

**Distance Learning: definitions and applications**<sup>1</sup> Mohammad Abedi, <sup>2</sup> Ali Badragheh<sup>1,2</sup> Department of Environment, Damavand Branch, Islamic Azad University, Damavand, Iran\*Corresponding author: [abedi114@yahoo.com](mailto:abedi114@yahoo.com)

**Abstract:** Historically, most distance education courses were vocational in nature, but today courses are offered for academic, professional, and avocational purposes for students of all ages. There are numerous specialized programs, such as those for blind persons and for parents of small children with hearing impairments. Distance education is available in practically any field, from accounting to zoology. Courses are offered in gemology, high school diploma, journalism, lock smiting, child day care management, yacht design, and many fascinating subjects. Distance education courses also vary greatly in scope, level, and length. Some have a few assignments and require only a few months to complete, while others have a hundred or more lesson assignments requiring three or four years of conscientious study.

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**Introduction:**

enjoying and giving publicity to any of technological tools with the aim to facilitate and accelerate the training process, as well as increase the quality and quantity of knowledge quality and knowledge of a serious intelligence community needs to integrate and standardize the educational system society is.

Hence, considering the position and role of education in the third millennium on the basis of ICT is also a serious approach to the topic with the knowledge community centered on learning and general trends of technological tools to enjoy much of the information and Find the appropriate place in the information society Third Millennium That actually can be a global community and is without limit is undeniable-and-run. Guidance and therefore move in the direction of society should be education and technology for comprehensive pandemic done. Considering the above definitions and with the knowledge and attitudes towards the third millennium and the desirability and some weaknesses in the achievement of certain standards and dynamic structures in order to achieve a knowledge based society, there is. In the present circumstances to provide our information infrastructure development and integration inevitably link the elements and tools that they are as indicators of technology education and technology education will be remembered. In the new context of combining these two indicators comes to training facilities and a variety of tools that will provide guidance and development in information will be very effective While the effect of these two indices of body functions and its other fields (favorable to foster new ideas provides. Technologies training web-based technology as one of the most effective learning tools in educational issues have been identified and a total of E-learning as it is referred. . But if the scientific and cultural

infrastructure with this technology's Day is not coordinated development of information will be obtained. This weakness caused by lack of growth and development of training required for pandemic knowledge of existing technology is. In many systems of scientific tools and capabilities needed to provide hardware and commissioning are still technological problems resulting from lack of knowledge of poverty and poor education in these centers to be seen.

In other words, the country still in the feasibility assessment and appropriate to make public the necessary training for operation and application of scientific principles and technological tools is has been done and why certain movements and sometimes non-normative point will not be able node an unlock.

The conditions and according to the capacity of developing countries and training facilities required a knowledge-based society feels is felt. If all processes in technology education and technology optimization and standardization of the Hungarian education should go, and appropriate channels that the best option in this area could benefit from state universities is capabilities.

According to the information in the development of any society should take half of the world to progress until the necessary coordination and synchronization global developments so as to accept the design structure of a knowledge-based society have a special place for the University and respect the role of education and technology was In designing a model with global standards of dynamism and flexibility at first be necessary to select a sample that the facilities and communications needed for this purpose provide action and then determine optimal cognitive deficiencies than Hammett and weaknesses push.

No doubt the experiences of implementing these standards and to develop troubleshooting information using technological tools would be much more economical. That if we develop a range of information from a city university level and conduct more successful we'll be more acceptable was. Because the utilization and application tools and step up the information they've been successful. Therefore the most important first step needed to coordinate and synchronize technology education and educational technology standards and capability in the high user acceptability of the world is also enjoyed.

#### **Definition of distance learning:**

in distance education teachers often are separate and comprehensive. Preparation of educational materials, supporting learners under the supervision of a training center takes place almost never do as a group are not. For services to education and electronic learning aids such as printed materials, computers and the Internet rely on.

Another look at the educational system of a new e-business and artistic and is a comprehensive solution to the institutions that want to move in the direction that technology and change their teaching methods and environments are possible to achieve the new educational approach provides.

#### **Benefits of Distance Learning:**

Benefits and opportunities that distance education provides, include:

- training a wide range of audiences.
- meet the needs of students and students who can not attend in place.
- Possible connection between students and students with cultures, beliefs and experiences are different.
- Benefiting from coaches and speakers who do not live in the country.

#### **Educational methods in distance learning:**

Today, under the new system replaced the traditional systems of learning and learning week (ie tutoring methods, lectures) are:

##### **- Multimedia courses:**

These courses and widely used elements of image, communication, graphics and simulated components, animation and communication elements for guidance and tips, and talk back on course and curriculum issues are held.

##### **- Enhanced communication mechanisms:**

The mechanism of any texts simultaneously, and asynchronous audio-visual communications to protect you. This case allows students to practice on topics learned will give.

##### **- Written test:**

thus, question and test via a distributed communication network, are corrected and returned. These exams through video conferencing support and runs.

#### **-Virtual Seminar:**

thereby different groups of students in different geographical environments linked together makes.

##### **- Collaborative virtual laboratories:**

the laboratory of the Group's activities are supported. Workshops such as software engineering.

##### **-Smart academic factors:**

academic factors that inform intelligent, support and guidance students pay.

#### **Remote educational tool:**

distance learning tools and supplies various uses. These tools in four main courses are:

##### **A - Audio Tools:**

Audio tools include training such as two-way interactive telephone, video conference, shortwave radio and a strain of tools such as audio tape and radio.

##### **B - Image tools:**

including slides, films, video tapes and video conferences.

##### **C - Data:**

computers as electronic data are sent and received. Because the data word description for a wide range of educational tools is used.

Computer applications for distance education are varied and include the following:

- 1- Training to Computer Management.
- 2 - Computer Assisted Instruction.
- 3 - through PCs.
- 4 - e-mail, telegraph, computer conference and the World Wide Web simultaneously.

##### **D - Print:**

The main element of distance education programs, particularly in the exchange and delivery system information tools are considered.

#### **Key factors in the process of distance education:**

the process of remote training, the following factors contribute:

##### **- Students:**

Regardless of educational content, role and main element in the learning process students are responsible.

##### **- Coaches and Teachers:**

Success depends on a lot of educational activities the ability, skills and knowledge are the coaches and professors.

##### **- Facilitators of communication:**

Facilitator bases, as the bridge between students and mentors are. Must base expectations of teachers and

educational needs of students and service coordination and communication to create.

- Support staff:

One of the important pillars of any development of distance education programs, by development group finds. Operational support staff such as student registration, copy and distribute their resources, order textbooks, security and copyright, and are responsible for the report.

- Management:

The group decision makers, builders and judges are considered to be educational and should be considered among the factors above, establish the correct relationship formation.

### What is Distance Education?

Distance education is education designed for learners who live at a distance from the teaching institution or education provider. It is the enrollment and study with an educational institution that provides organized, formal learning opportunities for students. Presented in a sequential and logical order, the instruction is offered wholly or primarily by distance study, through virtually any media. Historically, its predominant medium of instruction has been printed materials, although non-print media is becoming more and more popular. It may also incorporate or make use of videotapes, CD or DVD ROM's, audio recordings, facsimiles, telephone communications, and the Internet through e-mail and Web-based delivery systems. When each lesson or segment is completed, the student makes available to the school the assigned work for correction, grading, comment, and subject matter guidance by qualified instructors. Corrected assignments are returned to the student. This exchange fosters a personalized student-instructor relationship, which is the hallmark of distance education instruction. Historically, most distance education courses were vocational in nature, but today courses are offered for academic, professional, and avocational purposes for students of all ages. There are numerous specialized programs, such as those for blind persons and for parents of small children with hearing impairments. Distance education is available in practically any field, from accounting to zoology. Courses are offered in gemology, high school diploma, journalism, lock smiting, child day care management, yacht design, and many fascinating subjects.

Distance education courses also vary greatly in scope, level, and length. Some have a few assignments and require only a few months to

complete, while others have a hundred or more lesson assignments requiring three or four years of conscientious study. Since 1890, more than 130 million Americans have studied at DETC member institutions, including Franklin D. Roosevelt, Walter P. Chrysler, Walter Cronkite, Barry Goldwater, Charles Schulz, and many other distinguished alumni of DETC members. Unlike most distance education courses offered by traditional colleges and universities that are semester and classroom oriented, with courses offered by most of the DETC-accredited institutions you can study any time and anywhere. Distance education is especially suited for busy people who wish to increase their knowledge and skills without giving up their jobs, leaving home, or losing income. You learn while you earn. Many courses provide complete vocational training; others prepare you for upgrading in your present job, without losing wages, experience or seniority.

### What is Distance Learning: Definition of Distance Learning?

Distance education or distance learning is a mode or education which provides its service online, via specially designed Internet applications (called e-Learning software application), to individual students who study from home or any other convenient place of their choice, as long as it has an Internet connection. It is called distance learning, because students can learn "at a distance", i.e. without the need to commute to remote campuses and be present during classes in person – Distance students study from home, via computers.

### The Distance Learning Main Aspects

Let us define and consider some features it provides:

**1. No Physical attendance:** The traditional model of education requires regular physical attendance in classes in a specific geographically located campus. This has always been both a source of interest and a source of difficulties for many students. It requires strict attendance during the day only and entails travel expenses and time spent commuting instead of studying.

The distance learning model eliminates physical campuses, eliminating the need to waste time and money on travel. It allows students to take courses during individually scheduled hours in any time of

day or night. It means, furthermore, than now it is possible to attend any institution, regardless of how "where" it is located geographically – all online institutions are located online and admit students from any country, no matter how remote. It should be noted that some online education programs do require occasional physical attendance on specially designed sites, most often for the purpose of taking an exam.

**2. High-Quality Education:** A very important point to be aware of is that Distance Learning becomes increasingly recognized as high-quality education. That is, it is not simply a poor substitute to the traditional model, but very valid option for anyone to take.

**3. Human interactions:** Distance Learning is often criticized for its lack of real human interactions, but more and more courses are offered using real-time live video lectures, in addition to email, chat, message boards, and forums for communication.

**4. Multimedia:** In addition, online courses allow uses of multimedia which are impossible in traditional classes.

**5. Continues Education – Or adult Education:** The segments of society currently most enthusiastic about online education are primarily adults who work full time and parents. Tuition are either a little lower or compatible for those for traditional education.

#### **Conclusion:**

In general, new methods of educational systems to countries around the world as a necessity and need for learning and training opportunities to study in areas with different climatic features and conditions of learning and education according to their gender and cultures, has been. Each method is mentioned with regard to changes in features and creates an education system, and evaluation is used. Judgement of distance education in an educational way, first as a necessity to eliminate barriers to educational climate and geographical areas, age and gender restrictions learners began their work And more in a death education system, especially in the philosophy and goals based on theories of learning theories have evolved to find and promote professional growth. Approach to distance education with regard to the necessity of education in countries formed.

Emergence and development of information societies is the consequences of industrialization. Despite the diversity of information in various forms of media in local, national and international, access, exchange

and use of various information easier than last time is. Information society, a member of your buddies know that open information system in terms of geographical location and the last 25 years, organizational development, are limited. Distance learning faster than other forms of training has been. Growth factor in the economic interests of this type of educational approach, flexibility and remove the distance can be named. The methods of distance education, required for building physical education is not providing services. Teachers and trainers in this method - compared with traditional methods - and have more opportunities to more people than are being trained. In this type of teaching style of each person in each academic field, and each job can be arbitrary in time and space, trained without having to leave the house for work or business is education. This method requires that students are dispersed over long distances provides. Distance learning advantages of distance education in comparison with traditional education, the need for physical locations and training programs limited to no specific time period. In this type of teaching style, learning for life without possibility of spatial and temporal constraints for each individual there. In distance education, problems related to lack of qualified teachers and appropriate educational environment - as it posed in the traditional method of M is - is resolved. In this way the use of advanced features in digital libraries and search the various sites during the study, time and cost savings are.

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