**AUTOMATIC VEHICLE RC BOOK & DRIVING LICENSE VERIFICATION**

**AIM:**

The main aim of this project is to design a automatic verification system.

**PURPOSE:**

The purpose of this project is to design a prototype to implement the verification of RC book and driving license using rfid technology.

**TRAFFIC SECTION:**

**MICRO CONTROLLER**

**AT89S52**

**RFID READER**

**LCD**

**16x2 LINES**

 **POWER SUPPLY**

**TRAFFIC SIGNALS**

**BUZZER**

**VEHICLE SECTION:**

 **TAG 4**

 **TAG 2**

 **TAG 3**

 **TAG 1**

**DESCRIPTION:**

In this project, there is one rfid reader at every signal. And every vehicle is provided with rfid tag. Whenever the vehicle passes through this reader then the reader takes the data from the rfid tag and sends that information to the microcontroller. Here we are using at89s52 microcontroller. Here it will check whether it is valid vehicle or not. Then after that it will check whether the vehicle contains license or not. If not then the buzzer will ring. Then certain action will be taken. Similarly with the RC book verification.

**RFID:**

RFID is an acronym for *Radio Frequency Identification.* In general terms, RFID is a means of identifying a person or object using a radio frequency transmission. In other words RFID is an electronic method of exchanging data over radio frequency waves. The technology can be used to identify, track, sort or detect a wide variety of objects.

There are three major components of an RFID system: the reader, the antenna, and the tags. Each tag is associated with a unique number. When a tag is in the detection range of the reader, the number is read. Two types of tags can be found: active tags with a longer detection range and passive tags with a shorter detection range. An RFID tag is usually attached to an object and the information of the object along with the RFID number are recorded in the database. Whenever the RFID tag is sensed, the object can thus be identified.

**SOFTWARES:**

1. Embedded C
2. Keil µvision
3. ISP
4. Express PCB

**HARDWARE COMPONENTS:**

1. Microcontroller( AT89S52)
2. Power supply
3. RFID reader
4. RFID tags
5. Motors
6. LCD display (16\*2)

**RESULT:**

By this project we can design a prototype to implement the verification of rc book and driving license using rfid technology.