

SARDAR VALLBHBHAI PATEL INSTITUTE OF TECHNOLOGY
B.E. INFORMATION TECHNOLOGY (16)

Semester – VII | Subject Code: 3171108 | Subject Name: Internet of Things

Assignment

Assignment 1

1. Define IoT. List its characteristics and applications.
 2. Differentiate between IoT and M2M.
 3. Draw and explain the physical and logical design of IoT.
 4. Classify various types of sensors used in IoT. Give examples.
 5. Write an Arduino sketch to blink an LED using GPIO.
-

Assignment 2

1. Explain MQTT protocol with publish-subscribe model.
2. Compare REST and WebSocket communication models in IoT.
3. Discuss IoT security issues and vulnerabilities.
4. Write applications of IoT in Healthcare or Smart Parking.
5. Design an embedded system using a Photo Diode sensor for smart street light automation.

Asst. Prof. Pradish Dadhania
Departmental Course coordinator

Dr. Mala H. Mehta
HOD IT Department
