

# I-Tech System

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## IoT Based project List

### 1) IOT based Security System with Voice Message Using ESP8266

#### Abstract:

This is another interesting IOT project in which we will build a Security system which can trigger an E-mail when it detects someone. This project has blend in the power of ESP8266, PIR sensor and ISD1820 Voice module. At the end of this article you would have built a fully functional Security system which can be Armed/Disarmed (Activated/De-activated) remotely via internet. You can record your own audio clip which will be played when a movement is detected and also send a mail with Date and time to a particular E-mail ID stating the intrusion.

### 2) IOT based Heart Beat Monitoring over Internet using Arduino and ThingSpeak.

#### Abstract:

In this project we are going to make a Heart Beat Detection and Monitoring System using Arduino that will detect the heart beat using the Pulse Sensor and will show the readings in BPM (Beats Per Minute) on the LCD connected to it. It will also send the readings to ThingSpeak server using the Wi-Fi module ESP8266, so that Heart Beats can be monitored from anywhere in the world over the internet. ThingSpeak is a great source for displaying the data online and you can access the data from ThingSpeak at any time and at any place.

### 3) IOT based Air Pollution Monitoring System using Arduino

#### Abstract:

In this project we are going to make an IOT Based Air Pollution Monitoring System in which we will monitor the Air Quality over a webserver using internet and will trigger a alarm when the air quality goes down beyond a certain level, means when there are sufficient amount of harmful gases are present in the air like CO<sub>2</sub>, smoke, alcohol, benzene and NH<sub>3</sub>. It will show the air quality in PPM on the LCD and as well as on webpage so that we can monitor it very easily.

#### 4) Live Temperature and Humidity Monitoring over Internet using Arduino and ThingSpeak

##### Abstract:

In this IoT project we are going to Monitor Humidity and Temperature over the internet using ThingSpeak where we will show the current Humidity & Temperature data over the Internet using the ThingSpeak server. It is accomplished by the data communications between Arduino, DHT11 Sensor Module, ESP8266 WIFI module and LCD. Celsius scale thermometer and percentage scale humidity meter displays the ambient temperature and humidity through a LCD display and also sends it to ThingSpeak server for live monitoring from anywhere in the world.

#### 5) Android App-Based Home Automation System Using IOT

##### Abstract:

Control and monitor the home environment using Android app with advanced features such as voice command, scheduling, and home preparing itself.

