

**DR. D. Y. PATIL INSTITUTE OF TECHNOLOGY,**

**PIMPRI, PUNE -18.**

**Department of Electronics & Telecommunication Engineering**

**Project Based Learning Synopsis**

**(2021-22)**

**“AIR POLLUTION MONITORING SYSTEM”**

**Group No. 2**

**Students Name:**

**1.** Vaishnavi Kolhe SETA21

**2.** Aditya Urkude SETA22

**3.** Saket Urade SETA25

**4.** AjinkyaItale SETA26

**5.** ShivamGoankar SETA30

**6.** Chinmayee Gholap SETA31

**7.** Hitesh Badhan SETA32

**Ms. Nilakshi Rajule**

**Batch In-charge**

**Synopsis**

**“AIR POLLUTION MONITORING SYSTEM”**

**Abstract :**

The level of pollution is increasing rapidly due to factors like industries, urbanization, increasing in population, vehicle use which can affect human health.

IOT Based Air Pollution Monitoring System is used to monitor the Air Quality over a web server using Internet. It will trigger an alarm when the air quality goes down beyond a certain level, means when there are sufficient amount of harmful gases present in the air like CO2, smoke, alcohol, benzene, NH3 and NOx.

It will show the air quality in PPM on the LCD and as well as on webpage so that air pollution can be monitored very easily. The system uses MQ135 and MQ6 sensor for monitoring Air Quality as it detects most harmful gases and can measure their amount accurately.

**Problem Statement:**

This project is suitable for air quality monitoring in real time.Design a tool which will sense quality of air and display it in the form of percentage,Sense how much carbon mono-oxide(CO) is present in air and display in the form of percentage,Sense the temperature and display it in degree celcius.

**Objectives:**

* To measure and display temperature and humidity level of the environment.
* To combine advanced detection technologies to produce an air quality sensing system with advanced capabilities to provide low cost comprehensive monitoring.
* To display the sensed data in user friendly format in LCD display panel.