**ATM SECURITY WITH RFID AND ONE TIME PASSWORD (OTP)**

**AIM:**

The main aim of this project is to design **“ATM security system with RFID and GSM technology”.**

# EXISTING METHOD:

Present transaction system of ATM will provide one ATM card for swiping with a password. But password hacking is being done by means of some hardware below ATM keypad. The message will be sent to Card holder only after transaction of money. This may lead to a huge loss to card holder and this system is not well secured.

**PROPOSED METHOD:**

With the improvements and advancements in the technology we can provide solution to above drawbacks of existing systems. In the proposed method we are making use of RFID & GSM technology providing RFID Tags in place of ATM card for card holder and account identity. Assurance will be done with the card holder via a sms before transaction.

**DESCIPTION:**

In this system we are using RFID with microcontroller. Whenever a person wants to do transaction with the ATM, he needs to show the RFID tag. RFID reader will read the information from the tag and to person’s mobile number one OTP message will be sent informing that your card is being used via GSM. The person needs to enter the password using keys while was received by SMS then the transaction is allowed else in wrong password entry the controller will cancel transaction of the card.

**BLOCK DIAGRAM:**

**POWER SUPPLY**

**MICRO**

**CONTROLLER**

**(8051)**

**LCD**

**GSM**

**RFID READER**

**KEYS**

**BUZZER**

**SOFTWARE TOOLS :** Keil Uvision, ISP.

**TARGET DEVICE :** Micro controller Board, GSM

**ADVANTAGES:**

* More secure
* Instantaneous action

**CONCLUSION:**

With this project implementation we can provide the enhanced secure system for ATM transactions.