**3118-Noise pollution monitoring**

# **PHASE-1:**

# **1. UNDERSTANDING OF problem statement:**

**To create a project involves using IoT devices and data analytics to monitor noise pollution in real-time, which will provide information about the noise pollution and so we will build an IoT decibel meter to measure the sound in particular place and record the value in a graph using IoT.**

# **2. SOLUTION FOR THE PROBLEM STATEMENT**

* A sound level meter is employed for acoustic measurements. The simplest sort of microphone is the capacitor microphone, which mixes precision with stability and reliability .that’s why the instrument is mentioned as sound pressure level meter.
* We are going to make an IoT based decibel meter that will measure the sound in decibels(db) using a sound sensor and display it to LCD display, it will also be pushing the readings to the blynk IoT platform making it accessible from across the world.

**3. DESIGN THINKING:**

We use microphone sensor to measure the sound in particular place and record the value in a graph using IoT.

* **Components used for prototype:**

1. ESP8266 node MCU board

2. Microphone sensor

3.16\*2 LCD modules

4. Breadboard

5. Connecting wires

With the help microphone sensor and LED to monitoring the noise pollution in particular place.