

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

‘JNANA SANGAMA’, BELGAUM – 590018

KARNATAKA



PROJECT REPORT

ON

**“REAL TIME VEHICLE TRACKING AND MONITORING SYSTEM
USING GPS AND GSM”**

**Sponsored by Karnataka State Council for Science and Technology
(KSCST), Indian Institute of Science (IISc), Bangalore**

**SUBMITTED IN PARTIAL FULFILLMENT OF THE
REQUIREMENTS FOR THE AWARD OF THE DEGREE.
BACHELOR OF ENGINEERING
IN
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ABSTRACT

The fuel and maintenance costs of vehicle transportation systems are increasing rapidly day by day and the vehicle owners have to spend some extra money for this crisis. Hence fuel monitoring systems are very essential as a solution tracking systems using GPS devices can be implemented by fleet owners and transporting companies to keep their vehicles tracked and to monitor their activity. Tracking systems can also reduce the chances of vehicle theft and misuse of vehicles to a great level.

Tracking helps to manage trucking, cabbage and shipping more efficient. This device allows monitor the locations of the trucking fleets and better schedule pick-ups. Tracking devices using GPS systems offers an efficient and economic method to the users, who need only provide suitable receivers to obtain precise coordinates and other related information, using the GPS satellite system. Methods for vehicle monitoring form an integral component of Intelligent Vehicle-Highway Systems (IVHS) technology, with many IVHS applications requiring information on the real-time location of vehicles.

This proposal deals with the use of GPS and GSM as a method for obtaining information on the position, speed and direction at which the vehicle is traveling, monitoring information's such as fuel range, maximum speed reached. This coupled with database management using Geographic Information Systems software, which can provide a reliable and efficient system for vehicle monitoring, navigation and tracking, such as percentage stopped time and speed of a probe vehicle circulating in a network could be known in real time, a GSM module can be used in receiver section for transmitting the important data to the logistic dept and to the customer via SMS. Hence this project describes vehicular communication using GSM/GPS technologies. The data on these vehicle tracking systems are transferred either through SMS or GPRS.