

Sl.NO	Topic	Author	Methodology	Limitations	Reference
1	Smart Waste Management System Using IoT	Tejashree Kadus, Pawan Kumar Nirmal, Kartikee Kulkarni – MIT Academy of Engineering ,Pune	The basic idea of this project is to award the user with some free Wifi based on the amount of waste the user dumps in the bin.	If the bin is full and is overflowing the user cannot dump the waste in the bin for free Wifi or stand near bin due to foul smell .	https://www.ijert.org/research/smart-waste-management-system-using-iot-IJERTV9IS040490.pdf
2	Smart Waste Management System using ARDUINO	Shwetashree Vijay , Sam Raju , Pilla Nitish Kumar , Vivekanandan – VIT , Vellore ,India	The ideology used here is to separate wet and dry wastes in different containers and each bin is fitted with ultrasonic sensor to measure the weight of the sensor	There is a need for more amount of power consumption as two sensors senses , motor rotates to separate wastes.	https://www.ijert.org/research/smart-waste-management-system-using-arduino-IJERTV8IS110004.pdf
3	Smart Waste Management : Garbage Monitoring using IoT	Sarmila , Siva Kumar , Kumaur – K.L.N College of Engineering , Tamil Nadu, India	Used Ultrasonic Sensor to check the fullness of the bin and a Gas sensor to check whether the bin contains any Hazardous gases in it . A ethernet shield is used to update the status whether it is hazardous or not . And a buzzer alarms if it hazardous.	Using gas sensors for public dustbins is making no sense as chemical wastes from industries are mostly disposed separately .	https://www.internationaljournalssrg.org/uploads/specialissuepdf/ICETSST-2018/2018/CSE/6.ESE1304.pdf

4	Smart Waste Management System	Ankit Kumar , Hrithik Soni , Deepanshi Srivastava – Raj Kumar Goel Institute of Technology , Ghaziabad , India	A ultrasonic Sensor is used to check the weight of the bin and display it using LCD Display .	This kind of bins can only be used in areas like apartments , schools and colleges as no GPS system is used for location detection.	https://www.ijraset.com/best-journal/smart-waste-mangement-system
5	Smart Waste Management	Ritesh Dhadiwal , Pandhari Gaurav , Shubham Gaurav , Avadhut Joshi – Viva Institute of Technology, Thane	It is based on simple steps – Select a Location , Survey of people in that location , Population Forecast , Determine number of vehicles needed for transporting wastes	This is a very simple but still it is like other bins that we cannot predict when it becomes full and when it is empty .	http://www.viva-technology.org/New/IJRI/2021/72.pdf