

# IoT Project Proposal Guidelines

**Objective:** Develop an innovative IoT-based solution that addresses a specific problem or enhances efficiency in a chosen domain.

**Proposal Format:**

**Slides:** Maximum of 12 slides.

**Written Proposal:** 2 pages in length, summarizing the idea concisely.

## Slide-by-Slide Guide

### 1. Title Slide

- Project title
- Team name and member details
- Supervising lecturer's name
- Date of submission

### 2. Problem Statement

- Clearly state the problem or need your project addresses.
- Provide real-world examples or statistics to emphasize the issue.

### 3. Objectives

- List the main objectives of the project.
- Describe how your project intends to address the problem.

### 4. Solution Overview

- Provide a high-level overview of your proposed IoT solution.
- Include any unique features that set your solution apart.

### 5. Project Scope and Limitations

- Define the scope of the project (what it will cover and what it will not).
- Mention any assumptions or constraints.

## 6. System Architecture

- Display the architecture of the IoT system (e.g., sensors, gateways, cloud storage).
- Explain data flow and interactions between components.

## 7. Hardware and Software Requirements

- List of the primary hardware components (e.g., sensors, microcontrollers).
- Mention essential software requirements and tools.

## 8. Literature Review

- Describe how data will be collected, processed, and stored.
- Explain any data analysis methods or algorithms used.

## 9. Network and Security Considerations

- Outline the network structure (e.g., Wi-Fi, Bluetooth).
- Briefly discuss data security measures.

## 10. Expected Benefits

- Explain the benefits or impacts of implementing your solution.
- Highlight environmental, financial, or social benefits.

## 11. Project Timeline (Gantt Chart)

- Show key project phases and deadlines.
- Include milestones like prototyping, testing, and final delivery.

## 12. Conclusion

- Summarize the project's significance.
- End with a call to action or project vision.

#### Maximum 5 Page Proposal Content

##### Page 1: Project Overview

1. Title: Project title and team details.
2. Problem Statement: A brief description of the problem addressed.
3. Objectives: Clear and concise objectives.
4. Proposed Solution: High-level overview with a unique angle.
5. Scope and Limitations: Briefly outline the scope, limitations, and assumptions.

##### Page 2: Technical and Practical Details

1. System Architecture: A concise description of the architecture and components.
2. Hardware & Software Requirements: Key components and tools.
3. Data Processing: Methods for data handling.
4. Network and Security: Planned network structure and security measures.
5. Expected Benefits: Project's impact and value.
6. Timeline: Key milestones, using a brief chart or bullet points.

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