VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI

AN ASSIGNMENT REPORT ON

IOT AIR AND SOIL POLLUTION MONITORING SYSTEM

Submitted as Microcontroller And Embedded System

assignment work

By

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CERTIFICATE

This is to certify that, assignment work for the subject **"Microcontroller and Embedded System (21CS43)"** has been successfully completed and report submitted by MUTTURAJ UNKI(4AL21CS078), during the academic year 2022–2023. It is certified that all corrections/suggestions indicatedpresentation session have been incorporated in the report & scored 09 Marks outof 10 and deposited in the departmental library.

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IOT AIR AND SOUND MONITORING SYSTEM USING ARDUINO:

ABSTRACT:

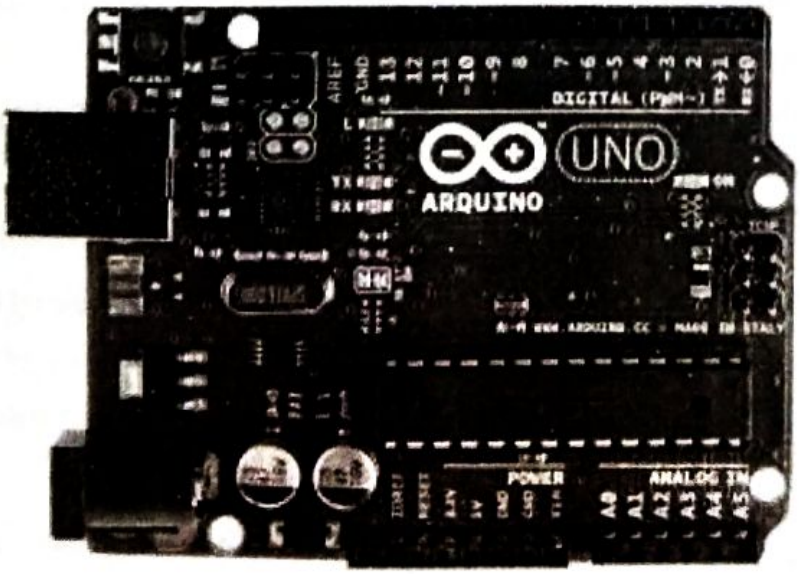
The IoT Air and Sound Monitoring System using Arduino is a project designed to monitor air quality and sound pollution levels in real-time. This system employs Arduino-based sensors to measure air pollutants and sound intensity. The collected data is then transmitted to the cloud through IoT connectivity, allowing for remote monitoring and analysis. This report provides an overview of the system's components, working principle, implementation steps, and potential applications.

INTRODUCTION:

Air pollution and sound pollution are critical environmental concerns that can affect human health and well-being. Monitoring these pollutants in real-time is essential for effective pollution management. The IoT Air and Sound Monitoring System aims to provide accurate and timely data to better understand and address these issues.

COMPONENTS USED:

1. Arduino board (Arduino Uno):



The Arduino board plays a central role in an IoT air and sound pollution monitoring system. It serves as the main microcontroller that interacts with sensors, processes data, establishes internet