

S.G.INFOTECH



INTERNET

STUDY MATERIAL

PREFACE

Dear Students,

Internet is a global computer network providing a variety of information and communication facilities, consisting of interconnected networks using standardized communication protocols.

This section of E-Book contains the theoretical aspects of Internet and how the advent of Internet has transformed the world beyond imagination with facilities like e-mail, e-commerce etc.

If this E-Book helps anyone to learn and to use the computer effectively, it will be of great success.

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INTERNET

Internet is one of the most amazing inventions of 21st century in this whole globe. Internet is an acronym for INTERNATIONAL NETWORK. In fact internet is a huge library of all type of information like Medicine, IT, Maths, Commerce etc.

Network can be defined as a communication way between two different systems so that they can share, transfer and exchange information with one another. The connection can be through fiber optics, microwaves as well as communication satellites. By using a network of computers people or organizations can share their resources even if they are in a far distance, transfer data in a reliable way, save money and time.

History Of Internet

The internet evolved from a small computer network set up in 1969 by the American defense department agency – the Defense and Advanced Research Project Agency (DARPA), who realized the need for an easy way to exchange military information between scientist and researchers at different locations. A simple network of four computers, known as ARPANET, was therefore established.

The system became popular, and although the name was changed to ARPANET, 1972 it had grown to include 37 computers. At the same time, the way in which network was being used was changing. As well as just using the system to exchange important, but boring, military information, ARPANET users started to send mail called e-mail (electronic mail) to each other. The use of the internet grew by leaps and bounds as its tremendous capacity to transfer information in a fast, accurate and inexpensive way was applied by educational institutes, government agencies, and private organizations and lately by business houses or business and commercial transactions.

The internet is used by people because of its educational qualities, for fun, for personal development, for profit which has given rise to e – commerce (electronic commerce).

Internet Governance

The authority for the technical direction of the internet rests with the internet society (ISOC). The professional society is concerned with the growth and evolution of the World wide internet, with the way in which the internet is and can be used, and with the social, political and technical

issues. The four groups in the structure are the ISOC and its board of trustees, the Internet Architecture Board (IAB), the Internet Engineering Steering Group (IESG) and the Internet Engineering Task Force (IETF).

Generally there are three types of network:

1. Local area network : This type of network sets in a local area like inside an office or institution. Here computer systems are connected or linked through cable to share the resources.
2. Wide area network : A WAN covers a large geographical area, often a country or a continent. This kind of network is done using satellites as well as optical fiber cables.
3. Metropolitan area network : Basically, it is an expansion of LAN and normally uses similar kind of technology. It may cover a group of nearby offices, inside a city or between cities.

Advantages Of Internet

1. E- mail facility.
2. Online chatting.
3. Collecting information on any subject or organization.
4. Entertaining movies.
5. Availability of different software.
6. Games

Internet Service Provider (ISP)

A ISP is a company that maintains a network that is linked to the internet through a dedicated line, usually a high speed link. An ISP offers use of its dedicated communication lines to companies or individuals who can not afford a direct connection. Using a modem, one dial up to service provider whose computers will connect him to the internet usually for a fee.

A modem is a device that is used to get connected to internet if the person is using telephone line. The word modem is an acronym for Modulator and Demodulator. Data is transferred in analog waves through telephone lines and the computers understand only digital information. So, to make the task of computers easier to understand information, modems are used, which can convert analog information to digital information and vice versa.

