

## Internet of Things: Introduction (IST 360/460) - Term Project Guideline

### Introduction

In this project, you will design an IoT-based application using any of the platforms discussed in the class. The focus of your project will be to design an IoT system that can be built on a low-cost budget for a real-world application. To complete this project, you'll need to use all the skills you've learned in the course (circuit designs, programming, interfacing, etc.). In the end, you will produce a report on the project, and also present your project to the class.

### Project Description

The following is the formal project description.

- The term project will be done in groups of not more than 5 members
- The report should include:
  - Project title and list of team members
  - Introduction (problem description, solution description, what will be provided - deliverables)
  - Requirements (Functional & non-functional)
  - Related work (similar solutions, apps/services)
  - Architecture
  - Software/Hardware components used for the development
  - Description of what each team worked on
  - Conclusion - limitations and future work
  - References
- Each project should involve:
  - At least two or more IoT device components
  - IoT development platform of your choice
  - An application to demonstrate proof-of-concept

## Grading and Evaluation Criteria

***Project final report: 150 points***

***Project Presentation: 150 points***

Criteria	Points
Incorporation of IoT Design and Development skills	20
Understanding of the concepts applied in the app development	20
Flow and Clarity of Presentation	15
Quality of Visuals and Screen Shots	15
Deliverables	20
Suitability and Usability of the IoT App in real-world	20
Participation of each team member	20
Overall Impression	20
<b>TOTAL</b>	<b>150</b>

***\*\*The project final presentation and demo will be done on December 10***