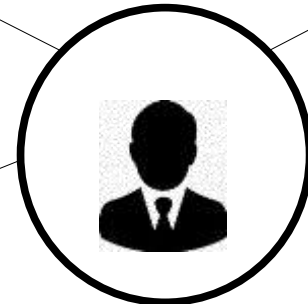


GAS LEAKAGE MONITORING AND ALERTING SYSTEM FOR INDUSTRIES

EMPATHY MAP

- **FACULTY MENTOR:** Dr. D. GRACIA NIRMALA RANI
- **TEAM LEADER:** Nanthini K 19D056
- **TEAM MEMBERS:**
 - Aghalya P 19D006
 - Anandha ganesh M 19D009
 - Lokesh V S 19D045

What do they
THINK AND FEEL?



What do they
SAY AND DO?

What do they
HEAR?

What do they
SEE?

In what areas it can be used

It can detect oxygen deficiency and explosive atmosphere

Efficient and most wanted technology

Is it accurate and reliable

Is it gives fast response

Is it costly

Can it detect natural gas

Is sensitivity depends on humidity and temperature

Small sensitivity to smoke and alcohol

It will be used in Home, Hotels also

Safe and secure industries

Finally an IOT system improves the lives

Circuit complexity

PAIN

GAIN

Extremely more sensitive

Difficult to know failure modes

Difficult to choose the type of gas sensors

High sensitivity to LPG

Monitor concentration of gas

Automatic buzzer and alert system