

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

BELGAUM 590 014



A REPORT ON PROJECT WORK

“MOBILE TELEMEDICINE”

(Sponsored by Karnataka state council for science and technology)

Submitted in the partial fulfillment of the requirements for the award of the degree of

BACHELOR OF ENGINEERING in **ELECTRONICS AND COMMUNICATION**

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PROJECT GUIDE

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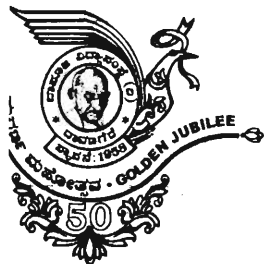
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2010-2011



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ABSTRACT

The project aims at providing aid to the patient during the time of emergency as fast as possible. The objective of the Mobile Telemedicine System (MTS) project was to determine the feasibility of transmitting real-time vital signs data and video images from enroute ambulances to the receiving trauma centre via digital cellular communications. The goal was to improve the quality and timeliness of care provided during the pre-hospital transport phase of the “golden window” immediately following insult or injury and to provide better information to the emergency department staff prior to arrival at the hospital.

When the car meet with an accident the sensor will first detect the impact and if the impact is more than the threshold then it will send some information to the Microcontroller which in turn communicates with GPS. GPS sends the location of accident and the car no to the server. The server will then find the location of the nearby registered Hospital depending upon the information sent by the GPS and then send the information to the hospital about the accident with the phone no. of the client.

The transmission is performed through GSM mobile telecommunication network, through satellite links (where GSM is not available) or through Plain Old Telephony Systems (POTS) where available. Using this device a specialist doctor can telematically "move" to the patient site and instruct unspecialized personnel when handling an emergency or tele-monitoring case.