

Title of Paper: Computer Networks

Sr.No.	Heading	Particulars
1	Description the course : Including but Not limited to:	A course on Computer Networks typically focuses on the fundamental principles, technologies, and protocols that enable communication and data exchange between devices in various network environments.
2	Vertical :	Major
3	Type :	Theory
4	Credits :	2 credits (1 credit = 15 Hours for Theory in a semester, Total 30 hours)
5	Hours Allotted :	30
6	Marks Allotted:	50
7	Course Objectives(CO): 1. To understand the basic concepts in OSI Model,distinguishing Factors in TCP/IP ,IP addressing Schemes 2. Understand How the communication happens across the network 3. Understanding of various Routing protocol and their implementation	
8	Course Outcomes (OC): CO 1.Understanding the Transport layer protocols and their utilities CO 2.Various application layer protocols and their implementation CO3:Mailing Services and web services implementation	
9	Modules:- Module 1:	
	1. Introduction: OSI Model, TCP/IP Protocol Suite, IPV 4 Addresses and Protocol and IPV6 Addresses and Protocol 2. Address Resolution Protocol (ARP), Internet Control 3. Message Protocol Version 4 (ICMPv4), Mobile IP, 4. Unicast Routing Protocols (RIP, OSPF and BGP)	15 Hrs
	Module 2:	
	8. User Datagram Protocol (UDP), Transmission Control Protocol (TCP) 9. Host Configuration: DHCP, Domain Name System (DNS) 10. Remote Login: TELNET and SSH, File Transfer: FTP and TFTP ; World Wide Web and HTTP, 11. Electronic Mail: SMTP, POP, IMAP and MIME	15 Hrs
10	Books and References: TCP/IP Protocol Suite, Behrouz A. Forouzan, 4th Edition, Tata McGrawHill (Chapter 2, 5, 7, 26, 27, Chapter 8, 9, 10, 11, Chapter 14,15, Chapter 16, 18, 19, Chapter 20, 21, 22, Chapter 23, 25)	
12	Internal Continuous Assessment: 40%	Semester End Examination: 60%
13	Continuous Evaluation through: Class test of 1 of 15 marks Class test of 2 of 15 marks Average of the two: 15 marks Quizzes/ Presentations/ Assignments: 5 marks Total: 20 marks	Format of Question Paper: External Examination (30 Marks)– 1 hr duration

14

Format of Question Paper: (Semester End Examination : 30 Marks. Duration:1 hour)

Q1: Attempt any two (out of four) from Module 1 (15 marks)

Q2: Attempt any two (out of four) from Module 2 (15 marks)

Or

Q1: Attempt any three (out of five) from Module 1 (15 marks)

Q2: Attempt any three (out of five) from Module 2 (15 marks)