**Microprocessor Systems Design**

**EEE 42101**

**Experiment 1: Environment Setup and LED Blink**

# Objectives:

* Study Basic peripherals and modules of microcontroller.
* Be familiar with the development environment.
* Put hand on the basics of compilation, linking and loading(flashing).

## Tools:

1. PC
2. Arduino Nano board
3. Testing board
4. MiniB-USB cable

Note: all material and sources of this course will be available on:

<https://github.com/ashrafmalraheem/Mircoprocessor_Course>

Feel free to download, study and modify for your own projects.

# Part 1: Compilation

Create or open the template **main.c** files. Study its content. Ensure that it will compile successfully.

You can add any code make some random arithmetic operations.

You can check the output files that you get: **main.asm, mian.o, mian.hex, ..etc**