



**Lesson Plan for AY: 2024-25, odd Semester**

<b>Class No.</b>	<b>Topics to be covered</b>	<b>TLP Planned</b>
<b>Module-1</b>		
1.	Introduction to the course	PPT, Chalk and Talk
2.	Data Communications, Networks	PPT, Chalk and Talk
3.	Network Types, Networks Models: Protocol Layering	PPT, Chalk and Talk
4.	TCP/IP Protocol suite	PPT, Chalk and Talk
5.	The OSI model	PPT, Chalk and Talk
6.	Introduction to Physical Layer: Transmission media, Guided Media	PPT, Chalk and Talk
7.	Unguided Media: Wireless. Switching: Packet Switching and its types.	PPT, Chalk and Talk
8.	Revision, Module End Question discussion, Quiz	myQuiz App

**Module-2**

<b>Class No.</b>	<b>Topics to be covered</b>	<b>TLP Planned</b>
1.	Error Detection and Correction: Introduction	PPT, Chalk and Talk
2.	Block Coding, Cyclic Codes	PPT, Chalk and Talk
3.	DLC Services: Framing, Flow Control	PPT, Chalk and Talk
4.	Error Control, Connectionless and Connection Oriented	PPT, Chalk and Talk
5.	Data link layer protocols, High Level Data Link Control	PPT, Chalk and Talk
6.	Media Access Control: Random Access, Controlled Access	PPT, Chalk and Talk, Collaborative Learning
7.	Check Sum and Point to Point Protocol	PPT, Chalk and Talk
8.	Revision, Module End Questiondiscussion, Quiz	myQuiz App, Flipped classroom

**Module-3**

<b>Class No.</b>	<b>Topics to be covered</b>	<b>TLP Planned</b>
1.	Network layer Services, Packet Switching	PPT, Chalk and Talk
2.	IPv4 Address, IPv4 Datagram	PPT, Chalk and Talk
3.	IPv6 Datagram, Introduction to Routing Algorithms	PPT, Chalk and Talk
4.	Unicast Routing Protocols: DVR,	PPT, Chalk and Talk
5.	LSR, PVR	PPT, Chalk and Talk
6.	Unicast Routing protocols: RIP, OSPF	PPT, Chalk and Talk
7.	BGP, Multicasting Routing-MOSPF	PPT, Chalk and Talk
8.	Revision, Module End Questiondiscussion, Quiz	myQuiz App, Flipped classroom

**Module-4**

<b>Class No.</b>	<b>Topics to be covered</b>	<b>TLP Planned</b>
1.	Transport-Layer Protocols: Introduction	PPT, Chalk and Talk
2.	User Datagram Protocol	PPT, Chalk and Talk
3.	Transmission Control Protocol: services	PPT, Chalk and Talk
4.	TCP: Features, segments	PPT, Chalk and Talk
5.	TCP connections	PPT, Chalk and Talk
6.	Flow control,	PPT, Chalk and Talk
7.	Error control, Congestion control	PPT, Chalk and Talk
8	Revision, Module End Questiondiscussion, Quiz	myQuizApp

**Module-5**

<b>Class No.</b>	<b>Topics to be covered</b>	<b>TLP Planned</b>
1.	Introduction to Application Layer	PPT
2.	Client-Server Programming	PPT, Chalk and Talk
3.	Standard Client- Server Protocols: World Wide Web and HTTP	PPT, Chalk and Talk
4.	FTP	PPT, Chalk and Talk
5.	Electronic Mail	PPT, Chalk and Talk
6.	Domain Name System (DNS)	PPT, Chalk and Talk
7.	TELNET, Secure Shell (SSH)	PPT, Chalk and Talk
8.	Revision, Module End Question discussion, Quiz	myQuiz App

	Activity	Planned	Actual	Remarks
1	Theory Classes	40		
2	Assignments/ Quizzes	2/5		
3	Tutorials/ Extra classes	2		
4	Internal Assessments	3		
5	ICT based Teaching (% of usage in Curriculum)	100		
<b>Planning</b>			<b>Execution</b>	
Faculty Signature:			Faculty Signature:	
HoD Signature:			HoD Signature:	