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**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**II CSE Micro Project – Phase -I**

**A.Y. 2022-2023**

**Date:1-11-2022**

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| **Domain / Areas** | IOT BASED | |
| **Title of the Project** | LPG GAS LEAKAGE DETECTOR | |
| **Batch number** | 3 | |
| **Team Leader** | A.CHARAN (21R21A0569) | |
| **Team Members Name with Roll No** | 1. E. RANADHEER(21R21A0585) | |
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| **ABSTRACT**:  There have been many incidents like explosions and fires due to LPG gas leakage. Such incidents can cause dangerous effects if the leakage is not detected at an early stage. IOT LPG leakage detector project using Arduino is a project which will help in determining gas leakage in the surroundings and send data to an IOT module. This alert system can be used in modern buildings, schools, hotels, etc.  IOT and Arduino based LPG leakage detection system senses the LPG gas with the help of an LPG gas sensor. In this project, we will implement the LPG gas sensor interfacing with Arduino. The Signal from this sensor will be sent to the Arduino microcontroller The microcontroller is connected to an LCD, Buzzer, and IOT module .  Once the gas leakage is detected the green LED glows otherwise yellow LED will glow . | | |
| **Software/Hardware Needs** | | **Arduino UNO, MQ-6 Gas Sensor, LCD Module, Red and Green LEDs, Jumper Wires and Bread Board** |