Internet of Things Course		**Project description**
Instructor: Laith W. AL Shehab		**1st Semester 2023/2024**

Getting Started

Important Due Dates:

- **Week 4 – Selection and approval of the project idea**
- **Week 6 – Initial project proposal**
- **Week 8 – Prototype of experimental work**
- **Week 9 – Project milestone report**
- **Week 11 – Poster presentation**
- **Week 12 – Final project report**
- **Week 14 – Project Final presentation (Documentation & Experimental)**

Description:

   A major component of a course project that allows students to study an area or application of IoT in depth. Projects are to be done in groups of one up to three students, though in the case of group work each student is also required to submit a short write up detailing which portions each member worked on. The content of the course project is quite open ended: students are welcome and encouraged to tackle problems from their own research, or from other topics, using the techniques and methods taught in course.

   Good projects will 1) discuss related work and the relevant literature on the topic of interest (all projects must cite at least four external sources), and 2) demonstrate that the student(s) looked at and considered different possible approaches, implemented and evaluated applied experimental work for the problem.

Project Idea Selection

Check the Link, you will show the 20 Exciting IoT Project Ideas & Topics. The project ideas listed below may helps you to choose your project:

1. Smart Agriculture System
2. Weather Reporting System
3. Home Automation System
4. Face Recognition Bot

5. Smart Garage Door
6. Smart Alarm Clock
7. Air Pollution Monitoring System
8. Smart Parking System
9. Smart Traffic Management System
10. Smart Cradle System
11. Smart Gas Leakage Detector Bot
12. Streetlight Monitoring System
13. Smart Anti-Theft System
14. Liquid Level Monitoring System
15. Night Patrol Robot
16. Health Monitoring System
17. Smart Irrigation System
18. Flood Detection System
19. Mining Worker Safety Helmet
20. Smart Energy Grid

Proposal:

The initial project proposal, due next two weeks, must include
1) a list of the students participating in the project and project title
2) a short (500 word max) written description of the project
3) at least two references that you will be building upon in the project.
The goal of the proposal is not to actually carry out the final work (though starting early is always a good idea), but to lay out a plan for the project so that we can make sure it is the right size and scope for the class. As mentioned above, these proposals should be submitted before week 5 Wednesday class by the start of class. The proposals are worth 10% of the total project grade, but you will receive full credit as long as you make an effort to address all the elements above. Since certain proposals may need revisions after first submission, the goal here is to make sure that you submit something we can give feedback about.