GUIDELINES FOR THE PREPARATION OF MAJOR PROJECT SYNOPSIS REPORT

1. General Formatting Requirements

- The Major Project Synopsis Report shall be typed neatly on one side of A4-size paper (210 × 297 mm).
- The page margins shall be: Left – 1.25 inches; Right – 1 inch; Top – 0.75 inch; Bottom – 0.75 inch.
- The report shall use Times New Roman as the standard font throughout, unless otherwise specified.
- The body text shall be 12-point, justified, with 1.5-line spacing.
- The synopsis should be concise, technically clear, and prepared in consultation with the assigned Project Mentor.
- The project title, Project Team ID, student names, roll numbers, and Project Mentor name must remain consistent throughout the synopsis, presentation, and project records.

2. Page and Paragraph Formatting

- Use A4 paper size and print on one side of the paper.
- Use 1.5-line spacing for the main body of the report.
- Paragraphs shall be properly justified.
- Avoid unnecessary blank lines, excessive indentation, decorative fonts, or inconsistent formatting.
- Page numbers should be placed consistently throughout the report.
- The overall presentation of the report should be clean, professional, and readable.

3. Chapter and Heading Format

Chapter headings shall follow the format below:

- Chapter number: Times New Roman, 16 pt, Bold, left justified.
- Chapter title: Times New Roman, 18 pt, Bold, centered.
- Section number and heading: Times New Roman, 14 pt, Bold, left justified.

- Subsection number and heading: Times New Roman, 12 pt, Bold, left justified.

4. Recommended Structure of the Synopsis

The synopsis shall be organized according to the following sequence:

1. Abstract
2. Introduction
3. Literature Review
4. Problem Statement & Objectives
5. Proposed Methodology
6. Hardware and Software Requirements
7. Expected Outcomes
8. Conclusion
9. References

5. Content Guidelines

5.1 Abstract

The abstract should provide a concise overview of the proposed project. It should clearly communicate the problem being addressed, the proposed solution or approach, the major methodology or techniques to be used, and the expected outcome of the project.

5.2 Introduction

The Introduction should establish the background and context of the project. It should explain the area of the project, the motivation for selecting the problem, the significance of the proposed work, and the need for the proposed system or solution.

5.3 Literature Review

The Literature Review should discuss relevant existing research, systems, methods, frameworks, or technologies related to the project. Students should identify the limitations, gaps, or challenges in existing approaches and explain how the proposed project is related to or different from them.

- Use relevant and credible academic sources.
- Cite sources appropriately within the text.

- Avoid simply listing papers; provide a meaningful comparison and synthesis of the existing work.

5.4 Problem Statement & Objectives

The Problem Statement should clearly and precisely define the problem that the project intends to solve. The Objectives should state what the project is expected to accomplish.

- Objectives should be specific, clear, and achievable.
- Objectives should directly address the stated problem.
- Where appropriate, objectives may be presented as numbered points.

5.5 Proposed Methodology

This section should explain how the proposed project will be designed and implemented. It should provide sufficient technical detail to demonstrate that the proposed solution is feasible.

- Describe the overall system architecture or workflow.
- Include a suitable block diagram, flowchart, architecture diagram, or system design where applicable.
- Explain the major modules/components of the proposed system.
- Mention the algorithms, techniques, frameworks, databases, or models to be used, as applicable.
- For AI/ML-based projects, describe the proposed dataset, preprocessing, model/algorithm, training/evaluation approach, and performance measures, where applicable.

5.6 Hardware and Software Requirements

List the hardware and software resources required for development and execution of the proposed project.

- Hardware requirements may include processor, RAM, storage, GPU, sensors, or other required devices.
- Software requirements may include operating system, programming languages, frameworks, libraries, databases, development tools, cloud platforms, or APIs.
- Requirements should be specific to the proposed project and should not be unnecessarily generic.

5.7 Expected Outcomes

Clearly state the expected deliverables and results of the project. These may include a working software system, application, prototype, database, model, dashboard, performance evaluation, or other measurable outputs, as appropriate.

5.8 Conclusion

The Conclusion should briefly summarize the proposed work, its expected significance, and the intended contribution or usefulness of the project.

6. Figures and Tables

- All figures and tables must be properly numbered and referred to in the text.
- Figures and tables shall be numbered chapter-wise.
- Examples: Fig. 2.1 Block Diagram of the Proposed System; Table 3.1 Comparison of Existing Methods.
- Figure/table captions shall use Times New Roman, 10 pt, Bold.
- Figures and tables should be clear, appropriately sized, and relevant to the discussion.
- Do not include decorative figures or tables that do not contribute to the technical content.

7. Equations

- Equations, where required, shall be numbered chapter-wise in decimal form.
- Example: V = IZ ..... (3.2)
- Equation numbers should be aligned consistently and referred to in the text where applicable.

8. References and Citation

- All sources used in preparing the synopsis must be cited appropriately in the report.
- All references cited in the text must appear in the References section.
- References should be presented in a consistent academic format. IEEE style is recommended for CSE projects.
- Students should prefer relevant research papers, books, standards, official technical documentation, and other credible academic/technical sources.

- Avoid relying primarily on unverified websites, blogs, or automatically generated content as academic references.

9. Academic Integrity

- The synopsis must represent the original work and proposed contribution of the project team.
- Any material, idea, figure, table, dataset, code, or text obtained from another source must be appropriately acknowledged or cited.
- Plagiarism, fabrication of results, or misrepresentation of work is not acceptable.
- Students must ensure that the content of the synopsis is technically accurate and can be explained by the project team during the presentation.

10. Consistency and Final Verification

- Verify the Project Team ID (for example, CSE27-XXX) on every required document.
- Verify the spelling of all student names, roll numbers, project title, and Project Mentor name.
- Ensure that the contents of the synopsis are consistent with the proposed project and presentation.
- Check that all figures, tables, equations, and references are correctly numbered and cited.
- The final synopsis should be reviewed by the assigned Project Mentor before submission.

11. Final Checklist

- A4 page size and specified margins are followed.
- Times New Roman font and prescribed font sizes are used.
- Body text is 12 pt, justified, with 1.5-line spacing.
- Chapter, section, and subsection headings follow the prescribed format.
- All required sections are included in the prescribed order.
- Project title, Team ID, student details, and mentor details are correct.
- Figures and tables are numbered chapter-wise and have appropriate captions.
- Equations are numbered chapter-wise where applicable.
- All in-text citations have corresponding entries in References.

- The synopsis has been reviewed and finalized in consultation with the Project Mentor.

12. Note to Students

Students are required to prepare the Major Project Synopsis Report by following the above guidelines and in consultation with their assigned Project Mentor. The synopsis should communicate the proposed project clearly, demonstrate technical understanding of the problem, and provide a realistic methodology for completing the major project.