

ABSTRACT

Industries are responsible for four types of pollution: (a) Air (b) Water (c) Land (d) Noise. The polluting industries also include thermal power plants. **Air pollution** is caused by the presence of a high proportion of undesirable gasses, such as sulfur dioxide and carbon monoxide. Air pollution affects our day to day activities and quality of life. It poses a threat to the ecosystem and the quality of life on the planet. The dire need to monitor air quality is very glaring, owing to increased industrial activities over the past years. People need to know the extent to which their activities affect air quality. This project proposes an air pollution monitoring system. This system is developed using the Arduino microcontroller. The air pollution monitoring system was designed to monitor and analyze air quality in real-time and log data to a remote server, keeping the data updated over the internet. This system also measures the garbage level and its temperature using related sensors. The result was displayed on the designed hardware's display interface and could be accessed via the cloud on any smart mobile device. The aim is to mitigate health threatening risks and to raise awareness in relation to the effects of air pollution exposure.