Department of CSE- DataScience

Lesson Plan & Work-done Diary for AY: 2023-24, ODD Semester

Course with Code: Computer Networks-21CS52				Faculty:				Semester & Section: 5

Class No.	Date planned (DD/MM)	Topics to be covered	TLP Planned	Class No.	Date of Conduction (DD/MM)	Topics Covered	TLP Executed	Remarks if any deviation
				MODULE-1				
1.		Introduction to networks:	PPT Chalk & Talk	1.				
2.		Network hardware,	PPT Chalk & Talk	2.				
3.		Network software	Chalk & Talk PPT	3.				
4.		OSI Reference Model	Chalk & Talk PPT	4.				
5.		The TCP/IP Reference Model	Chalk & Talk PPT	5.				
6.		Guided transmission media	Chalk & Talk PPT	6.				
7.		Guided transmission media- Contd	Chalk & Talk PPT	7.				
8.		Wireless transmission	Chalk & Talk PPT	8.				

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				MODULE-2				
1.		Design issues of DLL	Chalk & Talk PPT	1				
2.		Error detection and correction	Chalk & Talk PPT	2				
3.		Elementary data link protocols	Chalk & Talk PPT	3				
4.		Sliding window protocols	Chalk & Talk PPT	4				
5.		Sliding window protocols contd	Chalk & Talk PPT	5				
6.		The medium access control sublayer	Chalk & Talk PPT	6				
7.		The channel allocation problem	Chalk & Talk PPT	7				
8.		Multiple access protocols	Chalk & Talk PPT	8				
9.		Multiple access protocols contd	Chalk & Talk PPT	9				

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MODULE-3								
1.		NETWORK LAYER DESIGN ISSUES, Store-and-Forward Packet Switching,	Chalk & Talk PPT	1				
2.		Services Provided to the Transport Layer, Implementation of Connectionless Service,	Chalk & Talk PPT	2				
3.		Implementation of Connection-Oriented Service, Comparison of Virtual-Circuit and Datagram Networks	Chalk & Talk PPT	3				
4.		ROUTING ALGORITHMS- The Optimality Principle, Shortest Path Algorithm, Flooding	Chalk & Talk PPT	4				
5.		Distance Vector Routing, Link State Routing,	Chalk & Talk PPT	5				
6.		Hierarchical Routing, Broadcast Routing, Multicast Routing	Chalk & Talk PPT	6				
7.		Anycast Routing, Routing for Mobile Hosts, Routing in Ad Hoc Networks	Chalk & Talk PPT	7				
8.		Congestion Control Algorithms	Chalk & Talk PPT	8				
9.		Congestion Control Algorithms contd	Chalk & Talk PPT	9				
10.		QOS- Application Requirements, Traffic Shaping, Packet Scheduling	Chalk & Talk PPT	10				
11.		Admission Control, Integrated Services Differentiated Services	Chalk & Talk PPT	11				

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MODULE-4									
1.		The Transport Service - Services Provided to the Upper Layers, Transport Service Primitives	Chalk & TalkPPT	1					
2.		Berkeley Sockets, An Example of Socket Programming: An Internet File Server	Chalk & TalkPPT	2					
3.		ELEMENTS OF TRANSPORT PROTOCOLS-Addressing, Connection Establishment, Connection Release	Chalk & Talk PPT	3					
4.		Error Control and Flow Control,	Chalk & Talk PPT	4					
5.		Multiplexing,Crash Recovery	Chalk & Talk PPT	5					
6.		Desirable Bandwidth Allocation, Regulating the Sending Rate	Chalk & Talk PPT	6					
7.		The internet transport protocols	Chalk & Talk PPT	7					
8.		THE INTERNET TRANSPORT PROTOCOLS: TCP, Introduction to TCP, The TCP Service Model, The TCP Protocol	Chalk & Talk PPT	8					
9.		The TCP Segment Header, TCP Connection Establishment, TCP Connection Release, TCP Connection Management Modeling	Chalk & Talk PPT	9					

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MODULE-5								
1.		Principles of Network Applications	Chalk & Talk PPT	1				
2.		Principles of Network Applications - Contd	Chalk & Talk PPT	2				
3.		The Web and HTTP	Chalk & Talk PPT	3				
4.		The Web and HTTP Contd	Chalk & Talk PPT	4				
5.		Electronic Mail in the Internet	Chalk & Talk PPT	5				
6.		Electronic Mail in the Internet Contd	Chalk & Talk PPT	6				
7.		DNS—The Internet's Directory Service.	Chalk & Talk PPT	7				
8.		DNS—The Internet's Directory Service Contd	Chalk & Talk PPT	8				

	Activity	Planned	Actual	Remarks
1	Theory Classes	50		
2	Assignments/ Quizzes/ Self-study	3		
3	Tutorials/ Extra classes	-		
4	Internal Assessments	3		
5	ICT based Teaching (% of usage in Curriculum)			

Planning	Execution
Faculty Signature:	**Faculty Signature:**
HoD Signature:	**HoD Signature:**