

**BHADRAK ENGINEERING SCHOOL & TECHNOLOGY (BEST), ASURALI, BHADRAK**

**DATA COMMUNICATION AND COMPUTER NETWORK (Th- 02)**

**CHAPTER-WISE DISTRIBUTION OF PERIODS & EXPECTED MARKS**

Sl. No.	Name of the Chapter	Periods as per Syllabus	Required period	Expected Marks
01	Network& Protocol	08	08	15
02	Data Transmission & Media	08	07	15
03	Data Encoding	08	09	15
04	Data Communication & Data link control	08	10	20
05	Switching & Routing	10	09	15
06	LAN Technology	10	09	15
07	TCP/IP	08	06	15
<b>TOTAL</b>		<b>60</b>	<b>58</b>	<b>110</b>

Sign of Lect.

Sign of HOD.

Sign of AIC

Sign of Vice Principal

## LESSON PLAN

<b>Discipline:</b> Computer Sc. & Engg.	<b>Semester:</b> Fourth (4 <sup>th</sup> )	<b>Name Of The Faculty:</b> Er Biswajit Moharana
<b>Subject:</b> Data Communication & Computer Network	<b>No of days/ week class allotted:</b> Six(6)	<b>Semester from date:</b> 14. 02.2023 <b>to Date:</b> 23. 05.2023  <b>No of weeks: 15</b>
<b>WEEK</b>	<b>CLASS DAY</b>	<b>THEORY TOPICS</b>
1 <sup>st</sup>	1 <sup>st</sup>	<b>Chapter No.- 01 (Network &amp; Protocol)</b> Data Communication
	2 <sup>nd</sup>	continue.
	3 <sup>rd</sup>	Networks
	4 <sup>th</sup>	Protocol & Architecture.
	5 <sup>th</sup>	Standards,
	6 <sup>th</sup>	OSI,
2 <sup>nd</sup>	1 <sup>st</sup>	TCP/IP
	2 <sup>nd</sup>	Cont...
	3 <sup>rd</sup>	<b><i>Possible Question Answer Discussion</i></b>
	4 <sup>th</sup>	<b>Chapter No.- 02 (Data Transmission &amp; Media)</b> Data transmission Concepts and Terminology
	5 <sup>th</sup>	Analog and Digital Data transmission
	6 <sup>th</sup>	Transmission impairments,
3 <sup>rd</sup>	1 <sup>st</sup>	Channel capacity
	2 <sup>nd</sup>	Transmission media,
	3 <sup>rd</sup>	Guided Transmission,
	4 <sup>th</sup>	Wireless Transmission
	5 <sup>th</sup>	<b><i>Possible Question Answer Discussion</i></b>
	6 <sup>th</sup>	<b>Chapter No.- 03 (Data Encoding )</b> Data encoding.
4 <sup>th</sup>	1 <sup>st</sup>	<b><i>Monthly Test- 1</i></b>
	2 <sup>nd</sup>	Digital data digital signals,
	3 <sup>rd</sup>	continue
	4 <sup>th</sup>	Digital data analog signals
	5 <sup>th</sup>	continue
	6 <sup>th</sup>	Analog data digital signals
5 <sup>th</sup>	1 <sup>st</sup>	Continue.
	2 <sup>nd</sup>	Analog data analog signals
	3 <sup>rd</sup>	Continue
	4 <sup>th</sup>	<b><i>Possible Question Answer Discussion</i></b>
	5 <sup>th</sup>	<b>Chapter No.- 04 (Data Communication &amp; Data link control)</b> Asynchronous Transmission
	6 <sup>th</sup>	Synchronous Transmission

6 <sup>th</sup>	1 <sup>st</sup>	Error Detection
	2 <sup>nd</sup>	Line configuration.
	3 <sup>rd</sup>	Flow Control,
	4 <sup>th</sup>	Error Control
	5 <sup>th</sup>	Multiplexing
	6 <sup>th</sup>	Cont.
7 <sup>th</sup>	1 <sup>st</sup>	FDM synchronous TDM
	2 <sup>nd</sup>	Statistical TDM
	3 <sup>rd</sup>	<b>Possible Question Answer Discussion</b>
	4 <sup>th</sup>	<b>Monthly Test- 2</b>
	5 <sup>th</sup>	<b>Chapter No.- 05 (Switching and Routing)</b> Circuit Switching networks
	6 <sup>th</sup>	Packet Switching principles
8 <sup>th</sup>	1 <sup>st</sup>	X.25
	2 <sup>nd</sup>	Routing in Packet switching
	3 <sup>rd</sup>	Congestion
	4 <sup>th</sup>	Effects of congestion, congestion control
	5 <sup>th</sup>	Effects of congestion, congestion control continue.
	6 <sup>th</sup>	Traffic Management
9 <sup>th</sup>	1 <sup>st</sup>	Congestion Control in Packet Switching Network.
	2 <sup>nd</sup>	<b>Possible Question Answer Discussion</b>
	3 <sup>rd</sup>	<b>Chapter No.- 06 (LAN Technology)</b> Topology and Transmission Media
	4 <sup>th</sup>	Topology and Transmission Media
	5 <sup>th</sup>	Continue.
	6 <sup>th</sup>	LAN protocol architecture
10 <sup>th</sup>	1 <sup>st</sup>	<b>Monthly Test- 3</b>
	2 <sup>nd</sup>	Medium Access control
	3 <sup>rd</sup>	Continue.
	4 <sup>th</sup>	Bridges, Hub, Switch
	5 <sup>th</sup>	Ethernet (CSMA/CD), Fiber Channel
	6 <sup>th</sup>	Wireless LAN Technology.
11 <sup>th</sup>	1 <sup>st</sup>	<b>Possible Question Answer Discussion</b>
	2 <sup>nd</sup>	<b>Chapter No.- 07 (TCP/IP)</b>
	3 <sup>rd</sup>	TCP/IP Protocol Suite
	4 <sup>th</sup>	Basic Protocol functions
	5 <sup>th</sup>	Principles of Internetworking
	6 <sup>th</sup>	Internet Protocol operations
12 <sup>th</sup>	1 <sup>st</sup>	Internet Protocol
	2 <sup>nd</sup>	<b>Possible Question Answer Discussion</b>
	3 <sup>rd</sup>	Review Class for Chapter No.- 01
	4 <sup>th</sup>	Review Class for Chapter No.- 01
	5 <sup>th</sup>	Review Class for Chapter No.- 02
	6 <sup>th</sup>	Review Class for Chapter No.- 02

13 <sup>th</sup>	1 <sup>st</sup>	<b>Monthly Test- 4</b>
	2 <sup>nd</sup>	Review Class for Chapter No.- 03
	3 <sup>rd</sup>	Review Class for Chapter No.- 03
	4 <sup>th</sup>	Review Class for Chapter No.- 04
	5 <sup>th</sup>	Review Class for Chapter No.- 04
	6 <sup>th</sup>	Review Class for Chapter No.- 05
14 <sup>th</sup>	1 <sup>st</sup>	Review Class for Chapter No.- 05
	2 <sup>nd</sup>	Review Class for Chapter No.- 06
	3 <sup>rd</sup>	Review Class for Chapter No.- 06
	4 <sup>th</sup>	Review Class for Chapter No.- 06
	5 <sup>th</sup>	Review Class for Chapter No.- 07
	6 <sup>th</sup>	Review Class for Chapter No.- 07
15 <sup>th</sup>	1 <sup>st</sup>	Previous Year (S- 22) Question Answer Discussion
	2 <sup>nd</sup>	Previous Year (S- 22) Question Answer Discussion
	3 <sup>rd</sup>	Previous Year(S- 21) Question Answer Discussion
	4 <sup>th</sup>	Previous Year (S- 21) Question Answer Discussion
	5 <sup>th</sup>	Previous Year (S- 20) Question Answer Discussion
	6 <sup>th</sup>	Previous Year(S- 20) Question Answer Discussion

***Chapters covered up to IA: 1, 2 & 3.***