Final Year Project Report – Suggested Structure **(use the template!)**

Title Page: Project Title, Student Name, Student ID, Supervisor Name, Institution Name and logo
Abstract: The abstract is a concise summary of the entire project, providing a clear overview of its purpose, approach, and key findings. It should be self-contained and typically range between 150–250 words. A strong abstract begins with a brief introduction to the topic, outlining the problem being addressed and its relevance. This is followed by a clear statement of the project's aim and objectives, explaining what the work sets out to achieve. Next, the methodology should be summarised, highlighting the approach taken, including any key techniques, tools, or frameworks used. The most important results or findings should then be presented, ensuring that they are specific and, where possible, quantified. Finally, the abstract should conclude with a summary of the overall impact of the work, its significance, and potential applications or future developments. The abstract should be written last, once the project is complete, to ensure it accurately reflects the final outcomes. It must be clear and concise, avoiding excessive technical detail while ensuring the reader gains a complete understanding of the project without needing to read the full report.
Acknowledgments *(Optional):* This section provides an opportunity to express gratitude to family/supervisors/ colleagues or anyone who contributed to the project.
Table of Contents: List of Chapters and Sections with corresponding page numbers.
List of Figures: Numbered list of all figures used in the report.
List of Tables: Numbered list of all tables used in the report.

Chapter 1: Introduction
1.1 Background and Motivation

- Provide a brief introduction to the field of study, outlining key advancement in technology relevant to the project
- Discuss the current challenges or gaps in knowledge/technology that justify the need for the project.
- Clearly define the problem statement and explain why this project is important.

1.2 Aims and Objectives
The aim of the project defines the broad goal—what the project intends to achieve. The objectives act as milestones, breaking down the aim into measurable and actionable steps. Each objective should be specific, clear, and logically sequenced to ensure progress toward the overall goal.

- Aim: Clearly state the overall aim of the project. This should define the overall purpose and direction of the work.
- Objectives: List the specific objectives that will be achieved to fulfil this aim. These should be measurable and follow a logical progression.

1.3 Scope and Contributions

- Define the scope of the project, including any constraints or limitations.
- Briefly highlight the key contributions of this work, focusing on its impact or originality.

Chapter 2: Technical Background and Literature Review
2.1 Technical Background Describe the fundamental technologies, theories, or concepts relevant to the project.
2.2 Industry Solutions Review existing industrial solutions or applications addressing similar problems.
2.3 Literature Review Summarise and critically compare existing research related to the project papers. Discuss methodologies, findings, and relevance.
Include a comparison table evaluating existing solutions.

Chapter 3: Proposed System: Design and Implementation
3.1 System Overview Describe the high-level architecture or workflow of the proposed solution.

3.2 System Components Outline the hardware and software components used. Describe any mathematical models, algorithms, and software tools if applicable.
3.3 Implementation Details Provide a step-by-step explanation of system development. Code snippets, flowcharts, and diagrams to illustrate the design.

Chapter 4: Performance Evaluation Setup and Scenarios
4.1 Evaluation Methodology Define the performance metrics used for evaluation. Justify why these metrics were chosen.
4.2 Test Environment Specify the hardware/software configurations used for testing.
4.3 Test Scenarios Describe different experimental setups and parameters used in testing.

Chapter 5: Results and Discussions
5.1 Experimental Results Present results in a clear and structured format, using tables, graphs, and plots where appropriate.
5.2 Performance Analysis Compare results with expected outcomes or benchmarks to assess performance.
5.3 Discussion Interpret results, highlight key observations, and discuss limitations.
5.4 Comparison with Related work *(if applicable)* Compare your finds with existing research or industry standards to benchmark your results.

Chapter 6: Conclusions and Future Works
6.1 Summary of Contributions Recap the key achievements of the project. Relate the outcomes to the project's original objectives.
6.2 Limitations Discuss any constraints, challenges or limitations encountered during the project.
6.3 Future Work Suggest improvements, scalability options, or next steps for future research.

References Cite all references in IEEE or Harvard format.
Appendices *(If applicable)* Appendices should only include supplementary material that supports the main report but is not essential for understanding the core work. Examples include additional diagrams, lengthy code snippets, or extended mathematical proofs.