



# **N.S.N. COLLEGE OF ENGINEERING AND TECHNOLOGY**

N.S.N. Kalvi Nagar, NH-7, Manalmedu, Karur - 639 003, TN, India.  
(Approved by AICTE New Delhi, Affiliated to Anna University, Chennai)  
(An ISO 9001:2008 Certified Institution)



## **DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

### **IV YEAR / VII SEMESTER (ODD)**

BATCH : 2019-2023

ACADEMIC YEAR : 2022-2023

ASSIGNMENT : 1

TEAM ID : PNT2022TMID48761

TITLE OF THE PROJECT : HAZARDOUS AREA MONITORING FOR  
INDUSTRIAL PLANT POWERED BY IOT

DOMAIN : INTERNET OF THINGS

TEAM LEAD : S .DINESH

TEAM MEMBER : V.KARTHIK

TEAM MEMBER : A.SIVAKUMAR

TEAM MEMBER : M.ARUNKUMAR

TEAM MEMBER : K.MANOJ

INDUSTRY MENTOR(S) NAME : BHARADWAJ, SANTOSHI, BHARDWAJ

FACULTY MENTOR(S) NAME : G.ANAND

### **ASSIGNMENT 3 :**

BLINKING OF LED AND TRAFFIC LIGHTS FOR RASPBERRY Pi

#### **Code:**

```
import time

import RPi.GPIO as GPIO

GPIO.setmode(GPIO.BOARD)

GPIO.setup(11, GPIO.OUT) while True: GPIO.output(11,True)

time.sleep(1)

GPIO.output(11,False)

time.sleep(1)

from gpiozero import Button, TrafficLights, Buzzer buzzer = Buzzer(15)

button = Button(21)

lights = TrafficLights(25, 8, 7) while True: button.wait_for_press()

light.green.on()

sleep(1)

lights.amber.on()

sleep(1)

lights.red.on()

sleep(1)

lights.off() while True:

lights.on()

buzzer.off()

button.wait_for_press()

lights.off()

buzzer.on()

button.wait_for_release() while True:

lights.blink()

buzzer.beep()
```

```
button.wait_for_press()
```

```
lights.off()
```

```
buzzer.off()
```

```
button.wait_for_release()
```