**Logo, company name

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**EEE 302: TERM PROJECT**

**FIRE FIGHTING SYSTEM OF AN INDUSTRY**

**Project Aim:**

To build a microcontroller-based firefighting system for an industry that will be activated when there will be a siren or fire alarm.

**Project Report:**

Follow the lab report template for the cover page. Then, go through the following steps:

1. Project Objective
2. Design Procedure
3. Software simulation
4. Hardware Implementation
5. Total Cost
6. Project Outcome: Discussions and Outcomes (What have you learned)
7. Conclusion: Mentioning the social impact of this project.

**Rubrics for the assessment of the design and report**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Performance  Indicators | Outstanding  (10) | Good  (8-9) | Satisfactory  (6-7) | Unsatisfactory  (0-5) |
| Understanding  design requirements | Fully understands the purpose and function of the system to be designed, fully aware of the constraints | Reasonably understands the purpose and function of the system to be designed, fully aware of the constraints | Understands to some extent the purpose and function of the system to be designed, fully aware of the constraints | Has a vague or no understanding of the purpose and  The function of the system to be designed, fully aware of the constraints |
| Following sound design procedure | Design procedure is very systematic and clear. Design decisions are taken through appropriate analysis and comparison of options | Design procedure is reasonably systematic and clear. Reasonable analysis and comparison of options are done during taking design decisions | The design procedure followed is to some extent systematic and clear. Analysis and comparison of options are done to some extent during taking design decisions | Does not follow any systematic and clear design procedure. Analysis and comparison of options are not done during taking design decisions |
| Satisfying design requirements | Clearly demonstrates that all design requirements are met | Reasonably demonstrates that all design requirements are met | Demonstrates to some extent that all design requirements are met | Does not demonstrate meeting all design requirements or demonstrate only partially. |
| Performing economic analysis | Economic analysis is thorough and correct. All cost components are appropriately considered | Economic analysis is reasonable. All cost components are appropriately considered | Performs economic analysis to some extent. Aware of all cost components | Does not perform economic analysis and/or not aware of all major cost components |