# INSTANCE VEHICLE MONITORING AND TRACKING WITH INTERNET OF THINGS USING ARDUINO

Dhanalakshmi[1]* A.Ezil Sam Leni[2]

[1]PG Studen, Department of CSE, Jeppiaar SRR Engineering College, Chennai, India,

dhanamesrr@gmail.com

[2]Professor & Head, Department of CSE, Jeppiaar SRR Engineering College, Chennai, India,

Email: lenisatish@gmail.com

*Abstract- The Vehicle Tracking System has the capability of finding the Vehicle location, Gas Leakages, Vehicle Speed, and Vehicle Accident and at the same time notifies the owners of the vehicle through a GSM network with an SMS alert message. The drivers require their presence to their family or to their respective one's. The main aim is to design a low cost and an efficient vehicle tracking and vehicle security circuit based on an Arduino microcontroller. This system can be made as a backup sector inside the vehicles to prevent them from stolen and easy to identify the location and prevent from other disaster factors. The main methodology of the device is to monitoring the vehicle speed via Ethernet shield through Internet of things. The protective system is maintained by analysing gas tank through gas sensor which details about the gas leakage. The advantages of this device are alarming the driver when there is any gas leakage in the vehicle and also informs about the speed of the car. A vibrating sensor is used to alert when the vehicle is struck with some accident by sending SMS to the required people via GSM Modem and all the data which can be viewed by the driver can be viewed by the people in home via Ethernet device.*

**Index terms: VibrationSensors, MQ2 Gas Sensor, IOT, Microcontroller, Vehicle tracking, Vehicle security.**