

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING - AI & ML

Lesson Plan & Work-done Diary for AY: 2026-27, ODD Semester

Course with Code: Computer Networks Lab BCS502				Faculty: Ms. Harshitha V		Semester: 5	
Class No.	Date planned (DD/MM)	Topics to be covered	TLP Planned	Date of Conduction (DD/MM)	Topics Covered	TLP Executed	Remarks if any deviation
1.		Implement three nodes point – to – point network with duplex links between them. Set the queue size, vary the bandwidth, and find the number of packets dropped	Chalk & Talk PPT			Chalk & Talk PPT	
2.		Implement transmission of ping messages/trace route over a network topology consisting of 6 nodes and find the number of packets dropped due to congestion.	Chalk & Talk PPT			Chalk & Talk PPT	
3.		Implement an Ethernet LAN using n nodes and set multiple traffic nodes and plot congestion window for different source / destination.	Chalk & Talk PPT			Chalk & Talk PPT	
4		Develop a program for error detecting code using CRC-CCITT (16- bits).	Chalk & Talk PPT			Chalk & Talk PPT	
5		Develop a program to implement a sliding window protocol in the data link layer.	Chalk & Talk PPT			Chalk & Talk PPT	



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6.		Develop a program to find the shortest path between vertices using the Bellman-Ford and path vector routing algorithm.	Chalk & Talk PPT			Chalk & Talk PPT	
7.		Using TCP/IP sockets, write a client – server program to make the client send the file name and to make the server send back the contents of the requested file if present	Chalk & Talk PPT			Chalk & Talk PPT	
8.		Develop a program on a datagram socket for client/server to display the messages on client side, typed at the server side.	Chalk & Talk PPT			Chalk & Talk PPT	
9.		Develop a program for a simple RSA algorithm to encrypt and decrypt the data	Chalk & Talk PPT			Chalk & Talk PPT	
10		Develop a program for congestion control using a leaky bucket algorithm.	Chalk & Talk PPT			Chalk & Talk PPT	



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	Activity	Planned	Actual	Remarks
1	Practical Classes	28		
2	Assignments/ Quizzes/ Self-study	02		
3	Tutorials/ Extra classes	-		
4	Internal Assessments	02		
5	ICT based Teaching (% of usage in Curriculum)	100		
Planning			Execution	
Faculty Signature:			Faculty Signature:	
HOD Signature:			HOD Signature:	

