

C.V. RAMAN POLYTECHNIC, BBSR



LESSON PLAN

Session (2026-2027)

Discipline: Diploma		Semester:5th	Name of the Faculty: Ipsita Ankita Hota
Branch: CSE			
Subject: CSEPC 301		No. of Days/week:	Semester From Date: 01/07/2026
Internet of things(IOT)		45 days/3 class per week	To Date : 05/11/2026
			No. of Weeks: 15
Week	Class Day	Theory Topics	
1st	1 st	Introduction to Internet of Things (IoT)	
	2 nd	Definition and Significance of IoT	
	3 rd	Historical Evolution of IoT	
2nd	1 st	Future Prospects of IoT	
	2 nd	Applications of IoT	
	3 rd	IoT Architecture	
3rd	1 st	Sensors and Actuators	
	2 nd	Connectivity and Data Processing	
	3 rd	Arduino Microcontroller	
4th	1 st	Raspberry Pi	
	2 nd	Operating Systems for IoT	
	3 rd	Middleware for IoT	
5th	1 st	Temperature Sensors	
	2 nd	Humidity Sensors	
	3 rd	Motion Sensors	

6 th	1 st	Other Sensors (Light, Gas, Pressure, etc.)
	2 nd	Actuators: Motors
	3 rd	Actuators: Relays and Control Mechanisms
7 th	1 st	Sensor Interfacing with Microcontrollers
	2 nd	Actuator Interfacing with Microcontrollers
	3 rd	Analog Data Acquisition
8 th	1 st	Digital Data Acquisition
	2 nd	Signal Conditioning Techniques
	3 rd	Signal Filtering Techniques
9 th	1 st	Data Processing
	2 nd	Data Storage
	3 rd	MQTT Protocol
10 th	1 st	CoAP Protocol
	2 nd	HTTP Protocol
	3 rd	Wi-Fi Communication
11 th	1 st	Bluetooth Communication
	2 nd	Zigbee Communication
	3 rd	LoRaWAN Communication
12 th	1 st	Ethernet Communication
	2 nd	Serial Communication
	3 rd	IP Addressing and Subnetting

13 th	1 st	Network Topologies
	2 nd	IPv6 for IoT
	3 rd	IoT Platforms (AWS IoT, Google Cloud IoT)
14 th	1 st	Data Analytics and Visualization
	2 nd	Edge Computing
	3 rd	Cloud Computing (IaaS, PaaS, SaaS)
15 th	1 st	Cloud Integration and Data Management
	2 nd	IoT Security and Privacy, Authentication, Encryption,
	3 rd	Data privacy laws and regulations, User consent and data ownership, Best Practices for ensuring privacy in IoT applications.

Ipsita Ankita Hota

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