

A

Project Report

On

**MICROCONTROLLER BASED SMART ALCOHOL DETECTION FOR ROAD
ACCIDENT-AVOIDANCE SYSTEM**

Submitted to

Department of

ELECTRONICS & COMMUNICATION ENGINEERING

By

KOLIPAKA SOWMYA

216Y5A0412

THELU POOJITHA

206Y1A0459

SREERAMOJU SUNETHRI

206Y1A0455

KATKURI SUJITH MEGHANA 216Y5A0411

Under the Esteemed Supervision of

Mr.N.Govardhan
Assistant Professor



DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING
SUMATHI REDDY INSTITUTE OF TECHNOLOGY FOR WOMEN

(Approved by AICTE, New Delhi, Affiliated to JNTUH, Accredited by NBA)

Ananthasagar (Vill), Hasanparthy (M), Warangal.

2022-23



Rajam

PRINCIPAL

Sumathi Reddy Institute of Technology for Women
Ananthasagar (V), Hasanparthy (M),
WARANGAL - 506 371 (T.S.)



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

This is to certify that the project entitled “MICROCONTROLLER BASED SMART ALCOHOL DETECTION FOR ROAD ACCIDENT-AVOIDANCE SYSTEM” carried out by the following students of III Year B.Tech in Electronics and Communication Engineering during the academic year 2022-23.

KOLIPAKA SOWMYA

216Y5A0412

THELU POOJITHA

206Y1A0459

SREERAMOJU SUNETHRI

206Y1A0455

KATKURI SUJITH MEGHANA

216Y5A0411

Mr.N.Govardhan

Supervisor



Dr. K. Mahender

Head of Department

PRINCIPAL

Sumathi Reddy Institute of Technology for Women
Ananthasagar (V), Hasanparthy (M)
WARANGAL - 506 371 (T.S.)

ABSTRACT

The main purpose of this project is to develop a system that would detect the amount of alcohol that is consumed by the driver of the vehicle. The proposed system aims at preventing the user from driving when drunk and thereby intends to reduce the number of accidents occurring due to drunk driving. The proposed model is developed using Arduino Uno(microcontroller) and alcohol detection sensor (MQ-3) as its major components. As a safety measure, when the level of alcohol crosses a permissible limit, the vehicle ignition system (DC Motor) will be turned off and the concerned authority will be alerted using the WIFI module.



Rijan

Principal

Sumathi Reddy Institute of Technology for Women
Ananthasagar (V), Hasanparthy (M)
WARANGAL - 506 371 (TS)