



BHARATI VIDYAPEETH'S COLLEGE OF ENGINEERING
 (Approved by AICTE, New Delhi & Affiliated to Guru Gobind Singh Indraprastha University, Delhi)
 (An ISO 9001:2008 Certified Institution)
 A-4, Paschim Vihar, Main Rohtak Road, New Delhi – 110 063

Department of Electrical and Electronics Engineering

Course Name: INTRODUCTION TO DATA COMMUNICATION AND NETWORKING
(EEE 324 T)

At the end of the course, the student will be able to:

CO	Statement	Bloom's taxonomy	Bloom's Level
EEE 324T.1	Understand basic concepts of data communications.	Understanding	2
EEE 324T.2	Understand and explain various functions of data link layer.	Apply	3
EEE 324T.3	Understand and implements the network routing, IP addressing, subnetting.	Apply	3
EEE 324T.4	Enumerate the functions of transport layer and application layer.	Analyze	4

CO-PO-PSO MAPPING

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
EEE 324T.1	3	2	1	1	3	1	-	-	-	-	-	1	2	3
EEE 324T.2	3	2	1	1	3	1	-	-	-	-	-	1	2	3
EEE 324T.3	3	2	1	1	3	1	-	-	-	-	-	1	2	3
EEE 324T.4	3	2	1	1	3	1	-	-	-	-	-	1	2	3
Average	3	2	1	1	3	1	-	-	-	-	-	1	2	3

1= slightly, 2= moderately, 3= substantially

JUSTIFICATIONS FOR CO-PO-PSO MAPPING

Mapping	LOW/MEDIUM/HIGH	Justification
EEE 324T.1 – PO1	HIGH	Students will be able to apply the knowledge of basic concepts of Internet architecture and communication strategies for solutions of complex networking problems.
EEE 324T.1 – PO2	MEDIUM	Moderately mapped as students will be able to apply the concepts of data communication in various computer network applications.
EEE 324T.1 – PO3	LOW	Slightly mapped as students will be able to understand basics of data communication and protocol layering.
EEE 324T.1 – PO4	LOW	Slightly mapped as students will be able to analyse protocol layering and various network topology.
EEE 324T.1 – PO5	HIGH	Understanding the various end to end protocols helps in analyzing and interpreting the quality of networks.
EEE 324T.1 – PO6	LOW	Students will be able to Design system to evaluate network performance.
EEE 324T.1 – PO12	LOW	To identify the point to point protocols that can be used in different categories of networks
EEE 324T.2 – PO1	HIGH	Apply the knowledge of data link layer protocols to solve network problems.
EEE 324T.2 – PO2	MEDIUM	Moderately mapped as students will be able to analyze various methods for signal conversions.
EEE 324T.2 – PO3	LOW	Slightly mapped as students will be able to understand signal conversions.

EEE 324T.2 – PO4	LOW	Apply the knowledge of routing techniques in network communication.
EEE 324T.2 – PO5	HIGH	Apply the knowledge in services at application level of TCP/IP protocol suite to solve complex networking problems.
EEE 324T.2 – PO6	LOW	Understanding the various routing techniques helps in analyzing and interpreting the quality of networks.
EEE 324T.2 – PO12	LOW	Slightly mapped as students will be able to apply the concepts of data communication in various computer network applications.
EEE 324T.3 – PO1	HIGH	Able to design better solutions for error free transmission in internet using appropriate routing methods.
EEE 324T.3 – PO2	MEDIUM	Moderately mapped as students will be able to understand error detection and error correction.
EEE 324T.3 – PO3	LOW	Applies the knowledge in identifying the appropriate channel access techniques for both wired and wireless communications
EEE 324T.3 – PO4	LOW	Apply the knowledge of routing techniques in network communication.
EEE 324T.3 – PO5	HIGH	Apply the knowledge in different services available in application layer for problems related with internet.
EEE 324T.3 – PO6	LOW	Slightly mapped as the students can apply the concepts of IP and routing algorithms in networking applications.
EEE 324T.3 – PO12	LOW	Slightly mapped as the students can identify and

		compare different routing algorithms.
EEE 324T.4 – PO1	HIGH	Apply the knowledge in different services available in application layer for problems related with internet.
EEE 324T.4 – PO2	MEDIUM	Moderately mapped as students learn to design/ develop solutions with these methods.
EEE 324T.4 – PO3	LOW	Identify application layer protocols for various user level applications.
EEE 324T.4 – PO4	LOW	Slightly mapped as the students can identify and compare different routing algorithms.
EEE 324T.4 – PO5	HIGH	Analyze the concepts of analog and digital signal, network topology, area networks to identify the network criteria parameters.
EEE 324T.4 – PO6	LOW	Slightly mapped as students will be able identify working principles of application layer protocols HTTP, FTP, SMTP and DNS.
EEE 324T.4 – PO12	LOW	Slightly mapped as students can use the principles of application layer protocols in the related domains.
EEE 324T.1 – PSO1	MEDIUM	Moderately mapped as students will be able to understand the computer network concepts such as protocol layering.
EEE 324T.1 – PSO2	HIGH	Analyze the concepts of analog and digital signal, network topology, area networks to identify the network criteria parameters.
EEE 324T.2 – PSO1	MEDIUM	Moderately mapped as students will be able to understand the signal conversions

EEE 324T.2 – PSO2	HIGH	Apply the knowledge in different services available in application layer for problems related with internet.
EEE 324T.3 – PSO1	MEDIUM	Contribute in network design and administration.
EEE 324T.3 – PSO2	HIGH	Able to identify better solutions for error free transmission in internet using appropriate routing methods.
EEE 324T.4 – PSO1	MEDIUM	Able to apply the fundamentals of connection oriented and connectionless protocols to solve networking issues.
EEE 324T.4 – PSO2	HIGH	Analyze the concepts of analog and digital signal, network topology, area networks to identify the network criteria parameters.