**Cost Minimization of GPS - GSM Based Vehicle Tracking System**

**Summary**

**Basic Working**

In this project they have used GPS Module, GSM module and micro-controller. So, GPS module send the co-ordinates to the micro-controller and micro-controller read the vehicle co-ordinates and the sent the SMS using GSM module. Then, Contentiously you will see the longitude and latitude value on the display and after particulate interval of time it send the SMS to the vehicle owner.

In this paper they have mainly used GPS and GSM system

**GPS Module -**

Global Positioning System (GPS) is a satellite-based navigation system that analyzes your location,velocity and time synchronization GPS helps you get where you are going from point A to point B .

**GSM Module -**

GSM it’s a global system for mobile communication in short GSM is a SMS based module .

**Android Application -**

Android Application This application program continuously measures the GPS coordinates of the smart phone When a position request SMS is received, the application program checks the identification number of the sender. If it is a not valid server ID, then the message is ignored .

**Micro-controller -**

The micro-controller is programmed using the Micro C programming language to enable the communication between the PC and the GSM shield. In both manual and periodic modes, the micro-controller encapsulates the code that comes from the PC, in an SMS form and sends it to the intended smart phone that is identified by its number. Then, the micro-controller waits for the response SMS.