



GOVERNMENT POLYTECHNIC, BALASORE

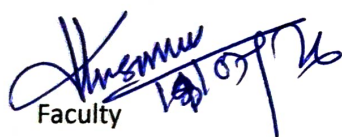
Government of Odisha

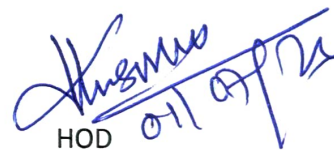
ସରକାରୀ ବହୁବୃତ୍ତି ଅନୁଷ୍ଠାନ, ବାଲେଶ୍ଵର

LESSON PLAN (SUMMER-2026)

Discipline: ELECTRONICS & TELECOMMUNICATION ENGINEERING	Semester: 5 TH	Name of the Teaching Faculty: Jadunath Murmu (Sr. Lect. E&TC)
Subject: DATA COMMUNICATION & COMPUTER NETWORKS	No of Days / Per week class allotted: 3	Semester From date: 1 ST July, 2026 No of Weeks: 15
Week	Class Day	Theory / Practical Topics
1st	1st	Network & Protocol (5) 1.1 Data Communication
	2nd	1.2 Networks
	3rd	1.3 Protocol & Architecture
2nd	1st	Standards- OSI
	2nd	TCP/IP
	3rd	Data Transmission & Media (7) 2.1 Data transmission Concepts and Terminology
3rd	1st	2.2 Channel capacity
	2nd	2.3 Transmission media
	3rd	2.4 Guided Transmission
4th	1st	2.4 Guided Transmission
	2nd	2.6 Wireless Transmission
	3rd	2.6 Wireless Transmission
5th	1st	Data Encoding (7) 3.1 Data encoding,
	2nd	3.2 Digital data digital signals
	3rd	3.3 Digital data analog signals
6th	1st	3.4 Analog data digital signals
	2nd	3.4 Analog data digital signals
	3rd	3.5 Analog data analog signals
7th	1st	3.5 Analog data analog signals
	2nd	Data Communication & Data link control (7) 4.1 Asynchronous and Synchronous Transmission
	3rd	4.1 Error Detection
8th	1st	4.3 Line configuration
	2nd	4.4 Flow Control 4.5 Error Control
	3rd	4.6 Multiplexing
9th	1st	4.7 FDM synchronous TDM
	2nd	4.8 Statistical TDM
	3rd	Switching & Routing (7) 5.1 Circuit Switching networks

10th	1st	5.2 Packet Switching principles
	2nd	5.3 X.25
	3rd	5.4 Routing in Packet switching
11th	1st	5.5 Congestion
	2nd	5.6 Effects of congestion, congestion control
	3rd	5.7 Traffic Management
12th	1st	LAN Technology (7) 6.1 Topology and Transmission Media
	2nd	6.2 LAN protocol architecture
	3rd	6.4 Bridges,
13th	1st	Hub & Switch
	2nd	6.5 Ethernet (CSMA/CD)
	3rd	6.5 Ethernet (CSMA/CD)
14th	1st	6.6 Wireless LAN Technology
	2nd	TCP/IP (5) 7.1 TCP/IP Protocol Suite
	3rd	7.2 Basic Protocol functions
15th	1st	7.3 Principles of Internetworking
	2nd	7.3 Internet Protocol operations
	3rd	7.4 Internet Protocol


Faculty


HOD