

6 University of the Philippines Visayas

7 Miag-ao, Iloilo

8 In Partial Fulfillment

9 of the Requirements for the Degree of

10 Bachelor of Science in Computer Science by

11 LASTNAMEA, FirstName1

12 LASTNAMEB, FirstName2

13 LASTNAMEZ, FirstName3

14 Francis DIMZON, Ph.D.

15 Adviser

16 February 13, 2026

Approval Sheet

The Division of Physical Sciences and Mathematics, College of Arts and
Sciences, University of the Philippines Visayas

certifies that this is the approved version of the following special problem:

THIS IS THE TITLE OF YOUR SPECIAL PROBLEM

Approved by:**Name****Signature****Date**

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24 Division of Physical Sciences and Mathematics

25 College of Arts and Sciences

26 University of the Philippines Visayas

27 **Declaration**

28 We, [NAMES here], hereby certify that this Special Problem has been written
29 by us and is the record of work carried out by us. Any significant borrowings have
30 been properly acknowledged and referred.

Name

Signature

Date

Student Name 1

(Student)

31 Student Name 2

(Student)

Student Name 3

(Student)

Dedication

“Hello, world.”

Acknowledgment

“Hello, world.”

Abstract

37 From 150 to 200 words of short, direct and complete sentences, the abstract should
38 be informative enough to serve as a substitute for reading the entire SP document
39 itself. It states the rationale and the objectives of the research. In the final Special
40 Problem document (i.e., the document you'll submit for your final defense), the
41 abstract should also contain a description of your research results, findings, and
42 contribution(s).

43 Suggested keywords based on ACM Computing Classification system can be found
44 at https://dl.acm.org/ccs/ccs_flat.cfm

45 **Keywords:** Keyword 1, keyword 2, keyword 3, keyword 4, etc.

46

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66 List of Figures

<small>67</small>	1.1	This is the figure's caption – Disney stock chart. Captions should	
<small>68</small>		fully describe the figure in a concise manner such that there is no	
<small>69</small>		need to refer to the text when figuring out the graphic.	2

70 List of Tables

Chapter 1

Introduction

1.1 Overview of the Current State of Technology

This section gives the reader an overview of the specific technology or field in the international or local setting. The information regarding the technology or field should be contemporary and not based on outdated sources. Discussion must not be too technical or too detailed.

This section ends with a discussion on the problem/s faced by or that still exist in the specific technology or field (e.g., limitations of existing software or algorithms). The problem statement would lead to the research objectives.

It is easy to include a figure in JPG or PNG format as shown in the following example. Make sure that you explain what the figure is all about, and that you refer to your figure. Figures and Tables should appear after they were referred to in the text. For example, Figure 1.1 shows a graph of the performance of Disney



Figure 1.1: This is the figure’s caption – Disney stock chart. Captions should fully describe the figure in a concise manner such that there is no need to refer to the text when figuring out the graphic.

85 stock from the 1980s to 2012.

86 Some notes on citing references. When using APA format, the author-date method
 87 of citation is followed. This means that the author’s last name and the year of
 88 publication for the source should appear in the text, and a complete reference
 89 should appear in the reference list.

90 Here are some examples on how to do the referencing (note author’s name and
 91 years are different from commented examples). For APA citation details, refer to
 92 <http://www.ctan.org/tex-archive/biblio/bibtex/contrib/apacite/>.

93 • ? (?) compared reaction times...

94 • In a recent study of reaction times (?, ?)...

95 • In ?, ? compared reaction times...

96 • ? (?) compared reaction times...

97 • In a recent study of reaction times (?, ?)...

98 • In ?, ?, compared reaction times...

99 The following are references from journal articles (?, ?, ?, ?). Here's an MS thesis
100 document (?, ?), and this is from PhD dissertation (?, ?). For a book, reference
101 is given as (?, ?). Proceedings from a conference samples are (?, ?, ?, ?). The
102 sample bibliography file named **myreferences.bib** is from the SIGGRAPH L^AT_EX
103 template. You can use a text editor to view the contents of the bib file. It is your
104 task to create your own bibliography file. For those who downloaded papers from
105 ACM or IEEE sites, there is a BibTeX link that you can click; thereafter, you just
106 simply need to copy and paste the BibTeX entry into your own bibliography file.

107 The following shows how to include a program source code (or algorithm). The
108 verbatim environment, as the name suggests, outputs text (including white spaces)
109 as is...

```
110           #include <stdio.h>
111           main()
112           {
113                 printf("Hello world!\n");
114           }
```

1.2 Problem Statement

DO NOT FORGET to write the statement of the research problem here, i.e., before the Research Objectives.

A problem statement is your research problem written explicitly. The problem statement should do four things:

1. Specify and describe the problem (with appropriate citations)
2. Provide evidence of the problem's existence
3. Explain the consequences of NOT solving the problem
4. Identify what is not known about the problem that should be known.

1.3 Research Objectives

1.3.1 General Objective

This subsection states the over-all goal that must be achieved to answer the problem. Address the following: Given your research challenge or opportunity, how do you intend to solve it? What is the output of your research?

1.3.2 Specific Objectives

This subsection is an elaboration of the general objective. It states the specific steps that must be undertaken to accomplish the general objective. These objec-

132 tives must be **S**pecific, **M**easurable, **A**ttainable, **R**ealistic, **T**ime-bounded. A spe-
133 cific objective start with “to <verb>” for example: to design/survey/review/analyze.

134 Studying a particular programming language or development tool (e.g., to study
135 Windows/Object-Oriented/Graphics/C++ programming) to accomplish the gen-
136 eral objective is inherent in all thesis and, therefore, must not be included here.

- 137 1. To review related literature, compare and contrast existing algorithms (on
138 what problem?);
- 139 2. To develop a new algorithm (for what purpose?)
- 140 3. To analyze the algorithm (based on what criteria?)

141 1.4 Scope and Limitations of the Research

142 This section discusses the boundaries (with respect to the objectives) of the re-
143 search and the constraints within which the research was developed.

144 1.5 Significance of the Research

145 This section explains why research was done in this area. It rationalizes the ob-
146 jective of the research with that of the stated problem. Avoid including sentences
147 such as “This research is beneficial to the proponent/department/college” as this
148 is already an inherent requirement of all BSCS majors. Focus on the research’s
149 contribution to the Computer Science field.

150 The following are guide questions that may help your formulate the significance
151 of your research.

- 152 • What is the relevance of your work to the computer science community?
 - 153 – What are your technical contributions, in terms of algorithms, or ap-
154 proaches, or new domain?
 - 155 – What is your value-added compared to existing systems?
- 156 • What are your contributions to society in general?
 - 157 – Who benefits from your system?
 - 158 – Who are your target users and how this system benefit them?

Chapter 2

Review of Related Literature

This chapter discusses the features, capabilities, and limitations of existing research, algorithms, or software that are related/similar to the Special Problem.

The reviewed works and software must be arranged either in chronological order, or by area (from general to specific). Observe a consistent format when presenting each of the reviewed works. This must be selected in consultation with the adviser.

DO NOT FORGET to cite your references.

A literature review must do these things:

- be organized around and related directly to the thesis or research question you are developing
- synthesize results into a summary of what is and is not known
- identify areas of controversy in the literature

- formulate questions that need further research

A literature review is a piece of discursive prose, not a list describing or summarizing one piece of literature after another. It's usually a bad sign to see every paragraph beginning with the name of a researcher. Instead, organize the literature review into sections that present themes or identify trends, including relevant theory. You are not trying to list all the materials published, but to synthesize and evaluate them according to the guiding concept of your thesis or research question. You should also state the limits or gaps of their researches wherein you will try to fill these gaps in accordance to your research problem and objectives.

2.1 Theme 1 Title

This chapter contains a review of research papers that:

- Describes work on a research area that is similar or relevant to yours
- Describes work on a domain that is similar or relevant to yours
- Uses an algorithm that may be useful to your work
- Uses a software / tool that may be useful to your work

It also contains a review of software systems that:

- Belongs to a research area similar to yours
- Addresses a need or domain similar to yours
- Is your predecessor

191 **2.2 Theme 2 Title**

192 **2.3 Chapter Summary**

193 Should include a table of related studies comparing them based on several criteria.

194 Highlight research gaps and the research problem.

Chapter 3

Research Methodology

This chapter lists and discusses the specific steps and activities that were performed to accomplish the project. The discussion covers the activities from pre-proposal to Final SP Writing.

3.1 Research Activities

Research activities include inquiry, survey, research, brainstorming, canvassing, consultation, review, interview, observe, experiment, design, test, document, etc. Be sure that for each method, process, or algorithm used, there is a justification why that method was chosen. The methodology also includes the following information:

- who is responsible for the task
- the resource person to be contacted

- 208 • what were done
- 209 • when and how long the activity was done
- 210 • where it was done
- 211 • why should the activity was done

212 **Chapter 4**

213 **Results and Discussions**

214 This chapter presents the results or the system of your SP. Include screenshots,
215 tables, or graphs and provide the discussion of results.

216 **Chapter 5**

217 **Conclusion**

218 This chapter summarizes your SP and provides conclusions regarding your results
219 and analyses. Provide recommendations on what ought to be done with your SP
220 or provide further directions on the topic you covered.

²²¹ Chapter 6

²²² References

²²³ **Appendix A**

²²⁴ **Code Snippets**

225 **Appendix B**

226 **Resource Persons**

227 **Dr. Firstname1 Lastname1**

228 Role1

229 Affiliation1

230 emailaddr@domain.com

231 **Mr. Firstname2 Lastname2**

232 Role2

233 Affiliation2

234 emailaddr2@domain.com

235 **Ms. Firstname3 Lastname3**

236 Role3

237 Affiliation3

238 emailaddr3@domain.net

239