**FINGER PRINT BASED VOTING SYSTEM**

**AIM:**

The main aim of the project is to design and develop an anti-rigging voting system which is implementing using smartcard technology.

**PURPOSE:**

The main purpose of the project is to implement a security system in voting during elections time.

**VOTING SECTION:**

**MICRO CONTROLLER**

**AT89S52**

**POWER SUPPLY**

**LCD DISPLAY**

**(16 X 2 LINES)**

**EEPROM**

**FINGER PRINT MODULE**

**KEYPAD**

**BUZZER**

 **MAX 232**

**Power Supply:**

**STEP DOWN**

**TRANSFORMER**

**BRIDGE**

**RECTIFIER**

**FILTER**

**CIRCUIT**

**REGULATOR SECTION**

**DESCRIPTION:**

The main objective of this project is to design an anti-rigging voting system which is implemented using finger print technology. A person finger print is used as a voter id card which provides authentication and identification for a person.

In this project microcontroller is used which forms the control unit. Every citizen of India is assigned and provided with a finger print. Whenever user wants to vote he needs to provide his enrolled finger print in finger print reader while voting. If the provided finger print is a valid recognition then the voter is asked to vote for his favorite candidate through keypad. So, user needs to press the key corresponding to the candidate that he wants to vote. This is displayed on LCD. This system even allows the election commission to see the no. of votes given for each candidate and is displayed in LCD which got interfaced to microcontroller. If the finger print recognized is an invalid or the voter wants to vote again then it checks and compares the information with data in the memory, if it is not a valid one then buzzer will buzz. This project finds its place in places where one wants to provide authentication with great security.

**HARDWARE:**

1. Micro controller (AT89S52)
2. Finger print module
3. MAX 232
4. LCD Display
5. Keypad
6. Power supply
7. EEPROM
8. Buzzer

**SOFTWARE:**

1. Kiel U vision
2. Express PCB
3. ISP

**RESULT:**

By using this we can implement anti-rigging voting system which uses smartcard technology.