

## MASSIVE OPEN ONLINE COURSE BASIC REQUIREMENTS FOR DIGITAL EDUCATIONAL RESOURCES

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### Annotation

This article describes the possibilities of mass open online courses, the basic principles of organizing online training, the requirements for Mass open online course digital learning resources.

**Key words:** public, open, online, course, videos, requirement, pedagogical requirement, technical requirement, psychological requirement, didactic requirement, methodical requirement, methodical requirement

Public open online courses are an innovative tool for organizing the educational process, facilitating the process of using e-learning resources for learners, creating conditions for the effective organization of the educational process.

In the world practice, the widespread introduction of online forms of education in the process of training specialists in higher education institutions, the use of open online courses in the development of mixed education (online / offline) technologies is considered a pressing issue.

Designed for open online course-e-learning in OOOK format, including thematically related video lectures, additional training materials, presentations, standard and non-standard test assignments, provides continuous communication of all participants of the learning process on a specialized online learning platform.

Training through online courses is less costly and more effective than traditional training systems.

Basic principles of organizing online learning;

- the ability of a group of students of any age to learn, ie flexibility in time and space;
- Possibility to choose high quality training materials;
- the ability to conduct the teaching process with a high level of transparency and efficiency.

Online teaching is pedagogical;

- be considered as a specific direction;
- availability of individual and differential approach to teaching and learning;
- The ability to take into account the psychological characteristics of the student;
- Strengthening the motivation of students to study, improving and developing their knowledge;
- Ensuring interdisciplinary continuity;
- use of problem-based learning methods;
- Enrichment with modern teaching methods;
- the ability to consistently use group and individual methods.

The requirement is that the information uploaded to the proposed digital learning resource be placed in the appropriate order.

Students will learn the basic concepts of computer science and information technology for the effective use of e-learning resources in a public open online course; functional capabilities of computer technology; must know modern operating systems and their basic commands and have the skills to use the Internet.

A number of recommendations have been made by domestic and CIS scholars on the requirements for the creation of a public open online course e-learning resources. In particular, according to A.Jamolov, the following basic psychological and pedagogical requirements should be taken into account in the design of e-learning resources:

- Ensuring the formation of the content of educational activities in accordance with the basic principles of pedagogy, psychology, cybernetics, system design theory;
- providing the student with information about the goals of education and the achievement of the goal;
- Motivation should not be at the expense of computer self-interest;
- be consistent with the level of difficulty of science assignments and the psychophysiological capabilities of students.

According to AV Mukhamedshina, the technology of creating e-learning resources in the sciences is a rather complex process, and for the development, design and implementation of pedagogical scenarios recommended its implementation in the following stages: definition of didactic goals; development of the structure of the textbook; performance of technical works; identification of deficiencies and their correction through testing in educational institutions; development of methodological proposals and recommendations for use in the educational process.

According to S. Tursunov, the creation of e-learning resources should include requirements for psychophysiological, didactic, content and structure, sounds, images and colors, continuity of program work, interface. Image color requirements. The use of different colors in public open online courses provides great opportunities to separate the content of information, make it easier to read, to highlight important information.

In our opinion, the following requirements should be followed when creating a public open online course e-learning resources:

- be based on high-quality educational materials that reflect the current level of development of the subject area;
- have a well-thought-out structure of e-learning resources, balanced in size and complexity of science modules and tasks;
- Training sessions are mainly in the form of video lessons;
- The student who has not mastered the information on the subject once has the opportunity to watch the video lesson again;
- Development of various learning tasks to strengthen the knowledge of students;
- Development of standard and non-standard test assignments and their use in place of educational assignments.

The course should contain all the materials needed to carry out the planned work within the course and to achieve the planned learning outcomes. In the course, students can cross-check or work together.

A popular open online course is a highly organized e-learning tool. There are a number of requirements that must be met when creating e-learning resources, resulting in a resource that meets the goals and objectives of the course.

The main **pedagogical requirements** for the creation of public open online course e-learning resources:

The structure and content of the public open online course should be designed for in-depth study of the study material, as well as its relevance to the curriculum of the studied subject; the content and structure of the public open online course meet the requirements of the educational standard; the public open online course itself should have a system of instructional sections of problem-solving and research assignments.

**Psychological requirements.** Public open online course e-learning resources should be developed taking into account the suitability of students for their level of development i.e. the characteristics of psychological processes such as perception, attention, thinking, imagination, memory; a public open online course should be able to continuously stimulate students' high level of motivation through high-level demonstration, timely feedback. In addition, the e-learning resource in the course should be designed taking into account the age of the learners, basic knowledge and should be aimed at the development of figurative and logical thinking.

**Didactic requirements.** The public open online course provides a variety of e-learning resources and information disclosure; taking into account interdisciplinary logical interdependence; in a public open online course, the student has the opportunity to perform a variety of control tasks for the gradual mastering of e-learning resources; creation of conditions for individual characteristics of students, knowledge, creative approach, independent research, self-study; it is necessary to create e-learning resources using problem-based learning forms and types of visual education.

**Methodical requirements.** A public open online course implies the specificity and features of the subject, its laws, research methods, the possibility of introducing modern methods of information processing. E-learning resources created in the selected subject define the following methodological requirements: creation of e-learning resources based on the interdependence of comprehensible, figurative and moving components of the provision of resources; provision of e-learning resources in the form of a high-order structure; taking

into account interdisciplinary logical interdependence; creation of various forms of control tasks for the learner to gradually master e-learning resources; the student's activity in the course is taken into account at the end of the course.

**Technical requirements.** Compliance with the technical level of computers and devices in the educational institution used in public open online courses; be suitable for less experienced and highly experienced users; reduce the size of images and videos to make them load faster; placement of small tables instead of large tables in the e-learning resource; the learner has the ability to browse e-learning resources in a "forward" and "backward" way; the learner has the ability to set the size and type of the font, as well as the ability to view any fragment at any time; opportunities should be created to reverse and reconsider the erroneous actions made by the learner during independent work.

Reading is done in the audience's spare time. It doesn't matter if you read during the day or at night. Training materials will always be available on the platform. To do this, each student has a personal account, from which there is access to the electronic library. All the information needed to prepare and submit control assignments is available on the platform.

The main drawback of the traditional learning process is that students are not taught not to be afraid of mistakes and to process. If a student makes a mistake in the process of mastering - is punished in the form of a bad assessment. There is almost no opportunity to re-learn, especially in the current control.

This error tends to be corrected by remote technology, which allows the listener to work in a calm environment and learn what he or she wants. The online courses provide a very comfortable environment for students to work, relax and learn.

Thus, there is a growing interest not only in the university, but also in the school, the system of professional development, that is, online education in all forms of continuing education.

The peculiarity of online courses is that they provide students with the necessary knowledge to use advanced information resources through modern information technology. Information resources: data and databases, computers, including multimedia, education and control systems, video and audio recordings, electronic libraries - along with traditional textbooks and manuals, create a learning environment that is available to a wide audience.

The course is an integrated process that includes not only the text of the lessons, but also the search for relevant information in the networks, correspondence with course curators and other students, access to databases, periodicals distributed through the Internet.

- use different forms of educational motivation, taking into account the characteristics of a particular group of students,
- Recognize an individual schedule or method of teaching students,
- Teamwork or discussion is used to discuss learning issues.

Thus, it was necessary to present the content of education in modern conditions and to form a new culture of working with it. One promising solution in this area is to replace traditional paper textbooks with new generation online textbooks used on modern mobile devices. Online education allows the implementation of two basic principles of modern education - "education for all" and "lifelong learning".

In conclusion, the processes of modernization and reform of education are particularly evident in the higher education system. Here, in the teaching process, new technologies must be constantly introduced in order to improve the quality of education. It is obvious that the process of reforming the education system is a necessary factor in the ongoing socio-economic reforms in the country and is of a permanent nature. In this process, it is very important that the implementation of advanced foreign experience and modules remains one of the priorities in ensuring the quality of higher education.

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