VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF INFORMATION TECHNOLOGY

IV Year-I Sem
IoT Lab

S. No	Lab Experiments
Week 1 & 2:	1. Setting up your Raspberry Pi. Installation of software. 2. Introduction to Raspberry Pi & Sensors a. Temperature Sensors b. Proximity Sensors c. Pressure Sensors 3. Introduction to Sensors & Actuators a. Humidity Sensors b. Accelerometer & Gyroscope c. Actuators Ex: Motors
Week 3:	4. Introduction to loT with The Thing Box & IFTTT
Week 4 & 5:	ur own Raspberry Pi Web Server
Week 6:	6. Build a Web-App: Blinking an LED over Internet
Week 7&8:	7. Live Temperature and Humidity Monitoring over Internet
Week 9&10:	8. Introduction to Open Source Cloud Platforms for loT: OpenloT, ThingSpeak, thinger.io, Google Cloud Platform.
Week 11& 12:	9. loT based Home Security System with Email