MAJOR & MINOR PROJECT GUIDELINES
Lalitpur Engineering College

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PROJECT GUIDELINES

1. **COVER PAGE (Center Alignment)**
2. **TITLE PAGE**
3. **ACKNOWLEDGEMENT**
4. **ABSTRACT**
5. **TABLE OF CONTENT**
6. **LIST OF TABLES**
7. **LIST OF FIGURES**
8. **LIST OF ABBREVIATIONS**
9. **LIST OF EQUATION**
10. **CHAPTER 1. INTRODUCTION**
    - 10.1 **Introduction**
    - 10.2 **Motivation**
    - 10.3 **Problem Statement**
    - 10.4 **Objectives**
    - 10.5 **Scope and Application**
    - 10.6 **Originality of Project**
    - 10.7 **Organization of project report**
11. **CHAPTER 2. LITERATURE REVIEW**
12. **CHAPTER 3: REQUIREMENT ANAYSIS**
13. **CHAPTER 4: METHODOLGY**
    - 13.1 **Theoretical Formulation**
    - 13.2 **Mathematical Modelling**
    - 13.3 **Implementation Details**

Chapter 2

Literature Review

Guidelines

Each reviewed work should include the following:

- **What is the work?**
- **How is it done?** (methods, algorithms, innovations)
- **Applications or importance**
- **Limitations or drawbacks**
- **Critical observations**

2.1 Work 1 Title

- **Summary:** [Brief summary]
- **Methodology:** [How it works]
- **Applications:** [Use cases]
- **Drawbacks:** [What it lacks]
- **Criticism:** [Why it could be improved]

Chapter 3

Requirement Analysis

3.1 Hardware Requirements

- e.g., Raspberry Pi, Camera, etc.

3.2 Software Requirements

- e.g., Python, TensorFlow, Flask, etc.

3.3 Feasibility Study

3.3.1 Technical Feasibility

[Describe technology viability]

3.3.2 Economic Feasibility

[Describe budget considerations]

3.3.3 Operational Feasibility

[Discuss system usability]

3.3.4 Legal Feasibility

[Licensing or compliance issues]

Chapter 4

Methodology

4.1 Overview

Explain the order of execution of each block/component.

4.2 Detailed Description of Each Stage

4.2.1 Data Collection

Describe how data was gathered.

4.2.2 Preprocessing

List algorithms or methods (e.g., normalization, augmentation).

4.2.3 Model Development

- Model type (e.g., CNN, SVM)
- Algorithm or architecture
- Training process

4.2.4 Testing and Evaluation

Describe performance metrics (accuracy, precision, recall, etc.)

Chapter 5

System Design

5.1 System Architecture / Block Diagram

5.2 Block Descriptions

Explain each module (e.g., Data Collection, Preprocessing, Model Training, etc.)

5.3 ER Diagram (if applicable)

5.4 Data Flow Diagram

Chapter 6

Result and Analysis

6.1 Results

6.2 Analysis

Use graphs for visual representation.

6.3 Comparison with Existing Works

Compare metrics or outcomes.

Chapter 7

Conclusion and Future Enhancements

7.1 Conclusion

Summarize your objectives, methods, and outcomes.

7.2 Limitations

Clearly state what you could not cover.

7.3 Future Enhancements

- Integration with mobile apps
- Real-time streaming data support
- Deployment on edge devices