KIIT POLYTECHNIC, BHUBANESWAR

LESSON PLAN Session (2023-2024)

Discipline: : Computer	Semester: 4 th ,	Name of the faculty: Laxmipriya Samantaray
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Subject: Data	No. of	Start Date: 16/01/2024
Communication &	Days/week:	End Date: 26/04/2024
Computer Network,	04	
Theory-2		

Week	Class Day	Theory Topics	
1 _{st}	1 st	1. Introduction to Network & Protocol	
	2 nd	Data Communication	
	3 rd	Networks	
	4 th	Protocol & Architecture, Standards	
2^{nd}	1 st	OSI model	
	2 nd	TCP/IP	
	3 rd	2. Introduction to Data Transmission & Media	
	4 th	Data transmission Concepts and Terminology	
3 rd	1 st	Analog and Digital Data transmission	
	2 nd	Transmission impairments, Channel capacity	
	3 rd	Transmission media	
	4 th	Guided Transmission	
4^{th}	1 st	Wireless Transmission	
	2 nd	Revision	
	3 rd	3. Introduction to Data Encoding	
	4 th	Data encoding,	
5^{th}	1 st	Digital data digital signals,	
	2 nd	Digital data analog signals	
	3 rd	Analog data digital signals	
	4 th	Analog data analog signals	
6^{th}	1 st	Quiz – 1	
	2 nd	4. Introduction to Data Communication & Data link control	
	3 rd	Asynchronous and Synchronous Transmission	
	4 th	Error Detection	
7^{th}	1 st	Line configuration	
	2 nd	Flow Control	
	3 rd	Error Control	
	4 th	Discussion about control system	
8 th	1 st	Multiplexing	

	2 nd	Continuing Multiplexing
	3 rd	FDM synchronous TDM
	4 th	Continuing FDM synchronous TDM
9 th	1 st	Statistical TDM
	2 nd	Revision
	$3^{\rm rd}$	5. Introduction to Switching & Routing
	4 th	Circuit Switching networks
10 th	1 st	Packet Switching principles
	2^{nd}	X.25
	$3^{\rm rd}$	Routing in Packet switching
	4 th	Congestion
11 th	1 st	Effects of congestion
	2^{nd}	congestion control
	3 rd	Traffic Management
	4 th	Congestion Control in Packet Switching Network.
12 th	1 st	Revision
	2^{nd}	6. Introduction to LAN Technology
	$3^{\rm rd}$	Topology and Transmission Media
	4 th	LAN protocol architecture
13 th	1 st	Medium Access control
	2^{nd}	Bridges, Hub, Switch
	3 rd	Ethernet (CSMA/CD), Fiber Channel
	4 th	Wireless LAN Technology.
14 th	1 st	Revision
	2^{nd}	Quiz - 2
	3 rd	7. Introduction to TCP/IP
	4 th	TCP/IP Protocol Suite
15 th	1 st	Basic Protocol functions
	2^{nd}	Principles of Internetworking
	3^{rd}	Internet Protocol operations
	4 th	Internet Protocol