

# Project Proposal Documentation Submission

This project proposal serves as a conceptual and academic foundation for Thesis 1. It is intended to demonstrate your ability to:

- Identify a viable research or development problem
- Ground the problem in scholarly literature
- Propose a coherent and feasible direction for the full thesis work

This is not yet a full thesis proposal, but it must already meet academic writing and formatting standards.

## Submission Guidelines

Submission format: Softcopy only

Accepted file format: PDF (single consolidated file)

Submission method: Via the official course submission link

Filename format:

Group Name\_ProjectProposal.pdf

## Formatting Requirements (APA 7th Edition)

Paper size: A4

Margins: 1 inch on all sides

Font:

Times New Roman, 12 pt or

Arial, 11 pt

Line spacing: Double-spaced

Paragraph alignment: Left-aligned

Page numbers: Top-right corner

Headings: Follow APA 7 heading levels

Citations and references: Strictly APA 7 format

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### Introduction

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***Introduction (800–1,000 words)***

***Background of the Study (500–600 words)***

*Describe the domain problem, current practices, and technological context.*

***Rationale of the Study (300–400 words)***

*Explain why the problem is worth solving and why a CS-based solution is appropriate.*

***Problem Statement (300–400 words)***

***General Problem (1 paragraph)***

***Specific Problems (3–5 numbered items)***

*Each problem must be answerable by the proposed system or study.*

***Objectives of the Study (250–300 words)***

***General Objective (1 paragraph)***

***Specific Objectives (3–6 numbered objectives)***

*Use measurable verbs (design, develop, evaluate, analyze).*

***Significance of the Study (300–400 words)***

*Discuss the beneficiaries, including students, advisers, institutions, and future researchers.*

***Scope and Delimitation (200–300 words)***

*Clearly state what is included and excluded. Avoid vague statements.*

***Review of Related Literature (2,000–2,500 words)***

*Discuss foundational concepts, trends, and relevance to student performance prediction. Cite at least 10 studies.*

*Review supervised learning models such as decision trees, logistic regression, random forest, and neural networks. Compare strengths and limitations.*

#### **Existing Student Advising and Early-Warning Systems**

*Analyze prior systems, platforms, or frameworks used in academic advising. Highlight system features and gaps.*

#### **Research Gaps Identified**

*Synthesize the reviewed literature and clearly state what is missing, insufficient, or unresolved, and how this relates directly to the proposed study.*

#### **Conceptual Framework (300–400 words)**

*Explain the relationship between inputs, processes, and outputs.*

#### **System Architecture (300–400 words)**

*Describe the logical and physical components of the system.*

*Architecture Diagram (Appendix A):*

*[User Interface] | [Application Server] | [ML Engine] | [Academic Database]*

#### **Project Overview (300–400 words)**

*Describe the proposed system or solution, key features, and user roles.*

#### **Initial Methodological Direction (400–500 words)**

*Briefly discuss research design, data sources, model training approach, and evaluation direction. Do NOT include full instruments.*

#### **Expected Output and Contributions (200–300 words)**

*List tangible outputs and expected contributions to CS and practice.*

#### **Project Management Plan (300–400 words)**

*Gantt Chart (Appendix B)*

*PERT Diagram (Appendix C)*

*CPM Network (Appendix D)*

*Explain task dependencies and identify the critical path.*

#### **Conclusion (200–300 words)**

*Summarize the proposal and reaffirm feasibility and relevance.*

#### **References (Minimum 10, APA 7)**

#### **Appendices**

*Appendix A – System Architecture Diagram*

*(Expanded, redrawn version of Section 8)*

*Appendix B – Gantt Chart*

*(Detailed timeline)*

*Appendix C – PERT Diagram*

*(Task dependency visualization)*

## **IMPORTANT REMINDERS:**

Follow APA 7 strictly.

Stay within word limits ( $\pm 10\%$ ).

Appendices must be referenced in-text.

This proposal is expected to reach ~40 pages when properly formatted, including figures and spacing.