

FINAL PROPOSAL TEMPLATE

- 1) Please download this file to edit this template.
- 2) This template serves as a guideline to the students in writing the final proposal for DEE40082 Project 1.
- 3) Students are required to remove the explanation text in each section and replace it with their own writing.
- 4) The sub-topic in each chapter in this template can be edited, removed or added if required.
- 5) Students need to ensure that all writing in this template is adjusted according to their own information.
- 6) This template may also be used in Final Report writing (for Project 2) with addition of Chapter 4 Result and Analysis & Chapter 5 Conclusion and Recommendation.

*Please remove this page for final submission

POLITEKNIK SULTAN IDRIS SHAH

**ENTER YOUR PROJECT TITLE UP TO 3 LINES
FONT 18 TIMES NEW ROMAN, SINGLE
SPACING**

**STUDENT'S NAME
(STUDENT'S ID)**

JABATAN KEJURUTERAAN ELEKTRIK

SESI II 2024/2025

POLITEKNIK SULTAN IDRIS SHAH

**ENTER YOUR PROJECT TITLE UP TO 3 LINES
FONT 18 TIMES NEW ROMAN, SINGLE
SPACING**

STUDENT'S NAME

(STUDENT'S ID)

**This report is submitted to Jabatan Kejuruteraan Elektrik in partial
fulfillment of the requirements for the Diploma in Electronic
Engineering (xxxxxx)**

JABATAN KEJURUTERAAN ELEKTRIK

SESI II 2024/2025

DECLARATION OF AUTHENTICITY AND PROPERTY RIGHTS

**ENTER YOUR PROJECT TITLE UP TO 3 LINES FONT 18
TIMES NEW ROMAN, SINGLE SPACING**

1. I, Student's Name (NO.IC:) am a student of the Diploma in Electronic Engineering (XXXXXXX), Sultan Idris Shah Polytechnic, whose address is at Sungai Lang, 45100, Sungai Ayer Tawar, Selangor.
2. I acknowledge that the "Project above" and the intellectual property in it are the result of my original work / design without taking or copying any intellectual property from other parties.
3. I agree to release the ownership of the intellectual property of "the Project" to "the Polytechnic" to meet the requirements for the awarding of the Diploma in Electronics Engineering to me.

Made and truly acknowledge)

by the said;

STUDENT'S NAME

(Identity Card No.: XXXXXX-XX-XXXX)

)

)

)

.....

STUDENT'S NAME

In front of me, SUPERVISOR'S NAME

(XXXXXX-XX-XXXX)

as Project Supervisor on the date:

)

)

.....

SUPERVISOR'S NAME

ACKNOWLEDGEMENTS

Write your acknowledgements

ABSTRACT

Write your abstract. Brief write up summarizing the whole proposal. Not more than 250 words in one page. Among important info to be included are:

- (a) What project to be conducted and Why?
- (b) Problem statement
- (c) Methodology to solve the problem
- (d) Expected results

ABSTRAK

Write your abstract in Malay language.

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CHAPTER 1

INTRODUCTION

1.1 INTRODUCTION

What to write in the Introduction part in every Chapter - Write a short summary (one paragraph) on the content of the chapter. This chapter explains the overview of this project proposal. It includes a brief introduction to the proposal project which includes project background, problem statement, project scope and project significance.

1.2 PROJECT BACKGROUND

Project background refers to the latest information related to the current issues focused by the project. The aim is to inform readers of the industry's present status related to the issues. Project background should be supported by relevant references. The rationale of why the project should be carried out can also be included.

1.3 PROBLEM STATEMENT

Problem statement refers to any issue/problem that requires solution. This part should explain problems to be solved by the project and contribution of the project's outcome to solve the problem collectively or partially.

Problem statement must have a clear relationship with stated project background by considering the following:

- (a) Factor or reason that led to the problem;

- (b) Impacts/effects of the existing problem to the nation/society/economy/environment; and
- (c) References that support the problem statement.

1.4 PROJECT OBJECTIVE

Project objective must relate to the problem statement and need to state how the problem can be solved:

- 1) The recommended project objectives are between 2 to 3 objectives.
- 2) The objectives outlined must be attainable and can be measured at the end of the project implementation.

1.5 PROJECT SCOPE

Project scope explains the project's limitations. This explanation is significant to ensure the readers can understand the boundaries of the project. Among the limitations the students can identify are sample, duration, location, scope, methodology, design limitation and more.

1.6 PROJECT SIGNIFICANCE

This part of the proposal discusses the importance of the projects as well as the value and contribution of the project's outcome. **Include impact of the project to the society, environment, and sustainability.**

1.7 EXPECTED OUTCOME

A statement explaining the project's outcome that is expected to be achieved.

1.8 OUTLINE OF PROPOSAL

Write the outline of each chapter. What the reader can expect in the chapters.

1.9 CHAPTER SUMMARY

Provide summary of the presented information in Chapter 1 and continuation to the next chapter.

CHAPTER 2

LITERATURE REVIEW

2.1 INTRODUCTION

What to write in the Introduction part in every Chapter - Write a short summary (one paragraph) on the content of the chapter. This chapter should include a brief introduction to the project on concept or related theory and previous works related to the project. Reviews of information from journals, books, proceedings, and previous literature should be presented in this chapter.

In the process of conducting literature review, the outcomes and findings from other researchers or projects in the field of study are to be identified. The references should be relevant and at least from 5 years back. Main elements to be highlighted are:

- (a) Find similarities
- (b) Find differences
- (c) Criticize
- (d) Synthesize and
- (e) Summarize

2.2 LITERATURE REVIEW TOPIC 1

Provide the study or investigation conducted on previous projects from literature or currently in the market, weakness present in the current technology, problems need to solve, other supporting theories etc. All information extracted from literature **must be cited using IEEE format and should be included in the reference list.**

2.3 LITERATURE REVIEW TOPIC 2

The section in this chapter is not fixed and can be adjusted based on the topic to be discussed based on literature. Students may add more topics and subtopics where needed. At the end of this chapter, a comparison table on the previous studies or projects reviewed must be presented.

Table 2.1: Comparisons of Previous Study

	Project A [8]	Project B [9]	Project C [10]

2.4 CHAPTER SUMMARY

Summarize information presented in Chapter 2.

CHAPTER 3

METHODOLOGY

3.1 INTRODUCTION

What to write in the Introduction part in every Chapter - Write a short summary (one paragraph) on the content of the chapter. Methodology refers to suitable methods on conducting the project and procedures in answering the outlined problem statement. An explanation on the work process must be stated clearly and should be in line with the Gantt Chart of the project. The topic and subtopic outlined in this format is the minimal requirement and can be added as required.

3.2 PROJECT SYSTEM DESIGN AND OVERVIEW

Describe the whole project and prototype design.

3.2.1 Block diagram of the project.

Include and explain on the block diagram of the proposed system in solving the problem.

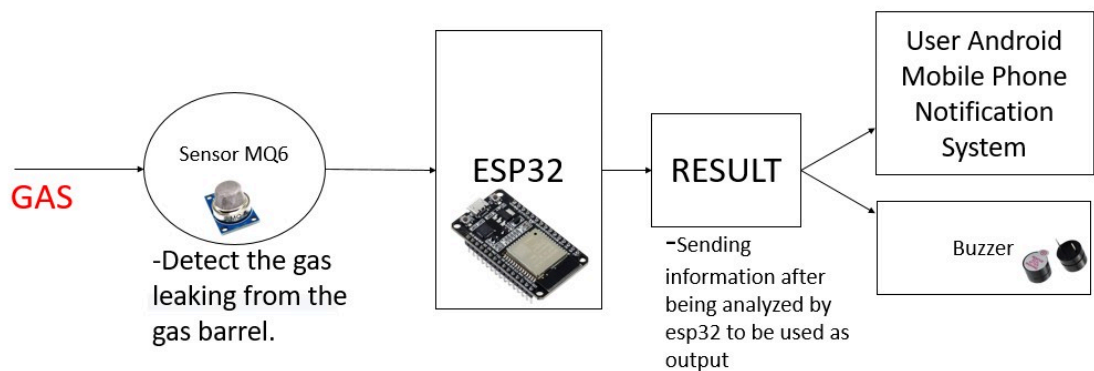


Figure 3.2.1: Block Diagram of the overall system

3.2.2 Flowchart of the project

Include the project's flowchart and prototype of the working system. The flow chart must also be explained.

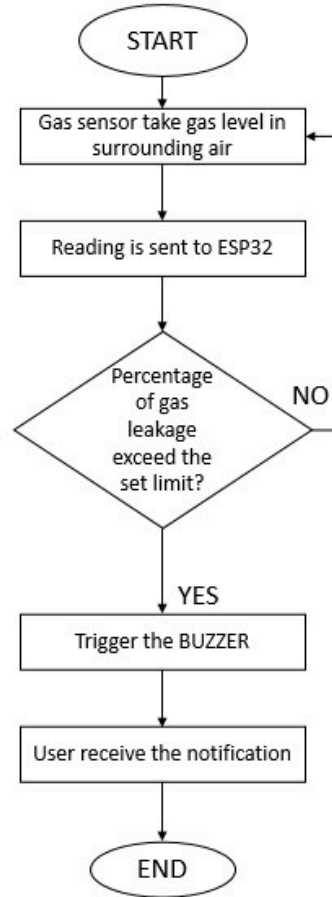


Figure 3.2.2: Flowchart of the project system

3.2.2 Project Description

Must include Gantt chart, time management explanation, decision making, organization of ideas and delegation of work elements.

3.3 PROJECT HARDWARE

Explain the proposed hardware to be used in completing the prototype and testing the outcome. Clarification on the reason for choosing the specific hardware must also be included. The function, specification, measurement, and quantity of each hardware listed must be discussed.

3.3.1 Schematic circuit

Include engineering diagram of the prototype which shows each component clearly. The size of the model and materials used could also be included.

3.3.2 Description of Main Component

Explain the function and materials of the main component of the proposed circuit.

3.3.3 Circuit Operation

Explain the operation of the proposed circuit.

3.4 TESTING AND ANALYSIS

Discuss how the project or prototype will be tested, especially on the functionality of the system. The type of testing can be explained and the methods to conduct it can also be included.

3.5 PROJECT COSTING

In this section, the entrepreneurial opportunity, entrepreneurial experience, and financial management element should be included. Project expected cost can be presented with the details of the cost in the Appendices part. From the costing,

projection of prototype market price could also be calculated by proposing a suitable profit margin. The market and targeted user can also be explained.

3.7 CHAPTER SUMMARY

Summarize chapter 3 and provide a brief conclusion.

REFERENCES

- [1] *Buku Panduan Pelaksanaan Projek Pelajar (Program Diploma) Politeknik Malaysia*, 2021 ed., Putrajaya: Jabatan Pendidikan Politeknik dan Kolej Komuniti, 2021, Accessed: Abbreviated September 24, 2024. [Online]. Available: <https://www.jkeproject.com/panduan/buku-panduan-pelaksanaan-projek-pelajar-program-diploma-politeknik-malays>

APPENDIX 1 – GANTT CHART

APPENDIX 2 – COSTING