

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY**

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**A  
Project Report  
On**

**“A SECURE ATM SYSTEM USING DELAY CONSTRAINT  
AND GSM MODULE”**

**SUBMITTED IN PARTIAL FULFILLMENT OF THE REQUIREMENTS  
FOR THE AWARD OF THE DEGREE**

**BACHELOR OF ENGINEERING  
IN  
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## **ABSTRACT**

An ATM (Automated Teller Machine) is an electronic device which allows a bank's customer to make cash withdrawals and check their account balance at any time without the need for a human teller. Current ATMs fails to enforce security for physical attacks. Henceforth physical attacks is been increasing rapidly. This paper presents a method to prevent such attacks by using some of the enhanced technologies.

The aim of the project is to use delay constraint method, When a user enters into an ATM the timer starts. For all the users giving some delay constraints (ex. 4minute). If the user comes out from the ATM within a particular delay time, such user is a normal user. If the user exceeds delay time, immediately server will send alert message to specified bank.

Obstacle sensor is used to keep track of persons entering inside the ATM, Perhaps only one person should enter. Microcontroller is used to send the sensed data to the server whenever it detects the head motion of a person so that we can keep track of persons entering inside an ATM. GSM is used to send a SMS if any abnormal condition (such as if more than one person enters inside the ATM and if the user exceeds the time limit) to the corresponding bank.

This paper demonstrates some of the remedies that can be deployed to reduce the physical attacks to some extent.