

VISVESVARAYA TECHNOLOGICAL UNIVERSITY BELGAUM



A Project Report on

**“DESIGN OF MANUMATIC GEARED VEHICLE USING GSM
BASED SECURITY SYSTEM WITH LOCANTO BLACK BOX”**
(SPONSORED BY KSCST-35, BANGALORE)

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ABSTRACT

In today's world, there is a great demand for application that can remotely control an electrical or electronic device. Over the last decade, the implementation of this concept has been attempted by using power – line modems. However, these solutions are not only complex but also require a physical connection to access those devices. A simple, cost – effective solution is proposed here, by which devices as mentioned above can be controlled remotely while the user is anywhere across the globe.

Short Message Service (SMS) is a mechanism of delivery of short messages over mobile networks that are widely spread across the globe. In our proposal, the commands to control the devices will be sent through SMS to a GSM Modem connected to a Micro controller. After receiving the SMS, the Micro controller will analyze the received data and then Micro controller will make high or low the status of its I/O port. Therefore, by sending appropriate data via SMS, the devices can be switched ON/OFF remotely. Also, receiving SMS from the remote receiver can check the operating status of the controlled devices.

GSM modem has been used for communication with the owner of the product. Owner and users can control the operation of the devices connected to the product from a faraway place. It is possible by sending a text message in the predefined format to the GSM modem, SIM card is used in the modem. Whenever owner sends a valid SMS to the GSM modem (Mobile number of this SIM card), the message is read and verified for password and valid command. If the text message is in the predefined format and the password matches with that of the stored password, then appropriate action will be taken by the microcontroller based on the request made. Similarly whenever a security problem occurs, it will be informed to the owner of the product, by sending an SMS to his/her mobile.

GSM modem can be controlled by standard set of AT (Attention) commands. These commands can be used to control majority of the functions of GSM modem.