

A Major Project Report on

# SMART DUSTBIN WITH IOT AND SMS ALERT

*Submitted to*

**Jawaharlal Nehru Technological University, Hyderabad**

*In partial fulfillment of the requirement*

*For the award of degree of*

**BACHELOR OF TECHNOLOGY**

**In**

**ELECTRONICS AND COMMUNICATION ENGINEERING**

**BY**

**THODUPUNURI AKHILA**

**196Y1A0491**

**JADALA HAMSIKA**

**206Y5A0414**

**NERELLA ASMITHA**

**196Y1A0473**

**NALIVELA NIHARIKA**

**196Y1A0469**

Under the esteemed supervision of

**Mr. D.Koteswar Rao**

Assistant Professor



**DEPARTEMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**

**SUMATHI REDDY INSTITUTE OF TECHNOLOGY for WOMEN**

*(Approved by AICTE, New Delhi; Affiliated to JNTU, Hyderabad)*

Ananthasagar(Vill), Hasanparthy(M), Warangal - 506 371(T.S.), Website : [www.sritw.org](http://www.sritw.org)

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*Rajan*

**PRINCIPAL**

Sumathi Reddy Institute of Technology for Women  
Ananthasagar (V), Hasanparthy (M)  
WARANGAL- 506 371 (T.S.)



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## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



### CERTIFICATE

This is to certify that the major project entitled "Smart dustbin with IOT and SMS alert" submitted to JNTUH is carried out by the following students of IV B. Tech in the partial fulfilment for the award of the B. Tech degree in Electronics and Communication Engineering during academic year 2022-23.

THODUPURI AKHILA

196Y1A0491

JADALA HAMSIKA

206Y5A0414

NERELLA ASMITHA

196Y1A0473

**NALIVELA NIHARIKA**

**196Y1A0469**

  
Mr.D.Koteswar Rao

(Assistant professor)

Supervisor

  
Dr.K.Mahender Sharma

(Associate professor)

Head of the Department





**PRINCIPAL**

Sumathi Reddy Institute of Technology for Women,  
Ananthasagar (V), Hasanparthy (M)  
WARANGAL - 506 371 (T.S.)

## ABSTRACT

The smart dustbin using IOT (Internet of Things) and SMS alert project is a system designed to enhance waste management by integrating technology into traditional dustbins. It is explained by IOT and SMS (Short Message Service) capabilities to monitor the fill level of dustbins and alert the concerned authorities when they need to be emptied. The traditional waste management process often relies on fixed schedules or visual inspections to monitor when dustbins need to be emptied. This approach can be inefficient and lead to overflowing bins or unnecessary collections. The smart dustbin system aims to address these issues by providing real-time monitoring and intelligent notifications.



*Rijan*

**Principal**

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