

A Major Project Report On  
**FIRE FIGHTING ROBOT**

Submitted to

**Jawaharlal Nehru Technological University, Hyderabad**

In partial fulfillment of the requirement for

The award of degree of

**BACHELOR OF TECHNOLOGY**

In

**ELECTRONICS & COMMUNICATION ENGINEERING**

by

**BOLLEDLA SHALINI** - 196Y1A0422

**GORANTALA SHREYA** - 196Y1A0446

**BISADI AKHILA** - 196Y1A0498

**DEEKONDA NIKITHA** - 196Y1A0429

Under the esteemed supervision of

**Mrs. D. RAGHAVA KUMARI**

Assistant Professor



**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**

**SUMATHI REDDY INSTITUTE OF TECHNOLOGY FOR WOMEN**

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

Ananthasagar (Village), Hasanparthy (M), Warangal-506371

**2022-2023**

*Rajin*

**PRINCIPAL**

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





**SUMATHI REDDY**

**INSTITUTE OF TECHNOLOGY FOR WOMEN**

*Learning at its best*

Affiliated to JNTUH - Approved by AICTE - Accredited by NBA

**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**

**CERTIFICATE**

This is to Certify that the major project report entitled "**FIRE FIGHTING ROBOT**" submitted to JNTUH is carried out by the following students of IV B.Tech in the partial fulfillment of requirement for the award of degree of Bachelor of Technology in **Electronics & Communication Engineering** during academic year 2022-2023.

BOLLEDLA SHALINI	- 196Y1A0422
GORANTALA SHREYA	- 196Y1A0446
BISADI AKHILA	- 196Y1A0420
<b>DEEKONDA NIKITHA</b>	<b>- 196Y1A0429</b>

**Mrs. D. Raghava Kumari**  
Assistant Professor  
Supervisor

**Dr. K. Mahender**  
Associate Professor  
Head of Dept., ECE



**PRINCIPAL**

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

## ABSTRACT

There is no doubt that firefighting is an important job, but it is also very dangerous Occupation. The absence of human beings in detection of fire usually leads to a huge damage. This project aims to design a fire fighting robot that can operate remotely. The development of firefighting robot consists of two elements both hardware and software programming. The project uses the Arduino UNO as a major embedded system with the ATmega 328P microcontroller. It has H3-05 Bluetooth module for communication. The robot will move randomly in the room when the battery is on. The V380 pro camera is used to know the fire intensity for the user, when the flame sensors detected the fire, the robot will move to the fire source and send a warning message to the user.



*Rijan*

**Principal**

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