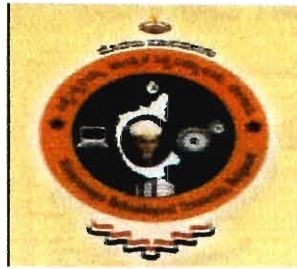


**VISVESVARAYA TECHNOLOGICAL UNIVERSITY
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(An autonomous Institute under VTU, Belgaum)



Department of Instrumentation Technology

A Project Report on

Advanced Tracking System

(Approved and Sponsored By K.S.C.S.T)

Under the Guidance of

Prof. Subhas Meti,

Dept. of Instrumentation Technology

Submitted By

Shridhar S Y

Vijaykumar C B

Vinaykumar G A

Vishal V D

USN:

2BV08IT093

2BV08IT113

2BV08IT118

2BV08IT119

DEPARTMENT OF INSTRUMENTATION TECHNOLOGY

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ABSTRACT

This project is intended to detect the live humans under the debris in case of earth quake or other calamities and tell the exact location which helps in rescue operation. It also designed to detect the collision of objects that may be the vehicles accident and send the location details to the nearby hospital or police control room which helps in providing necessary aid in time. Another aim of this project is metal detection such as landmines hidden under earth and send location such applications are useful in military.

This proposed work is an attempt to design a tracking unit that uses the global positioning system to determine the precise location of an object, person or other asset to which it is attached and using GSM modem this information can be transmit to remote user. This system contains single-board embedded system that is equipped with GPS and GSM modems along with MICROCONTROLLER (89C51) processor. During object motion, its location can be reported by SMS message. The use of GSM and GPS technologies allows the system to track object and provides the most up-to-date information.

The purpose of this system is to design and integrate a new system which is integrated with GPS- GSM to provide following feature: a) Location information, b) Real time tracking Using SMS, c) Detect and track live humans, Metals and collision between Vehicles.