

#### LESSON PLAN

**SESSION: 2022-2023** 

# DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION ENGINEERING

**SUBJECT CODE: Th.2** 

NAME OF THE SUBJECT: DATA OMMUNICATION AND

**COMPUTER NETWORK** 

**BRANCH: ELECTRONICS & TELECOMMUNICATION** 

**SEMESTER: DIPLOMA 4<sup>TH</sup> SEM** 

NUMBER OF CLASSES ALLOTTED PER WEEK: 4

TOTAL PERIODS ALLOTED TO THE SUBJECT ACCORDING TO

SCTEVT: 60

NAME OF THE FACULTY: MANINI MONALISA PRADHAN



# LESSON PLAN

#### DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION ENGINEERING

SUBJECT CODE: Th.2

NAME: DATA COMMUNIATION AND COMPUTER NETWORK

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SEMESTER: DIPLOMA 4<sup>th</sup> SEM

PERIODS PER WEEK:

NAME OF THE FACULTY: MANINI MONALISA PRADHAN

Week/Date	Lecture	Topic to be covered	Remarks
1 <sup>st</sup> week 14/02/2023	1 <sup>st</sup>	Data Communication Introduction	
To	2 <sup>nd</sup>	Types of data communication	
18/02/2023	3 <sup>rd</sup>	Networks	
	4t <sup>h</sup>	Different types of Networks	
2 <sup>nd</sup> week	1 <sup>st</sup>	Protocol	
20/02/2023	2 <sup>nd</sup>	Architecture	
To 25/02/2023	3 <sup>rd</sup>	Standards, OSI	
25/02/2023	4 <sup>th</sup>	TCP/IP	
3 <sup>rd</sup> week	1 <sup>st</sup>	Data transmission Concepts	
27/02/2023 To 04/03/2023	2 <sup>nd</sup>	Data transmission Terminology	
	3 <sup>rd</sup>	Analog Data transmission	
	4 <sup>th</sup>	Digital Data transmission	



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Week/Date	Lecture	Topic to be covered	Remarks
4 <sup>th</sup> week 06/03/2023 To	1 <sup>st</sup>	Transmission impairments	07/03/2023 TO
	2 <sup>nd</sup>	Channel capacity	08/03/2023(Holi holidays)Need one
11/03/2023	3 <sup>rd</sup>	Transmission media	extra classes for
	4 <sup>th</sup>	Guided Transmission	adjustment
		Wireless Transmission	
5 <sup>th</sup> week 13/03/2023	1 <sup>st</sup>	Data Encoding	13/03/2023 TO
	2 <sup>nd</sup>	Digital data digital signal	16/03/2023 (classes
To	3 <sup>rd</sup>	Digital data digital signal continue	suspended due to
18/03/2023	4 <sup>th</sup>	Digital data analog signal	semester exam).Need three extra classes
6 <sup>th</sup> week	1 <sup>st</sup>	Digital data analog signal continue	
20/03/2023 To 25/03/2023	2 <sup>nd</sup>	Analog data digital signal	
	3 <sup>rd</sup>	Analog data digital signal	
	4 <sup>th</sup>	Analog data analog signal	



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Week/Date	Lecture	Topic to be covered	Remarks
th	ot		
7 <sup>th</sup> week 27/03/2023	1 <sup>st</sup>	Asynchronous and synchronous Transmission	
To	2 <sup>nd</sup>	Error Detection	
01/04/2023	3 <sup>rd</sup>	Basic idea of Error control	
	4 <sup>th</sup>	Error Detection	
8 <sup>th</sup> week	1 <sup>st</sup>	Line Configuration	07/04/2023(holiday)Need one extra class for
03/04/2023 To 08/04/2023	2 <sup>nd</sup>	Flow control	adjustment
	3 <sup>rd</sup>	Error Control	
	4 <sup>th</sup>	Multiplexing	
9 <sup>th</sup> week 10/04/2023 To 15/04/2023	1 <sup>st</sup>	FDM Synchronous TDM	14/04/2023(holiday)Need one extra class for adjustment
	2 <sup>nd</sup>	Statistical TDM	
	3 <sup>rd</sup>	Circuit Switching Network	
	4 <sup>th</sup>	Packet Switching Principles	1
		X.25	1



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Week/Date	<u>Lecture</u>	Topic to be covered	Remarks
10 <sup>th</sup> week 17/04/2023 To 22/04/2023	1 <sup>st</sup>	Routing in Packet Switching	
	2 <sup>nd</sup>	Congestion	
	3 <sup>rd</sup>	Effects of congestion	
22/04/2023	4 <sup>th</sup>	Congestion control	
11 <sup>th</sup> week	1 <sup>st</sup>	Traffic Management	
24/04/2023 To	2 <sup>nd</sup>	Congestion Control in Packet Switching Network	
29/04/2023	3 <sup>rd</sup>	Congestion Control in Packet Switching Network continue	
	4 <sup>th</sup>	Topology	
12 <sup>th</sup> week	1 <sup>st</sup>	Transmission media	05/05/2023(holiday)Ne
01/05/2023	2 <sup>nd</sup>	LAN Protocol architecture	ed one extra class for
To 06/05//2023	3 <sup>rd</sup>	Medium access control	adjustment
06/03//2023	4 <sup>th</sup>	Bridges	
13 <sup>th</sup> week	1 <sup>st</sup>	Hub	
08/05/2023	2 <sup>nd</sup>	Switches	
To 13/05//2023	3 <sup>rd</sup>	Ethernet	
13/03//2023	4 <sup>th</sup>	Fiber Channel	
14th week	1 <sup>st</sup>	Wireless LAN Technology	19/05/2023(holiday)Ne
	2 <sup>nd</sup>	TCP/IP Protocol	ed one extra class for
15/05/2023 TO	3 <sup>rd</sup>	TCP/IP Protocol continue	adjustment
20/05/2023	4 <sup>th</sup>	Basic Protocol function	
15 <sup>th</sup> Week	1 <sup>st</sup>	Basic Protocol function continue	Classes will be continued up to
22/05/2023 TO	2 <sup>nd</sup>	Principle of Internetworking	23/05/2023 as per
		Principle of Internetworking continue	academic calendar.

23/05/2023	Internet Protocol operation	need three extra
	Internet Protocol	classes