

# **SMART VEHICLE STSTEM**

*A Project report submitted in partial fulfilment of the requirements for the  
award of degree of*

## **BACHELOR OF TECHNOLOGY**

**IN**

## **ELECTRONICS AND COMMUNICATION ENGINEERING**

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**DEPARTMENT OF**

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AVANTHI INSTITUTE OF ENGINEERING & TECHNOLOGY**

**(NAAC Accredited, Accredited by NBA, Approved by A.I.C.T.E.,**

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**2015-2019**

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**CERTIFICATE**

This is to certify that the project entitled “**SMART VEHICLE SYATEM**” in partial fulfilment for the of degree of Bachelor of Technology in **ELECTRONICS AND COMMUNICATION ENGINEERING**, at AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, MAKAVARAPALEM, VISAKHAPATNAM is an bonafied work carried out by M.GANGADHAR (15811A0443), A.ESTHER RANI (15811A0401), G.GIRISH (15811A0423), K.PRAVEEN GIRIBABU (15811A0429), P.RAMPRASAD (15811A0460) under the guidance and supervision during 2015-2019.



**PROJECT GUIDE**  
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## ABSTRACT

The main aim is to reduce road side accidents, drunken driving is one among them. To avoid this problem, we have developed an automatic engine locking system. That is if a person tries to drive a vehicle after consumption of alcohol, the engine of the vehicle will be automatically locked. Using sends a message by using GSM to the registered number.

Drowsiness is the main cause for major accidents which leads to the injuries, deaths and damages. To overcome this problem, we propose a system which uses various sensors. These sensors are used to detect the driver drowsy. The buzzer is used to alert the driver whenever the driver feels drowsy. When ever the sensor values are not in the range of threshold value, the motor stops. In case of emergency, the information is sent through GSM to the particular person or in charge ward. All these sensor operations are controlled by Microcontroller. With the help of this system, the major road accidents can be reduced by alerting the driver.

Around the world main cause of the motor vehicle accident are over speeding. Despite of many traffic rules like speed zone, stopping at traffic light etc. people simply avoid them. Despite of national road safety strategy and law on speed limit 3 out of 10 accidents cause due to over speeding. Hence we are proposing an Automatic speed control method to reduce the speed of the vehicle in given zone. The speed of the vehicle will not increase above given limit. In this method we are using IR sensor to detect over speeding and thus it will reduce the speed to a given limit. A led display will be provided to show the speed zone so that driver can control the speed itself. We are also proposing an Automatic challana system with the help of GSM module. If driver will over speed after warning, a massage will be sent to drivers registered number and nearest police station that vehicle has crossed the speed limit and automatic challana will be generated. The model was tested on a brushless dc motor to check whether the speed of the motor is varying with speed zone. After starting the system we observed that speed of motor is varying speed zone.