

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY
BELGAUM-590014**



A REPORT ON PROJECT WORK

GSM BASED LUGGAGE SECURITY SYSTEM

(Sponsored by Karnataka State Council for Science and Technology (K.S.C.S.T), Bangalore)

Submitted in 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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ABSTRACT

The objective of this project is to develop an advanced luggage security system by using SMS, to inform about the status of the luggage to the owner.

The project makes use of an integrated IR Transmitter Receiver circuit and it has IR diodes which sense any object about certain range. We also make use buzzer alarm to get instant alert from the system if any attempts are made in stealing luggage. The microcontroller checks the output from IR sensor and then alerts the user by starting buzzer alarm and as well as sending an SMS through GSM modem.

The design is flexible as the software can be changed any time. It can thus be tailor-made to the specific requirements of the user. This makes the proposed system to be an economical, portable and a low maintenance solution for security applications.