

North South University

**School of Engineering & Physical Sciences**

**Department of Electrical & Computer Engineering**

**Project Proposal**

**Course Name : Operating System Design**

**Course Code : CSE323  
Section : 07**

**Semester : Summer 19**

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**Date of Submission : June 23, 2019**

**Weather Monitoring System**

* **Objective**   
  In the project we will make a real time weather forecasting device that will collect weather data from environment and display the data in an Android Application as well as in an LCD panel. The main purpose of the project is to lean the communication process between software and hardware through Operating System.
* **Tools List**  
  **Hardware:**

1. Microcontroller
2. Digital Temperature and Humidity Sensor
3. Bluetooth Module
4. Jumper Wire
5. LCD Display
6. Battery

**Software:**

1. Arduino IDE
2. Android Studio

* **Description**

To complete our task at first, we will assemble the hardware and connect them. After that will program the microcontroller board with Arduino IDE software. Then we will work with Android Studio to make the Android application. After building the application we’ll go through the testing and debugging process.