

# Massive Open Online Courses and Their Opportunities

Usmanova Gulnoza

Researcher TDPU in the name of Nizami

## Annotation

This article describes public open online courses and their possibilities. Also included is an analysis of public open online courses offered by prestigious universities around the world. The role of public open online courses in the educational process is revealed.

**Key words:** public, open, online, course, certificate, free, educational, video, internet, non-commercial, test.

In the last two centuries, the knowledge to be studied has expanded to such an extent that we are forced to call previous scientists lexicographers, lexicographers. Why? Now it has reached such a level that it is impossible to study astronomy, geography, physics, chemistry, medicine, mathematics, philosophy, etc. at the same time. Along with fundamental sciences, knowledge related to humanities, humanity, and society has increased. Everything is focused only on serving for the development, comfort and lightening of the burden of humanity. We can easily call the 21st century the century of technology and related knowledge.

The Massive Open Online Course (POOC) is a move toward greater openness in higher education. The events of OOOK are characterized by the widespread deployment of open education, online learning and the changes taking place in higher education today in the context of the globalization of education and budget deficits. They can be seen as an extension of existing online learning approaches in terms of access and scalability of courses, and they also offer an opportunity to rethink new business models that incorporate open learning elements. A number of OOOK's platforms have been developed in collaboration with highly ranked universities and offer courses either independently or in partnership with them.

The age that expanded the types, ways, methods of learning knowledge. Several prestigious higher education institutions such as Stanford University, Massachusetts Institute of Technology (MIT) in the USA offer free "online" courses. These classes, which are organized for the first time as an experiment, are open to students from all countries of the world. It is interesting that studying in these courses is absolutely free, and those who successfully complete them are awarded a diploma (certificate) (some courses give a free certificate, but in many courses you can get a certificate after a certain amount of time). An electronic system known as "Open courseware" designed for free and free distribution of educational materials over the Internet was established by MIT about ten years ago. Since then, hundreds of other colleges and universities have followed suit by making their course materials available online for free and open to all. Today, MIT and Stanford University decided to take this practice to a new level. They are now providing not only the course material but also the course itself for free. At Stanford, two computer scientists first created a free online course called "Introduction to Artificial Intelligence". More than 160,000 students from more than 190 countries of the world enrolled in the course. With the help of volunteers, the course materials were also translated into 44 languages of the world in a short period of time. 23,000 of the participants completed the course materials, successfully passed the exams and received a certificate of completion of this course. In 2012, Stanford University launched five more free online courses. The number of students studying in them is close to half a million. The Massachusetts Institute of Technology is also active in this regard. On the initiative of the educational institution, a new non-profit organization named "MITx" was created, which provides free lessons via the Internet. More than one hundred thousand students have registered to participate in the first course opened at "MITx" - "Circuits and Electronics". According to the "MITx" website, at least 20,000 registered students are fully and actively participating in classes. Princeton University, the University of

California at Berkeley, Michigan Ann Arbor, and the University of Pennsylvania are also collaborating on free online courses. These courses are compiled on a website called "Coursera". You can search Coursera for courses by title and course, or by the university that offers them. Another site that offers free classes is Udacity, which was created by experts from Stanford University together with Coursera. Harvard University and the Massachusetts Institute of Technology jointly established a non-profit organization "for free, interactive online education for people of all ages and backgrounds." EdX is, in short, an educational platform, now you can learn English from courses taught at Harvard University, MIT, and the University of California, Berkeley. So far, the Maskur EdX platform has courses on chemistry, medicine, computer science, and physics. Intuit. Official website: [www.intuit.ru](http://www.intuit.ru) is a large Russian Internet university with the possibility of obtaining higher and second higher education, as well as professional retraining and professional development. Full study is paid, but on the Intuit site you can read (listen to) more than 500 courses in various fields: computer science, physics, mathematics, economics and philosophy for free. Nowadays, many courses are also given in the form of video lessons. You can get a free e-certificate upon completion of training courses.

Here are the lectures of the Yandex data diagnosis school. Its main goal is to educate people who are skilled in diagnosis and processing of data and information retrieval from the Internet, especially for Yandex, as well as in the ICT industry.

Courses in the OOOK format are designed to organize an interactive distance learning process, including integrated lectures, tests and tasks that monitor the acquired knowledge, constant communication between the teacher and students on a special Internet site, and a final exam to identify the best students. At OOOK, there is a lot of emphasis on audience interaction, such as through forums, online and in-person communication, viewing lectures together, etc. In the process of studying in open online courses, it is mandatory to complete assignments on time according to the course schedule. A number of factors hinder the development of mass online education: the lack of mechanisms to include OOOK in higher education programs; in the absence of a document confirming the receipt of education, which is important for employers and other educational institutions, etc.

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