**Technical Report (Mini Project)**

**1. Title Page**

* **Project Title**
* **Student Name(s)** and **Roll Number(s)**
* **Department / Institution / University**
* **Supervisor / Guide Name**
* **Course / Semester** (e.g., “Mini Project Report – B.Tech.(CSE) Semester III”)
* **Date of Submission**
  1. **Acknowledgements**
* Thank you to the supervisor
* Certificate of by the student

**3. Abstract**

* A **150–250 word summary** of the project. (Max. 1 page)
* Briefly include: (Max 2-3 pages)
  + Problem statement
  + Objectives (List 3–5 clear, measurable goals.)
  + Methodology Followed
  + Key findings or outcomes
  + Significance or applications

**4. Introduction.**

* **Background and context** of the project topic. (Max. 1 page)
* **Relevance/motivation**: Why this project matters in your engineering field. (Max. 1 page)

**5. Methodology / System Design**

* **Block diagrams or flowcharts** of the proposed method or system. (Max. 2-3 pages)
* Detailed **description of algorithms, models, or experimental setup**. (Max 2-3 pages)
* **Step-by-step implementation plan** or **system architecture**.
* For simulation, mention **theoretical models or equations used**. (Max. 2-3 pages)

**6. Implementation / Experimental Setup**

* Detailed account of how you implemented the method:
  + Hardware configuration (Max. 1 page)
  + Simulation environment (Python, Libraries used, APIs used.) (Max. 1 page)
  + Datasets used and preprocessing steps
* Code snippets.
* Screenshots of GUI / CUI and output

**7. Results and Discussion.**

* Present **results in tables, graphs, or images**.
* Include:
  + **Observations and interpretations** — what do the results mean?
  + Discussion on **limitations** or **challenges faced**.

**8. Conclusion and Future Work**

* Summarize **main findings** and **achievements**.
* Discuss how well objectives were met.
* Suggest possible **improvements or future extensions** of the work.

**9. References**

* List all books, papers, websites, and resources cited.
* Please acknowledge ChatGPT (for sure)

**Formatting Tips**

* Font: *Times New Roman, 12 pt*
* Line spacing: *1.5*
* Margins: *1 inch on all sides*
* Number all figures, tables, and equations with proper captions.
* Include a **table of contents**, **list of figures**, and **list of tables**.