

## **ABSTRACT**

The system is an advanced real time air quality reporting system supported with Internet Of things (IOT) architecture. Degrading air quality has been a matter of concern nowadays and real time monitoring of air quality helps us to keep a check on it. Air Quality Index (AQI) is the scale to measure how polluted the air is. Greater AQI indicates more dangerous air is for human health. The model presented here uses a combination of the Arduino Mega software and hardware along with Gas sensors - MQ135 which help in detecting gases like NO<sub>2</sub>, CO, CO<sub>2</sub>, NH<sub>3</sub> while measuring their amount decently and display the AQI value, PMS7003 which gives the exact values of particulate matters in the atmosphere. Further the readings will be displayed, and a graph will be plotted on a dashboard. Temperature and humidity sensors will be used to display the current temperature and humidity.

***Keywords:*** Air quality monitoring, rain gauge, Dashboard

***Mapping with POs and PSOs:***

PO1	PO2	PO4	PO4	PO5	PO6	PO7	PO8	PO9	PO10	P011	PO12	PSO1	PSO2

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