

IOT BASED NOISE AND AIR POLLUTION MONITORING SYSTEM

A project report submitted to Jawaharlal Nehru Technological University, Kakinada in the partial fulfillment of the requirements for the award of a degree of

BACHELOR OF TECHNOLOGY In ELECTRONICS AND COMMUNICATION ENGINEERING

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CERTIFICATE

This is to certify that the project work entitled "*IOT BASED NOISE AND AIR POLLUTION MONITORING SYSTEM*" Is being submitted for the partial fulfilment of requirements for the award of Bachelor of Technology in Electronics & Communication Engineering is a bonafide work done by P. SREE SAI SWAPNA (19815A0418), G. HEMA LATHA(19815A0409), S. SHEEBHA ANNAVAJRAM (18811A0437), N. MADHUKANTH(18811A0418) under the guidance during year 2021 -2022 and it has been found suitable for acceptance according to the requirements of the university.

PROJECT GUIDE

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ABSTRACT

In infrastructure and industrial plants, the rapid growth creating environmental issues like pollution (Air, Water, Noise), climate change, malfunctioning and has greatly consequence for the requirement of an, operationally adaptable, efficient, cheap and smart monitoring systems. In this context where combination of many challenges of computer science, wireless communication and electronics; the Smart Sensor Networks are an emerging field of research. In this paper a solution to monitor the air and noise pollution levels in industrial environment or by using wireless embedded computing system a particular area of interest is proposed. The technology like Internet of Things (IoT) is included in the form of solution which is outcome of merged field of computer science and electronics. For monitoring the fluctuation of parameters like noise and air pollution levels from their normal levels in this case the sensing devices are connected to the embedded computing system. For the requirement of continuous monitoring, controlling and behaviour analysis this model is adaptable and distributive for any infrastructural environment. For two or three parameters like noise, CO and radiation levels the implementation is tested with respect to the normal behaviour levels or given specifications which provide a monitoring over the pollution control to make the environment smart and Eco – friendly.