LITERATURE SURVEY

Team ID	PNT2022TMID22821
Project Name	Smart Waste Management System for Metro Politian Cities
Maximum Marks	

S. No	Title of the Paper	Author Name	Project Description
1.	Smart Dustbin-An Efficient Garbage Monitoring System	Monika K A, NikithaRao, Prapulla S B, Shobha G.	Garbage Monitoring system, which monitors the garbage bins and informs about the level of garbage collected in the garbage bins via a web page. It shows the System Architecture, in which system uses ultrasonic sensors placed over the bins to detect the garbage level and compare it with the garbage bins depth. The proposed system uses Arduino family, microcontrollers are based on a 16/32- bit ARM7TDMI-S CPU, LCD screen, Wi Fi modem for sending data, a buzzer, GSM, Ultrasonic Sensor. IOT Based Smart Garbage Monitoring System, in which dustbins are interfaced with microcontroller-based system having Ultra sonic sensors with wireless systems. These wireless systems central system showing current status of garbage, on mobile web application with connected via Wi-Fi. This proposed system implemented using ultrasonic sensor, microcontroller and Wi-Fi module. A network is established using wireless sensors, which are placed in the garbage bin, set at a particular level. Sensors will send a signal to the nearest vehicle driver if the level of garbage is crossed to set level. It shows the Architectural Diagram, which consists major three modules; Sensor Module, in which sensors are used to sense the garbage levels once and connected to the Arduino board, Communication Module, in which Bluetooth is used for communication between the sensors and Arduino Uno board, and last module is Analysis and Monitoring Module, in which collected is sent to the admin for analysis.

2.	IoT Based Waste Management for Smart City	Parkash, Prabu V.	IOT Based Smart Garbage Monitoring and Air Pollution Control System, in which system monitors the garbage bins and informs about the level of garbage via a web page. In this system two ultrasonic and two gas sensors are used for level of garbage and harmful gases in the air respectively. Sensors are connected to the AVR family microcontroller (ATmega328) which is interfaced with LCD display which shows the status of bins and Wi-Fi module (ESP8266) is used to transmit data for webpage applications, which is a self-contained SOC with integrated TCP/IP protocol stack.
3.	IoT Based Smart Garbage System.	T. Sinha, R. M. Sahuother.	IoT Based Smart Garbage System which indicates directly that the dustbin is filled to a certain level by the garbage and cleaning or emptying them is a matter of immediate concern. This prevents lumping of garbage in the roadside dustbin which ends up giving foul smell and illness to people. The design of the smart dustbin includes a single by ultrasonic sensor which configured with Arduino Uno with this research, it is sending SMS to the Municipal Council that particular dustbin is to overflow.
4.	An IoT based garbage monitoring a disposal support system	T. M. N. Vamsi, G. Kalyan Chakravathi, B. Divakar Protibha.	This system monitors garbage bins located at different locations and notifies about the level of garbage accumulated in garbage bins through android application to cleaning personnel and provides shortest path to the garbage bin location.