**IoT Based Chemical Detection in Fruits and Vegetables**

**Abstract:**

Internet of Things (IoT) technology has been identified as one of the emerging technologies which is widely used in all walks of life in the world. It has a wide range of applications in agriculture and food industry. Chemicals like calcium carbide / ethephon and oxytocin are reportedly being used in fruit andvegetable farms for artificial ripening of fruits and for increasing the size of fruits and vegetables respectively. By using IoT, we can monitor the fruits and vegetables and determine is it organic or not, also can identify which chemicals are used in it. With the help of a PH sensor, we are detecting the chemical contents in each fruit and vegetable. The results should be stored in our computer, it can be analysed and we can select the fruit/vegetable that is less harmless to our health.