



**Course Outcomes & CO-PO-PSO Mapping and Justification**

<b>Subject</b>	<b>Computer Networks and Security</b>	<b>18CS52</b>
<b>COURSE OUTCOMES:</b>		
<b>CO No.</b>	<b>On completion of this course, students will be able to:</b>	<b>Cognitive Level</b>
18CS52.1	Understand the principles of the application layer protocols HTTP, FTP, SMTP and DNS.	L2
18CS52.2	Understand the transport layer services, TCP and UDP protocols.	L2
18CS52.3	Understand the router architecture, IP and routing algorithms.	L2
18CS52.4	Understand the concepts of Network security and cryptography protocols.	L2
18CS52.5	Understand the multimedia network applications, audio, video streaming and network management.	L2

**CO-PO-PSO MAPPING**

CO No.	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
18CS52.1	1	1	-	-	-	-	-	-	-	-	-	1	-	-	2
18CS52.2	1	1	-	-	-	-	-	-	-	-	-	1	-	-	2
18CS52.3	1	2	-	-	-	-	-	-	-	-	-	1	-	-	2
18CS52.4	1	1	-	-	-	-	-	-	-	-	-	1	-	-	2
18CS52.5	1	1	-	-	-	-	-	-	-	-	-	1	-	-	2
<b>Avg. Mapping</b>	<b>1.0</b>	<b>1.2</b>	-	-	-	-	-	-	-	-	-	<b>1.0</b>	-	-	<b>2.0</b>

**CO-PO-PSO JUSTIFICATION**

<b>CO No.</b>	<b>PO/PSO</b>	<b>CL</b>	<b>Justification</b>
18CS52.1	PO1	1	Slightly mapped as students will be able to understand the principles of the application layer protocols HTTP, FTP, SMTP and DNS.
	PO2	1	Slightly mapped as students will be able identify working principles of application layer protocols HTTP, FTP, SMTP and DNS.
	PO12	1	Slightly mapped as students can use the principles of application layer protocols in the related domains.
	PSO3	2	Moderately mapped as students can apply the principles of application layer protocols for developing networking applications.
18CS52.2	PO1	1	Slightly mapped as students will be able to understand the transport layer services, TCP and UDP protocols.
	PO2	1	Slightly mapped as students will be able identify the services of TCP and UDP.
	PO12	1	Slightly mapped as students can use the services of TCP and UDP for communication protocols.
	PSO3	2	Moderately mapped as students can apply the principles of TCP and UDP in networking applications.
18CS52.3	PO1	1	Slightly mapped as students will be able to understand the router architecture, IP and routing algorithms.
	PO2	2	Moderately mapped as the students can identify and compare different routing algorithms.
	PO12	1	Slightly mapped as the students can use the routing algorithms in networking protocols.
	PSO3	2	Moderately mapped as the students can apply the concepts of IP and routing algorithms in networking applications.
18CS52.4	PO1	1	Slightly mapped as students will be able to understand the Network attacks and Cryptographic algorithms.
	PO2	1	Slightly mapped as the students can identify the Elements of Network Security.
	PO12	1	Slightly mapped as the students can use the concepts of Cryptography in learning advanced Network security concepts.
	PSO3	2	Moderately mapped as the students can apply the concepts Cryptographic and Authentication algorithms for real time applications.
18CS52.5	PO1	1	Slightly mapped as students will be able to understand the multimedia network applications, audio, video streaming and network management .
	PO2	1	Slightly mapped as the students can identify various multimedia network applications, audio, video streaming for communication.

	PO12	1	Slightly mapped as the students can use multimedia network applications such as VoIP.
	PSO3	2	Moderately mapped as the students can apply VoIP concepts for real time conversational applications.

**Prepared by**

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