

## **BASICS OF DATA COMMUNICATION AND COMPUTER NETWORKING**

### **2.1 INTRODUCTION**

Computers are used to generate information. Generated information is not useful in itself. The information must be delivered to the right person at the right time. Often information must be transmitted from one location to another. This process is called data communication. Here, we will be concerned with the hardware, software and procedures used in data communication.

Office automation is based on communication; the transfer of information. Advances in communication technology, combined with rapidly evolving computer technology, have made possible much of the progress in the field. Electronic communication consists of telecommunication and data communications. Telecommunication refers to the use of telephone, telegraph, and radio or television facility to transmit information, either directly or via computer. Data communication means the transfer of data or information between computers devices.

### **2.2 OBJECTIVES**

After going through this lesson, you would be able to:

- learn the basic elements of data communication system.
  - describe communication protocols and data transmission modes.
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# Basics Of Data Communication And Computer Networking

**J Spring**



## **Basics Of Data Communication And Computer Networking:**

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*Data Communication Principles* Aftab Ahmad,2003 Data Communication Principles for Fixed and Wireless Networks focuses on the physical and data link layers Included are examples that apply to a diversified range of higher level protocols such as TCP IP OSI and packet based wireless networks Performance modeling is introduced for beginners requiring basic mathematics Separate discussion has been included on wireless cellular networks performance and on the simulation of networks Throughout the book wireless LANs has been given the same level of treatment as fixed network protocols It is assumed that readers would be familiar with basic mathematics and have some knowledge of binary number systems Data Communication Principles for Fixed and Wireless Networks is for students at the senior undergraduate and first year graduate levels It can also be used as a reference work for professionals working in the areas of data networks computer networks and internet protocols

**Data Communications and Computer Networks** Michael Duck,Richard Read,2003 Introduction datacommunications information theory introduction to local area networks Internet protocols

*Computer Fundamentals* Anita Goel,2010-09 Computer Fundamentals is specifically designed to be used at the beginner level It covers all the basic hardware and software concepts in computers and its peripherals in a very lucid manner

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