

## ROAD SAFETY SYSTEM BASED ON ARDUINO BUILT WITH EYE BLINK SENSOR

*Kubendran. N*

*Research Scholar, Department of Mechatronics, Jeppiaar Engineering College, Chennai, Tamilnadu, India*

**Received: 08 Jun 2022**

**Accepted: 10 Jun 2022**

**Published: 11 Jun 2022**

### **ABSTRACT**

*The proposed project helps prevent vehicle accidents due to sleep and drunken driving, using eye blink sensor. Eyeblink sensor that would be inbuilt in the driver's spectacles detects the frequency of eye blinking. The driver will be alerted through inbuilt vibration. The project is implanted by using arduino programming. Through GSM module alert message will be sent to driver's emergency number and Government record. Which will help the government to take necessary steps on the drowsy drivers.*

*The drowsiness is identified by the eye blink closure and blinking frequency through eye blink sensor worn by driver by means of spectacles frame. If the driver is drunk then the buzzer indicates and the vehicle doesn't allow the driver to start the vehicle. If the driver is drowsy, then the system will give buzzer signal and the speed of the vehicle is reduced.*

**KEYWORDS:** *Road Safety.*