

Vision:

• To Visualize the creation of skilled, proficient IT Professionals to meet current challenges.

Mission:

- To encourage young minds for training & entrepreneurship.
- To convey standard education with rapidly changing environment with ethical values. To provide an environment where students can continuously learn, apply & communicate knowledge.

Name Of Program :- Diploma in Information Technology

Date:-

Course Title: Data Communication (22322) Sem-III (2023 -24)

Course Outcome :- CO

Chapter Name: - Introduction to Data Communication.

Assignment No:-01

- Q.1 Define Data Communication. Explain the components of Data Communication with diagram.
- Q.2 Explain the term Protocol in detail.
- Q.3 Explain the Modes of Communication in detail.
- Q.4 Differentiate between Analog Signal and Digital Signal.
- Q.5 Define Standard. Name any four Standard Organizations.
- Q.6 Explain the term Analog-to-Analog Conversion in detail.



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Course Outcome :- CO

Chapter Name :- Transmission Media.

Assignment No:-02

- Q.1 What is Guided Media? Enlist its types.
- Q.2 What is Unguided Media? Enlist its types.
- Q.3 Differentiate between Twisted Pair Cable, Coaxial Cable and Fiber Optic Cable.
- Q.4 Explain Satellite Communication with diagram.
- Q.5 Describe construction of co-axial cable with neat diagram.
- Q.6 Describe Fiber Optic Cable with neat labeled diagram.



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Course Outcome :- CO

Chapter Name :- Multiplexing and Switching.

Assignment No:-03

- Q.1 What is Multiplexing? List types of Multiplexing and explain them.
- Q.2 Give difference between FDM and TDM.
- Q.3 Explain Circuit Switching with suitable diagram.
- Q.4 Explain Packet Switching for datagram approach.
- Q.5 Give difference between Circuit Switching and Packet Switching.
- Q.6 Give difference between FHSS and DSSS.



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Course Outcome :- CO

Chapter Name: - Error Detection and Correction.

Assignment No:-04

- Q.1 Explain OSI Reference Model with diagram.
- Q.2 Explain Error is data communication. Enlist different types of transmission errors.
- Q.3 Explain VRC method of error detection with suitable example.
- Q.4 Describe CRC with example.
- Q.5 Explain the functions of Network Layer in OSI Model.
- Q.6 Explain the functions of Data Link Layer in OSI Model.



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Course Outcome :- CO

Chapter Name: - Wireless Communication.

Assignment No:-05

- Q.1 What is Bluetooth? Explain its Architecture with neat labeled diagram...
- Q.2 Explain the terms related to Mobile Telephone System.
- Q.3 Describe Fourth Generation(4G) of Mobile Telephone System.
- Q.4 Explain IEEE Wireless Standards.
- Q.5 Explain the Frame Format of Bluetooth.
- Q.6 Short note on Next Generation of Mobile Communication.