

Department of Computer engineering & IoT

LESSON PLAN

Department:		Semester	Name Of The Faculty-:
Computer Engineering And IoT		3 rd	Er.Manoj Kumar Garada
SCHEDULED SESSION:- WINTER- 2026 (5.08.2026 to 13.11.2026)			
SUBJECT IoT Fundamentals Subject Code:- CEIPC203 TH:2			
No. Of Days /Week Class Alloted 03/Week			No. Of Weeks:14
Month	Week	No. Of Period Available	Theory Topics To Be Covered
AUGUST	1	04	UNIT-I Introduction to IoT: Definition and characteristics of IoT, Functional requirements and motivation for IoT, Physical design
	2	04	Things in IoT and their roles, Basic concepts of internetworking and IoT architecture, Overview of TCP/IP and IoT-specific protocols
	3	04	UNIT-II IoT logical design and communication: Functional blocks of IoT architecture Communication models and
	4	04	APIs for IoT, IoT protocols and their comparison, Overview of different networking technologies in IoT.
SEPTEMBER	1	04	UNIT-III IoT applications: Home Automation: Smart lighting, security, and appliances, Smart Cities: Traffic management, smart parking, waste Management.
	2	04	Environmental Monitoring: Pollution control, weather tracking, Energy Sector: Smart grids and energy optimization. Healthcare: Remote monitoring and wearable devices,
	3	04	Industrial IoT: Predictive maintenance, automation , UNIT IV M2M communication and IoT system management: Introduction to Machine-to-Machine (M2M) communication,
	4	04	Difference between M2M and IoT, Software-Defined Networking (SDN) and its role in IoT, Network Function Virtualization (NFV) in IoT,
OCTOBER	1	04	IoT system management: Need and importance, Management protocols,SNMP, NETCONF, YANG,
	2	04	UNIT V IoT development methodology: IoT development lifecycle, Requirements and constraints for IoT applications
	3	04	Process and domain model specifications, Information model specification, Service specification for IoT .
	4	04	UNIT VI IoT architecture and security: IoT level specifications and their importance, IoT security challenges and solutions, Secure data transmission in IoT,
NOVEMBER	1	02	Privacy concerns in IoT applications, Future trends and emerging technologies in IoT

Manoj Kumar Garada

Saxena
HOD COMP & IOT