# IoT based Weather Monitoring System For Agriculture

## Abstract:

This project mainly combines between two-study fields based control systems and data acquisition technique through IoT, to create a system depending on the employed attributes to generate the presented data. IoT makes this system an interesting as the data is made to display on webpage continuously. The main attributes have been chosen based on the sensors used to build the system in order to create an effective weather monitoring system. The proposed sensors used to measure and store Temperature, Humidity and moisture data. The acquired data can be displayed in two ways identified as direct and indirect due to periodic data read and storing the data as real database system respectively. Real database creation technology is considered the main challenge of this work, which gives an opportunity to monitor the data, recorded in the past. Furthermore, the entire system supervises and governs locations locally based on the periodic change that occurs in the climate conditions, in order to keep the proposed field/farm in desired weather situations. Finally, light sensing module and motion sensor are included with the module to provide this system by the information regarding day / night times based light intensity and any movement of the intruder in the field/farm.

Block Diagram: