**BABY PRESENCE DETECTOR & WARNING SYSTEM IN CAR**

**AIM:**

The main aim the project is to design “A CHILDLEFT BEHIND ALERTING SYSTEM BASED ON CAPACITIVE SENSING PRINCIPLE”.

**EXISTING METHOD**:

Once a car is turned-off and parked, keeping its window glass closed, the temperature inside the car increases rapidly even on a day with atmospheric temperature of about 21degree centigrade. As the thermoregulatory system of the child’s not well developed, this condition may lead to heatstroke which can be fatal. As we know, the child entire depends on elders but, unknowingly, in a busy schedule, the driver or passengers may forget to take the child in the front seat, usually kept in a back seat of the car. Such incidents can be prevented by sensing the presence of a child soon after a car is turned-off & the generating/sending a suitable warning signal to the driver or parents.

**PROPOSED METHOD:**

Here we proposed a simple and compact capacitive sensor that can be placed in front seat to detect presence of a child. The proposed system also has a vehicle ignition monitor to confirm presence of driver inside a car. It also has a temperature inside the car. A GSM modem is used to alert driver/parents/guardians as soon as a child left in the car in front seat is detected and the car is found to be turned-off. Principle of operation of the capacitive sensor, measurement scheme employed details of the prototype sensor and warning system (through SMS or Voice announcement) developed and tested.

**BLOCK DIAGRAM:**

**POWER SUPPLY**

**LCD DISPLAY**

**(16\*2 LINES)**

**MICRO CONTROLLER**

**(8051)**

**GSM**

**PIR SENSOR**

**IGNITION SWITCH**

**IR SENSOR**

**SOFTWARE :** Embedded ‘C’

**TOOLS :** Keil IDE, ISP

**TARGET DEVICE :** 8051

**APPLICATIONS :** Industrial areas, Coal mine environments, Leakage environments.

**ADVANTAGES :** low cost, long distance networks