# VISVESVARAYA TECHNOLOGICAL UNIVERSITY,

# BELAGAVI– 590 018

**A MICRO PROJECT REPORT ON**

# "SPEED CHECKER FOR HIGHWAYS"

**Submitted By,**


| | |
|---|---|
| Abhishek Naik | 4AL19EC007 |
| Abhishek M O | 4AL19EC009 |
| Ashish Shetty | 4AL19EC020 |
| Megha R | 4AL19EC046 |
| Nadiya N | 4AL19EC047 |


**Under the Guidance of**


**Dr. Mrinmay Mishra**

**Associate Professor**


ALVA'S
Education Foundation®


**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**

**ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY**

**MOODBIDRI-574225, KARNATAKA**


**2020–2021**

# ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY

## MIJAR, MOODBIDRI D.K. -574225

## KARNATAKA

ALVA'S

## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

# CERTIFICATE

This is to certify that the Micro-Project entitled **"SPEED CHECKER FOR HIGHWAYS"** has been Successfully Completed By

| | |
|---|---|
| Abhishek Naik | 4AL19EC007 |
| Abhishek M O | 4AL19EC009 |
| Ashish Shetty | 4AL19EC020 |
| Megha R | 4AL19EC046 |
| Nadiya N | 4AL19EC047 |

The bonafide students of **Department of Electronics and Communication Engineering, Alva's Institute of Engineering and Technology,** affiliated to **VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI** during the academic year 2020–2021. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report. The report has been approved as it satisfies the academic requirements in respect of Micro-Project work prescribed for Bachelor of Engineering.

**Dr. Mrinmay Mishra**
**Micro Project Guide**

**Dr. D V Manjunatha**
**HOD ECE**
H. O. D.
Dept. Of Electronics & Communication
Alva's Institute of Engg. & Technology
Mijar, MOODBIDRI - 574 225

# ABSTRACT

Accidents due to rash driving on highways are on the rise and people are losing their lives because of others mistakes. While driving on highways, drivers should not exceed the maximum speed limit permitted for their vehicle. A highway speed checker comes handy for the traffic police, especially against the speed limit violators because it provides the digital display as well as buzzing sound or alarm to detect any vehicle speed if the vehicle exceeds the permitted speed limit. To overcome this problem, we have implemented a circuit called as a speed checker for highways. This kit is inexpensive and it is used for considering the average and high speed of vehicles that move on the highways or roads. By taking all these considerations in mind, we have designed a highway- speed checker circuit to detect the rash driving by using different electronic components such as timer, counter, logic gates, microcontroller, seven segment display and all other components.