

SYNERGY SCHOOL OF ENGINEERING, DHENKANAL

LESSON PLAN

SESSION: (2025-26)

Discipline: Computer Science and Engineering	Semester : 4 TH , S/2026	Name of the Faculty: Jayanta Kumar Behera Email: jayantabhr75@gmail.com
Subject: Computer Network	No of days per week: 3	Start Date: 22/12/2025 End Date: 18/01/2026
Course Code: CSEPC 206 / TH3		

WEEK	CLASS DAY	THEORY TOPICS
1	1 ST	1. Introduction: Introduction to computer networks.
	2 ND	Network models.
	3 RD	OSI Reference Model.
2	1 ST	OSI Reference model. Continue...
	2 ND	The layer architecture
	3 RD	TCP/IP Model
3	1 ST	4 Layer of TCP/IP suite
	2 ND	Revision
	3 RD	2. Physical Layer: Transmission Media-Principles and issues
4	1 ST	Wired Media-Coaxial
	2 ND	UTP, STP, Fiber Optic cable
	3 RD	Single Mode & Multimode.
5	1 ST	Wireless Media-HF, VHF, UHF,
	2 ND	Microwave, Ku Band, WIFI 802.11 a/b/g/n/ac
	3 RD	Cellular Data-2G, 3G, 4G, & 5G
6	1 ST	Network topologies
	2 ND	3. Data Link Layer:
	3 RD	Design issues
7	1 ST	DLL protocols (Ethernet, WLAN, Bluetooth)
	2 ND	Switching Techniques, VLAN
	3 RD	Revision
8	1 ST	4. Network Layer:
	2 ND	Design issues
	3 RD	Internet Protocols (IPv4 & IPv6)
9	1 ST	Routing-principles and issues
	2 ND	Routing Algorithms: Distance-vector
	3 RD	Routing Algorithms: Link-state
10	1 ST	Routing Protocols: RIP, OSPF
	2 ND	Routing Protocols: OSPF
	3 RD	5. Transport Layer:
11	1 ST	Design issues,
	2 ND	UDP
	3 RD	TCP
12	1 ST	6. Application Layer: Design Issues
	2 ND	DNS
	3 RD	DHCP
13	1 ST	SNMP
	2 ND	FTP & TFTP
	3 RD	SMTP, WWW
14	1 ST	Telnet & SSH
	2 ND	7. Network Devices:
	3 RD	NIC, Hub
15	1 ST	Switch-Core, Distribution & Access Switches
	2 ND	Router, • WiFi Access-Point • & Wireless LAN Controller;
	3 RD	Revision

Prepared By:

J. Behera
20/12/2025

Verified By:

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Comp. Science & Engg. Dept
SSE, Dhenkanal
20/12/25



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