Department of Computer Science & Engineering

G.Narayanamma Institute of Technology & Science

(for women)

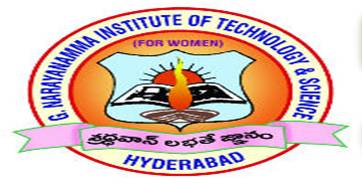
Shaikpet, Hyderabad - 500 104.

Smart bridge LOGO

Accredited by NACC,Aproved by AICTE & Affiliated to JNTU-H

An ISO 9001:2008 Certified

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**IOT HOME SECURITY ALERT SYSTEM**

**BY**

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**ABSTRACT**

Safety is the most important requirement for people at any place either it may be home, office etc., With the development of technology, network and automatic control technology, an accident detection, security monitoring and alarming system becomes more and more practicable today.

In this project, a low-power consumption home security alarm system is developed by applying wireless sensor network(WSN) and global system for mobile communication (GSM) technology. It can detect high temperature variations, motion, leaking of raw gas and fire through the sensors provided in the hardware of the system i.e, Arduino board, LM35(Temperature and humidity) sensor, a PIR (motion detection) sensor, MQ2 (smoke and gas) sensor, Fire sensor, LDR (darkness detection) sensor. The GSM module provides enhanced security, as whenever a signal from sensor occurs the source code in Arduino IDE has the ability of wireless receiving and sends data as a short alert message to the user’s mobile phone that some dangerous condition has been detected.

**SYSTEM REQUIREMENTS:**

**Software Requirements:**

Platform -Windows

Development Tool -Arduino IDE

**Hardware Requirements:**

Name of the Processor- i5 processor

Hard Disk Capacity -1 Tera Byte

RAM Capacity - 8GB

Hardware Parts -GSM Module, Arduino board, LED lights,

Bread board, Sensors, Wires.