



INFORMATION AND COMMUNICATION TECHNOLOGIES IN EDUCATION

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Annotation

We all know that every university or educational institution strives to create its own virtual information learning environment based on modern technologies to manage its educational process. By now, creating a virtual information learning environment there is no need, because different types of software packages adapted to the Web environment are created as a result of the collaboration of passionate programmers and employees working in the field of education, as well as support by education-oriented foundations, free and open source software. This article provides an analysis of a set of free and open source software that allows you to organize the distance learning process. The analysis of the software packages presented in the article is the result of many years of scientific research.

Keywords: Distance learning, academic institutions, technical skills, communication, human-computer interactions.

In distance education, the Internet is used as the main source of communication, and teachers and students communicate remotely. The main means of communication are tuition fees, study materials, assignments in various forms, proof of graduation. Systematized in conjunction with the centralized management of distance education we can meet.

Many distance learning professionals and academics acknowledge that this is a simplified version of the teaching method [1,2,3]. The use of innovative information and communication technologies raises questions about the effectiveness of distance learning compared to the traditional classroom format.





The topic of much debate right now is whether or not there will be an increase in online courses, and has the use of this technology become a traditional classroom environment? In the study of distance learning, researchers consider external factors (computer efficiency, technological factors, learning design and teacher level) and those that are classified as acceptance factors in distance learning (ease of use and acceptable benefits) [3,5].

Technical problems and low student technical skills are some of the biggest obstacles for researchers to study online. Distance learning is one of the new areas of education and is a widely used learning approach in academic institutions. Most of the training is online mode.

Distance learning technologies allow teachers to remotely deliver learning resources to course learners. These learning technologies can be used on their own or in online pedagogical methods [2].

Online learning is directly related to Internet technology, while well-executed content that allows for the use of content and learning tools that occur in human-computer interactions, such as online conference and email communication the teacher can encourage the development of a detailed and complex understanding.

Advantages of distance learning:

- 1) receive information within 24 hours;
- 2) modern materials;
- 3) self-education;
- 4) optional courses;
- 5) economic efficiency;

Distance education can help explain why universities today have factors for success as part of their online learning strategies.

Materials for distance learning needed success is very important for institutions. Successful and sustainable adoption requires an effective combination of pedagogy, technology, resource management, and other factors.

Features of distance learning systems studied:

- 1) protection of intellectual property;
- 2) compatibility with the e-learning environment;
- 3) offering some learning resources to help faculties and universities develop an online environment, such as creating e-learning.





- 4) the content of the e-learning course;
- 5) providing e-learning courses;
- 6) virtual platform of e-learning;
- 7) Measure and evaluate the success of the e-learning course.

Quality indicators of e-learning to create a pedagogical basis or create the necessary conditions for success.

- 1) Implementation of e-learning;
- 2) institutional support;
- 3) course development;
- 4) study and teaching;
- 5) study the content of courses;
- 6) student support and assessment
- 7) support and evaluation of teachers

Factors for assessing the quality of online education are as follows:

- 1) access;
- 2) study and effectiveness;
- 3) student support;
- 4) economic efficiency;
- 5) satisfaction of the faculty;

From the above details, it can be seen that there are many factors that affect the success of online education implementation, which can help higher education institutions increase the effectiveness of the online learning process.

Institutional Management Institutional management is essential for the success of a particular level of management. These are business-based processes that focus on issues that are promising and affect the organization (e.g., business administration, academic affairs, student service, etc.) [5,6]. It is important to carefully plan your online training courses, including the following elements.

Learning environment. An online learning environment is a place where students can access an online resource, use online course and communication systems, get help from a teacher, and get an assessment. People are supportive and comforting learn the best knowledge in a learning environment that gives and is random. Thus, the learning environment should be comfortable in all respects, such as physical, confidence, respect, support and freedom.



At the same time, the online learning environment does not have a significant impact on learning outcomes, but it does have the potential to create an appropriate learning environment for online learning. Course Management System - Facilitates student registration, online course delivery, tracking and testing. It can also be used to manage instructional activities conducted by teachers.

Provides a set of tools and templates that allow the teacher to create online course content relatively easily and then teach and manage this course, including providing a variety of interactions with learners in the course. includes z.

Technical Infrastructure - Technology plays an important role in ensuring learning outcomes as students need to be more interactive and successful in an online learning environment. The university should have supportive quality technologies with up-to-date and relevant transfer information for online courses [3,6]. To make learning easier, it is important to provide access to the simplest and easiest way to learn.

Interactive learning is an effective online learning environment that requires some form of interaction and collaboration between students and students and teachers.

Distinguishes three types of relationships:

- 1) students interact with each other;
- 2) interaction of students and teachers;
- 3) Interaction between students and the external environment.

At the same time, interactive learning should be consistent with the purpose of the instruction to increase student participation in learning activities, such as the proper use of multimedia to deliver highly interactive learning.

Communication tools - Communication resources are used to support interactions between teachers and students (e.g., email, chat room, webcam, etc.). Facilitated communication helps to ensure consistency with expected learning outcomes. However, the tools used depend on the strategic goals, the profile of the target audience, the different advantages, disadvantages, and communication quality of each tool. Therefore, it is important to know how to use the community tools option to select the appropriate tools for online learning.

Help is the best way to set up a student help desk. The online course provides access to useful resources. This includes offline and online resources. Support is not only an electronic guide, but also an opportunity to help students who need direct help, such as terminology and vocabulary. In addition, human resources, such as expert users and trainers, should be available for technical assistance and advice [4,5].





Course evaluation is an assessment of success in online implementation. All steps provide an online quality assurance measure. Assessment is an important factor in quality online learning and process planning. Course evaluation includes formative assessment in project management and summative assessment in the implementation plan.

The assessment process should cover all aspects of the online course to ensure that the systems achieve the course objectives [9]. This is the last step in ensuring that there are no barriers to learning online learning programs.

Distance education is rapidly becoming a popular teaching method among students around the world. This trend is also seen in schools and universities, with several higher education distance education institutions using online education to support its learning activities. If an organization wants to succeed, it is necessary to determine the direction of the online course that needs to be implemented.

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