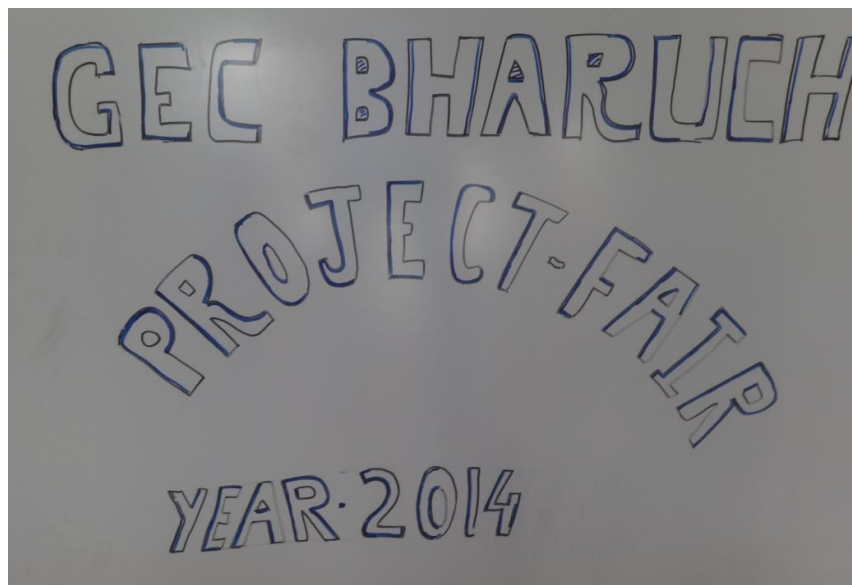# Project Fair

At

Electronics and Communication Department

Government Engineering College, Bharuch

Date 2nd May 2014

Electronics and Communication department of Government Engineering College, Bharuch had been organized a fair for the demonstration of all the project developed by the final year student. Final year student of EC department had developed many innovative project which can be useful for the industries as well as society. Project like Automatic Garbage vehicle notification is highlighted by the leading **news paper Times of India dated 5th May-2014.**
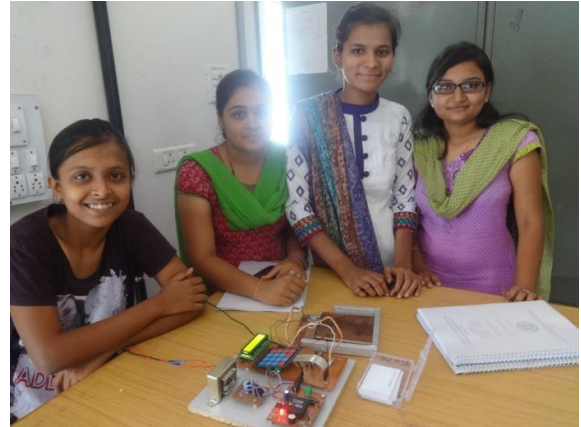
Student of the 6th semester and 4th semester and student from the other institute also visited the fair and gain the knowledge by discussing the project with their senior. Many student of the prefinal year got the idea about their final year project from the fair.

Head of the EC Department Prof. K G Bhuva taken a visit of the fair and given a useful advice to the student. All the projects are evaluated during the day by the judge Prof. M A Jajal and Prof S J Dawda as per the GTU scheme.

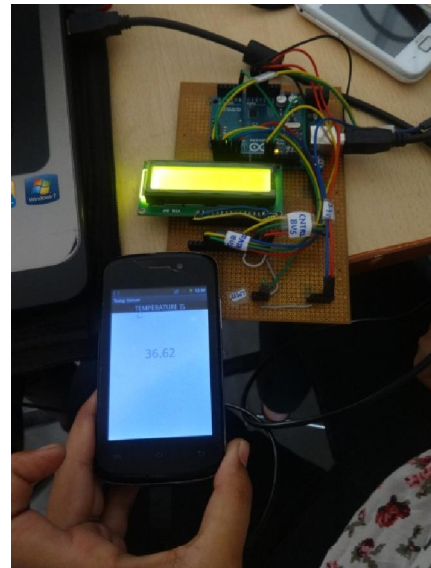**Project Demonstrated During the Fair**

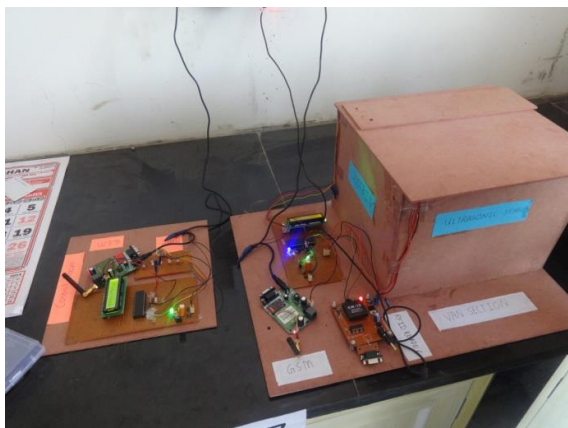RETINA BASED SCREEN SCROLLING

Automatic gate opening system for vehicle with RFID

GSM BASED MOTOR CONTROL USING PLC

Body Temperature Measurement using Hand-held device

AUTOMATIC NOTIFICATION OF GARBAGE COLLECTING VAN USING RF / GPS AND GSM MODULE

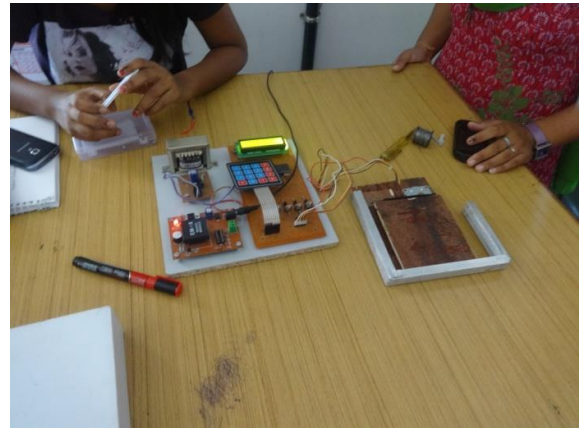Automatic Multilevel Vehicle Parking System using RFID

AUTOMATED MENU ORDER AND BILLING DISPLAY SYSTEM IN HOTELS/RESTAURANTS

ADVANCED SECURITY SYSTEM FOR ATM WITH TRACKING AND SMS INDICATION
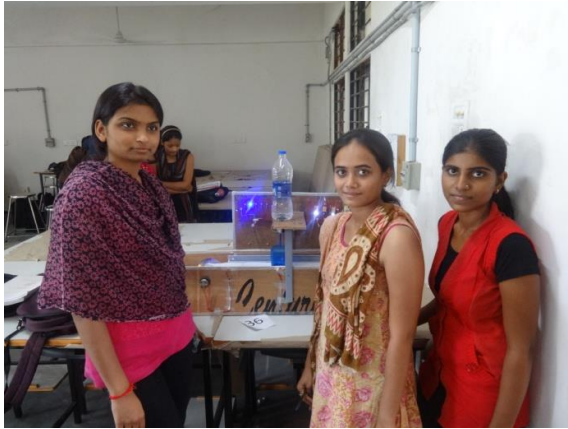

INTELLIGENT HELMET FOR COAL MINERS

Automatic gate opening system for vehicle with RFID

EYE TRACKING SYSTEM TO AVOID ACCIDENTS IN MINES

Intelligent Traffic Light And Density Control Using IR Sensors And Microcontroller
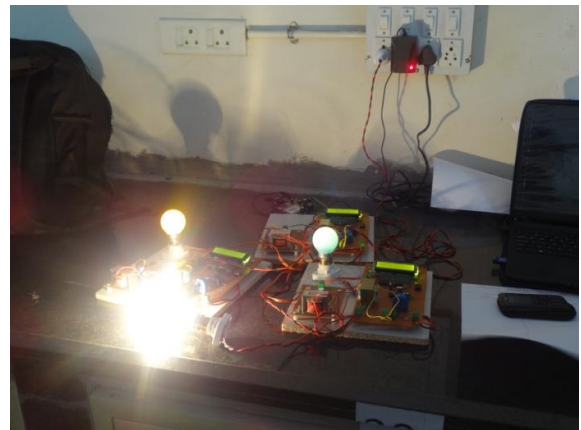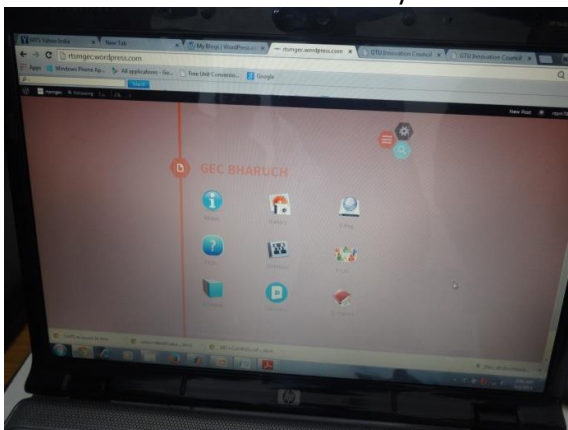
PLC based automatic oil filling machine

IMPROVE VISION OF TRAVEL SYSTEM FOR BLIND PEOPLE

Smart card based bank security for lockers

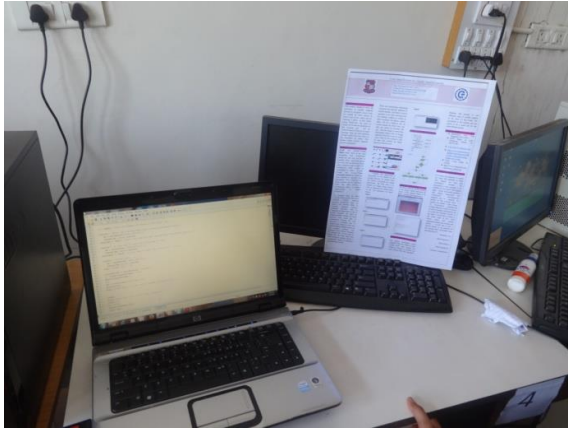Wireless energy theft meter using gsm

Update College Website ANDROID APPLICATION

Wi-FI BASED SPPED CONTROL OF 3-PHASE INDUCTION MOTOR THROUGH PLC AND SCADA

Update College Website ANDROID
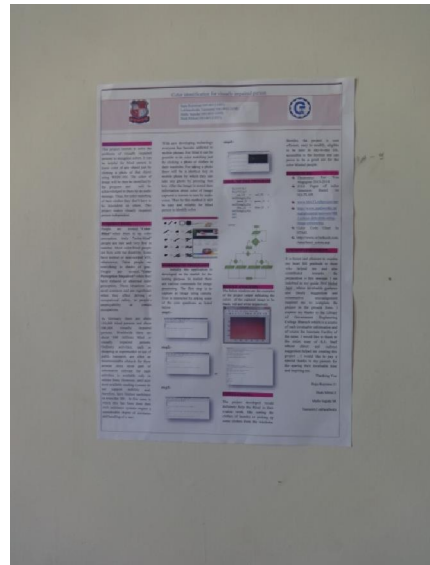APPLICATION

WATER FALL GRAPHIC PRINT

Street power monitoring and analysis by PC &
GSM

Update College Website ANDROID
APPLICATION

GSM BASED MOTOR CONTROL USING PLC

Update College Website ANDROID APPLICATION

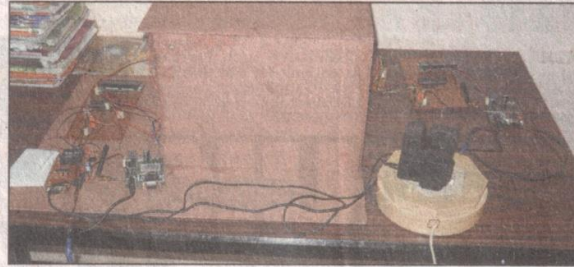# Budding engineers design project to track garbage vans

Prashant Rupera | TNN

A prototype of the project designed by students

Vadodara: Urban cities like Vadodara have often witnessed residents complaining of garbage collecting vans not reaching their localities. Now, a group of budding engineers from Government Engineering College, Bharuch has designed a project that can track location of garbage vans and ensure that garbage is collected properly from every nook and corner of such cities.

The engineering students have used radio-frequency identification (RFID), global system for mobile communication (GSM), ultrasonic sensors and infrared photo sensors technologies to design the garbage vehicle tracking system.

"Civic bodies involve agencies to collect garbage from different localities. The collected garbage is supposed to be sent for recycling or is to be dumped outside the city. But lack of monitoring is leading to a situation where the garbage is not collected on a regular basis and citizens dispose their trash in nearby areas," says final year electronics and communication student Mayank Gupta, who along with three other students — Bhaumil Patel, Neel Harshe and Dharmesh Agrawal designed the project under guidance of professor Sandip Dawda and Mayank Chawda.

"The project has been designed in a way to track the garbage vans to ensure that they cover their routes on a daily basis. Also there are sensors placed in the carriage of the vans to keep an account on the minimum average garbage collected on a daily basis," says Gupta.

A RFID reader is connected in the garbage vans and RFID tags with different trash bins. Whenever the van reaches a particular street, its location gets detected with the help of RFID technology and a LED. The control room is alerted by the blinking signals. This assures that the staff has reached the particular street.

Also, ultrasonic sensor helps proper detection of garbage collection by giving accurate measures of the actual garbage collected in the vans. "This information is sent to the control room with the help of GSM technology. We have used two GSMs- one in the van and another in the control room where an officer can send signal to the staff for proper monitoring," adds Gupta.

The project paper titled 'Automatic Notification of Garbage Vehicle Tracking System' has also got published recently in the International Journal of Engineering Development and Research.

Project Highlighted by Leading Newspaper Time of India