

**Visvesvaraya Technological University**

**Belgaum, Karnataka-590 014**



**A Project Report on**

**Automatic Speed Control and detection of Gas  
leakage of Vehicle using EYE Blink and Gas sensor**

**Project Report submitted in partial fulfillment of the requirement for the  
award of the degree of**

**Bachelor of Engineering in Mechanical Engineering**

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## ABSTRACT

Remote Surveillance System for Driver Drowsiness is the driver monitoring system. The system captures driver's eye movements by means of eye blink sensor to monitor driver attentiveness.

Our Embedded project is to design and develop a low cost feature which is based on embedded platform for finding the driver drowsiness. Specifically, our Embedded System includes an eye blink sensor placed on the steering column which is capable to capture the eye movements. If the driver is not paying attention to the road ahead, driver drowsiness is detected, the system will warn the driver by vibrating the driver seat and also by giving the warning sounds (Pre-Recorded) and if the driver is still not paying attention to the road ahead the vehicle speed will be reduced automatically and parked to the left side of the road by turning on the indicator light, before taking left turn the system senses for vehicle movements at its left and allows it to pass if any. The captured information goes to the owner's mobile as SMS through GSM module. This system also detects the gas leaking in Vehicle. If gas is leaking this system start to announce voicely **"The gas is leaking"** and the information goes to the owner's mobile as SMS through GSM module.