

## Application of Internet in teaching and learning

**Objectives:** At the end of this lesson you shall be able to

- define internet
- list the application of internet
- explain the applications of internet in teaching and learning.

### Definition

**The Internet** is a global system of interconnected computer networks that use the standard Internet protocol suite (often called TCP/IP, although not all applications use TCP) to serve billions of users worldwide.

- It is a *network of networks* that consists of millions of private, public, academic, business, and government networks, of local to global scope, that are linked by a broad array of electronic, wireless and optical networking technologies.

### History

The Internet was created in the United States by the “United States Department of Defense Advanced Research Projects Agency” (known as *DARPA*). It was first connected in October, 1969.[1] The World Wide Web was created at CERN in Switzerland in 1989 by a British (UK) man named Tim Berners-Lee.

### Application of Internet

The Internet is used for many things, such as

- E-Mail
- Online Chatting
- File sharing and transferring
- Entertainment
- News group .use net
- Social networking
- Web pages
- Blogs
- Interesting web sites

### Importance of Internet in Education

The Internet has introduced improvements in technology, communication and online entertainment, but it is also incredibly useful for education purposes as well. Teachers use the Internet to supplement their lessons, and a number of prestigious universities have opened up free online lectures and courses to everyone. It has even allowed retired teachers to read and educate children in

poorer countries. Widespread use of the Internet has opened up a substantial amount of knowledge to a much broader range of people than ever before.

### Enhanced Lessons

Teachers can make use of the Internet by giving students extra resources and material from the Internet, such as interactive lessons and educational games. Many college courses use a “hybrid” model where many lessons are done online, requiring fewer in-class meetings. This saves students from having to commute to campus with their heavy textbooks every day. Tests, homework, collaboration with students and research can all be done from any computer with Internet access. Even for non-hybrid classes, the Internet is used as an addition to normal studies.

### Study and Research

The Internet contains a wealth of knowledge that is available instantly upon any search. Because of this, the Internet has superseded libraries as a source for information gathering and research. Many teachers will now ask students to visit specific websites to study from home, and online encyclopedias provide masses of knowledge on almost every topic imaginable. The variety of sources allows students to pursue subjects in much greater detail rather than being limited to whatever the teacher sends home.

### Communication

It used to be that students that forgot work, missed a lecture or couldn't remember an assignment were out of luck until talking face to face with a teacher or a classmate. However, the Internet allows instantaneous connection to your classmates and teachers. Improving communication between students and teachers allows teachers to assist students without having to stay after class. It also allows students to have greater efficiency when working on projects with their peers when everyone cannot attend or asking for clarification when something is unclear.

## Accessibility

A number of universities, such as Harvard, Yale and Stanford, have opened up free courses on a variety of subjects that are accessible to anyone for free. These typically come in the form of lectures on video, but some also have notes attached. This means there is easy access to plenty of free lectures without emptying your bank account to pay tuition. The Internet also makes education accessible to impoverished communities. The “Granny Cloud,” for example, made use of Skype as a number of volunteers, mostly retired teachers, read stories aloud over Skype to children in India to teach them how to read.

## Explain the application of internet

Modern equipments like Television, Computer, multimedia and Internet are used for effective presentation for fast and wide range of communication.

Many organizations, Industrial houses and Business enterprises, and many other areas of Government, non-Government and private sector have been using Internet for delivering education and training at a distance, with in the boundary of the organization, as also across borders. Its use involves an electronic mail system and access to library.

A learner anywhere from far away to the next-door neighbour can be taught virtually through the Internet. Besides a whole range of telecommunication media viz., computer conferencing, audio graphics, video conferencing are available for Distance education. Communication media like CD, DVD, and other computer based information are used in ICT.

Media can be synchronous and asynchronous. In an asynchronous medium like computer conferencing, both learner and tutor get time to think their respective responses and prepare messages to be put into their machine at their convenience for the conference.

One can read and re-read messages at one's convenience, rather than at a set time. The e-mailing facilities enables transmission and downloading of information, communication and interaction with the teacher and peers, and complete a course work or a course of instruction.

While the Internet has not changed the expertise of the teachers and learners to teach and learn, it has definitely helped them to improve their skills and ways of operation. In face-to-face situations, its use has increased flexibility in delivery & interaction.

In open distance, flexible and multi channel learning, Internet has changed the concept of space & time and facilitated recognition of prior learning transfer of credits, and joint degree programmes through modernization, credit transfer, and accreditation.

The role of teacher has shifted from teaching to facilitating access and comprehension of information and learning resources.

Virtual universities, which are operated through Internet and other telecommunication technologies replaces or compensate both the campus based as well as home based learning environment.

It uses multimedia, and other communications and information technologies including www, through its virtual university learning environment, for providing information, registration, payment of fees, distribution of learning materials, library services, lectures, seminars, submission & evaluation of assignments, taking exams, trainer-learner interaction, both synchronous and asynchronous communication, and conferring of degrees. Therefore audio visual aids are playing a vital role in the field of Information and Communication Technology.

