Lesson Plan for DCCN(Th-2) session2022-23-(S)
Department of Electronics and Telecommunication Engg.
Government Polytechnic Balasore

Discipline: E&TC	**Semester: 4th**	**Name of the Faculty: Er. Swagatika Malik**
Subject: Data Comm. & Comp. N/W. Code: TH-2	No of Days/per week class allotted: 4 P/W	Semester from date: 14/02/2023 To Date:23/05/2023 No of weeks: 15
WEEK	**PERIOD**	**TOPIC**
1st	1st	**1. Network & Protocol:** 1.1 Define Data Communication and its components. 1.2 Define Data flow modes.
	2nd	1.3 Define Networks and its criteria.
	3rd	1.4 Explain Network topologies.
	4th	1.5 Explain Network topologies.
2nd	1st	1.6 Explain types of networks.
	2nd	1.6 Explain types of networks.
	3rd	1.7 Explain network standards
	4th	1.8 Define protocol and its architecture
3rd	1st	1.8 Define protocol and its architecture
	2nd	1.9 Explain Network Models OSI and TCP/IP protocol suite
	3rd	1.9.1 Physical Layer and Data link Layer
	4th	1.9.2 Network Layer and Transport layer
4th	1st	1.9.3 Application Layer
	2nd	**2. Data Transmission and Media:**
	3rd	2.1 Explain Data transmission concepts and terminology.
	4th	2.2.1 Explain Analog transmission and digital transmission.
5th	1st	2.2.2 Explain Analog transmission and digital transmission.
	2nd	**3. Data Encoding:**
	3rd	3.1 Define Data encoding.
	4th	3.2.1 Explain Digital data digital signals.
6th	1st	3.2.2 Explain Digital data digital signals.
	2nd	3.3.1 Explain Digital data analog signals.
	3rd	3.3.2 Explain Digital data analog signals.
	4th	3.4.1 Explain Analog data digital signals.
7th	1st	3.4.2 Explain Analog data digital signals.
	2nd	3.5.1 Explain Analog data analog signals.
	3rd	3.5.2 Explain Analog data analog signals.
	4th	**4. Data Communication and Data link control**
8th	1st	4.1.1 Explain briefly Asynchronous and synchronous Transmission.
	2nd	4.1.2 Explain briefly Asynchronous and synchronous Transmission.

	3rd	4.2.1 Explain briefly Error Detection.
	4th	4.2.2 Explain briefly Error Detection.
9th	1st	4.3 Line configuration.
	2nd	4.4 Flow Control.
	3rd	4.5 Error Control.
	4th	4.6 Multiplexing
10th	1st	4.7 FDM synchronous TDM
	2nd	4.8 Statistical TDM
	3rd	**5. Switching & Routing**
	4th	5.1 Explain the Features of circuit switching
11th	1st	5.2 Packet switching, Data gram approach
	2nd	5.3 Explain X.25 protocol.
	3rd	5.4 Explain the features of Routing in packet switching.
	4th	5.5.1 Explain Congestion briefly
12th	1st	5.5.2 Effects of congestion, congestion control.
	2nd	5.6 Traffic Management.
	3rd	5.7 Congestion control in Packet Switching Network.
	4th	**6. LAN Technology:**
13th	1st	6.1 Topology and Transmission Media.
	2nd	6.2 Describe briefly LAN protocol architecture
	3rd	6.3 Explain the Medium Access Control.
	4th	6.4 Explain the following terms – Hub, Bridge, Switch.
14th	1st	6.5 Explain Ethernet (CSMA/CD), Fiber Channel.
	2nd	6.6 Describe Wireless LAN Technology.
	3rd	**7. TCP/IP:**
	4th	7.1 Explain briefly TCP/IP Protocol Suite.
15th	1st	7.2 Explain Basic Protocol functions.
	2nd	7.3 Explain Principles of Internetworking.
	3rd	7.4 Explain Internet Protocol operations.
	4th	7.5 Explain the Internet Protocol.

Sumaiya
13/02/2023
Lecturer (IT)

21/2/23