



# NARNARAYAN SHASTRI INSTITUTE OF TECHNOLOGY

(Department of Electronics & Communication)

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## Project Title:- advance vehicle control system

### Abstract:-

Now a day number of accidents of vehicles are increasing a lot. Major of the accidents are occurred due to drivers improper behavior (Ex: suppose the driver is drunk) to prevent it up to some extent we can implement a monitoring and control system for driver's behavior.

Driving behavior models explain and predict the behavior of drivers. In this system embedded system plays a major role. This system consist of embedded system, alcohol sensor, heart beat sensor, eye blink sensor , accident sensor, GSM module and other sensors like finger print sensors etc.

So, if the driver is drunk or his heart beats are high , the GSM based messaging service sends a messages to listed numbers and as well as it will not allow the person to access the vehicle any more .

Here we are controlling the gear system of car. So when it is found that driver is drunk or his heart bit rate is abnormal then the gear of car will automatically come into neutral position. And person is not allowed till the satisfactory condition is detected.

Major Hardware components used:- alcohol sensor MQ3,gsm sim 900a,uln 2003a,max232 ic,

Software used:- MP LAB IDE V 8.88, Proteous v7.61

### Project Application:-

- (1)use in four wheeler for safety.
- (2)safety for cardiac patient.
- (3) accidents of vehicles are decrease a lot.

Approx. Project Cost:-10000

### Project Photo:-



### Block /circuit Diagram:-

