

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

“Jnana Sangama”, Belgaum-560014, Karnataka



A PROJECT PROPOSAL ON

**“Deployment of GSM and RFID Technologies for Bus Tracking,
Monitoring and Passenger Density Detection System”**

**Bachelor of Engineering
in
Computer Science & Engineering**

Submitted By

ARUN KUMAR C (1SV09CS009)

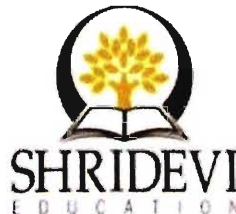
BHANUPRAKASH P (1SV09CS013)

IRSHAD AHMED (1SV09CS030)

POORNIMA U (1SV09CS067)

Under the guidance of

**Mr. Manohara.P.H. B.E, M.Tech.,
Sr.Lecturer, Dept of CSE, SIET.**



Department of Computer Science and Engineering

SHRIDEVI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Affiliated To Visvesvaraya Technological University)

Sira Road, Tumkur – 572 106, Karnataka.

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ABSTRACT

One of the major problems faced by public transport systems is low occupancy rate. One reason for this is that a passenger normally does not know the public vehicle scheduling information and its arrival timing information at predefined stops. Thus, it is possible to motivate a passenger to opt for public vehicles having predefined routes by providing the vehicle location and time of arrival at respective stoppage.

There are lots of efforts being made by public transport corporations to improve public vehicle occupancy by requesting the public to use public transportation. It can be noted that if the passenger knows with high confidence that the bus is going to come, he/she will wait rather than opting for other modes of transport. Efficient information can therefore help the users to choose faster and easier connections which saves their time. Trends in wireless technology like Global System for Mobile communication (GSM) and Radio Frequency Identification (RFID) have resulted in easier and faster communication.

This project presents a bus tracking system by integrating both of the above mentioned technologies and suggests a new cost-effective way for tracking a vehicle in public transport domain. Real Time Clock (RTC) is provided to keep the track of time. The AT89S52 controller is used as a main module. The GSM and RFID technologies to track the vehicle and its information. LCD unit in the bus stops will display the information to commuters standing in the bus stops. It informs the administrator as well as the passenger whether the bus is arriving on time, early or late. It will also be able to inform passenger of their bus arrival. It is completely integrated so that once it is implemented in all vehicles, then it is easy to track vehicles any time.