

Bangladesh Army University of Engineering & Technology (BAUET)

Qadirabad, Natore-6431

Department of Computer Science and Engineering

A Proposal for the Undergraduate Project/IDP

To be Entitled

Course Code: ……

Course Title:…….

[THE TITLE OF THE PROPOSED PROJECT]

(The title of the project should be clear, concise and specific)

Submitted By	Submitted To
Student Name:	Supervisor's Name:
Student ID:	Designation:
Batch:	
Session:	

Date: ……[Date of Proposal Here]

Approved: _____ Date: _____

(Signature of the Thesis Supervisor)

Approved: _____ Date: _____

(Signature of the Program Head)

Declaration

I hereby declare that the work presented in this proposal is my original work, and it has not been submitted elsewhere. All sources have been appropriately acknowledged.

Signature: _____

Name: _____

Date: _____

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Formatting Guidelines

Element	Format
Font Face	Times New Roman
Font Size	12 pt (body), 14 pt bold (titles)
Line Spacing	1.5
Margin	1 inch (all sides)
Text Alignment	Justified
Figure/Table Caption	Font Size 11, italic, centered below figures and above tables
Page Numbering	Bottom center

Executive Summary *(150–200 words)*

Describe the project in terms of engineering design:

- The problem
- The proposed engineering solution
- Why it matters (economy, environment, safety, etc.)
- Key technologies used
- Team overview (if applicable)

1. **Introduction:** Describe the background, industry relevance, and the real-world applicability of your design.

1.1. Problem Statement: State the engineering design challenge with technical clarity.

1.2. Objectives: List 3–5 specific aims. Example:

- To design…**…….**
- To test……

1.3. Scope and Limitations (Specify the boundary of your work.**)**

2. **System Requirements:** Divide into:
    - **Functional Requirements** (What it should do)
    - **Non-functional Requirements** (Performance, reliability, etc.)

3. **Design Methodology:** Include:
    - Flowcharts or UML diagrams *(Figure)*
    - Process Planning
    - Design Calculations *(if applicable)*
    - Material/Software selection criteria

4. **System Architecture / Design Block Diagram:**
   (Example. Show sensor interfaces, controllers, cloud/server, UI, etc.**)**

5. **Feasibility & Risk Analysis:**
   Example:

Table 1. Risk Assessment Matrix

Risk	**Impact**	**Likelihood**	**Mitigation**
Sensor calibration issue	High	Medium	Use factory-calibrated sensors

6. **Project Timeline:** (Use **Gantt Chart**)

7. **Cost Estimation:** (Budget Summary)

8. Expected Outcomes:

- A tested prototype or system
- Technical report with analysis
- Poster and presentation for exhibition

9. References:

- A properly formatted list of all sources cited
- Use IEEE citation style

Example:
[1] A. Smith et al., "Real-time energy monitoring using IoT," *IEEE Trans. Smart Grid*, vol. 12, no. 3, pp. 124–130, 2021.

10. Detailed Mapping of CO-PO-KP-CEP-CEA

11. Supervisor Comments & Approval:

I approve this proposal for further work and development.

Supervisor Name: _____

Signature: _____

Date: _____