# SMART PARKING

## Domain: Internet of Things

## PROJECT OBJECTIVES:

Smart Parking system consists of Module that is used to monitor and allocate the availability of Parking space to facilitate the Public.

Mobile and Integrated app is developed which allows the user to check the status of parking space in remote which helps the users for Parking.

The Parking information is sent to the Users, respective authority, through GPS unit, Wi Fi module and IOT.

## IOT SENSOR DESIGN:

In the Smart parking system sensors such as Infrared and Ultrasonic sensors are used to sense the parking area and thus, determines the availability of Parking slot.

The IR Sensors sends the signals to the controller according to the presence of the vehicles.

## REAL TIME TRANSIT INFORMATION PLATFORM:

The mobile app developed will act as the interface between the user and the hardware system.

The Purpose of this mobile app is to provide information regarding availability of Parking space and facilitate the user to park the vehicles accordingly.

# INTEGRATION APPROACH:

The sensors are connected to the Raspberry Pi and Data is transferred through IO Pins Data collected from various sensors is sent to Raspberry pi through Wi Fi chip.

The Mobile app developed is subscribed to the appropriate server to ensure proper Communication with Rraspberry Pi.