



# MUTHAYAMMAL ENGINEERING COLLEGE

An Autonomous Institution,  
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## IBM (Nalaiya Thiran) Project Ideas 2022

### **SHALINI (MECR19EC091)**

#### **1) Intelligent Traffic Information System**

##### **Description:**

A real time traffic information collection and monitoring system for improved road transportation is the objective of this problem statement. The architecture of the system employs Internet of Things (IoT), Sensor Network, RFID, GPS, cloud computing etc. The proposed system is based on IoT and the data collected from large number of sensors and RFIDs is transmitted wirelessly. IoT helps in improving traffic conditions, safety, efficiency and cost of implementation.

#### **2) Automated Public Transportation System with e-Billing for the Smart Cities**

##### **Description:**

In public transportation system at present we use paper tickets which are printed by a small machine with a key pad. In this system we don't know the details of passengers who are using the public transport. The system requires user details in order to provide security during identification process. The details are also required in order to provide notifications via SMS to the user. The problem statement is automatic ticketing with e-billing through IoT technologies.

### **3) Automatic Path Navigation for the Wheel Chair/ Vehicle.**

**Description:** The objective of this theme is to develop an intelligent wheelchair system to support safe mobility for disabled or elderly people with various impairments. This model must have two main functions: obstacle detection and avoidance, and situation recognition.

### **4) Driver-less Car.**

**Description:**

The objective of this problem statement is to develop a prototype model of an autonomous car or driverless car that uses a combination of sensors, cameras, radar and artificial intelligence (AI) to travel between destinations without a human operator.