Specific Aspects Of The Methodology For Using Cloud Technologies In Virtual Education

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ABSTRACT

The implementation of the content of disciplines related to Virtual technologies is based on the selection of educational tasks, in accordance with ideas that rely on the understanding of the territory of close development and contextual education. With the help of cloud technologies, the choice of content for teaching disciplines related to information technology is carried out in accordance with educational goals and on the basis of the selection of Highlighted Content.

Keywords: Virtual, Virtual Learning, Cloud, Google Chrome, Google Drive, Google docs, Google slides, Google forms, Zoho Creator, Panda Cloud Antivirus, methodology, technology, advantage, disadvantage, security.

Introduction. To better imagine what the cloud means, you can give a simple example: previously, a special software (messengers and programs) was installed on the user's computer. Now it goes to the site of this company whose services email it is enabled directly through the browser without the use of intermediaries and intermediaries.

Advantages of cloud services. Last year, the total volume of the global market in the industry cloud technologies amounted to about $ 40 billion. Some experts believe that by 2020 this figure will reach 240 billion dollars. Russia occupies the 34th place with 250 million dollars.

Disadvantages cloud servers. The need for a permanent internet connection. Remote calculations from information and communication centers, technical and technological problems internet connection can be large. On the other hand, 3 G in the future,

4 G Technology, Satellite and mobile transport environment, this shortage is practically excluded;

the limit of software distribution. Many cloud services provide a minimum set of tools for configuring the service zone. Accordingly, the user often cannot optimally adjust his workplace;

Cloud storage easily solves this problem. When using Google Drive, the user is given 15 gigabytes of free space, which can be used to store and reproduce important information.

To use cloud services as well as to organize an online learning space (Google Chrome);

To use data storage and sharing services for collective or individual use of study materials (Google Drive);

For the exchange of spreadsheet editors (Google docs), including office and office spreadsheets for visualization of study materials and independent work results.

To use the services of working with multimedia presentations to provide educational materials (Google slides).

For the use of cloud services for organizing and conducting electronic tests (Google forms).

To use database management systems to create and modify a database (Zoho Creator).

For the use and creation of collaborative classes and community sites for the placement of educational materials (Google sites).

For the use of cloud technologies in anti-virus protection to study the basic functions of cloud-based antivirus programs to ensure information security (Panda Cloud Antivirus).

As a result of using network services based on cloud technologies, students ' interest in learning lesson lessons increases, learning motivation increases, the efficiency of independent work increases. The implementation of educational assignments of students using such technologies also facilitates their assimilation and leads to the development of students ' skills in working with information and communication technologies.

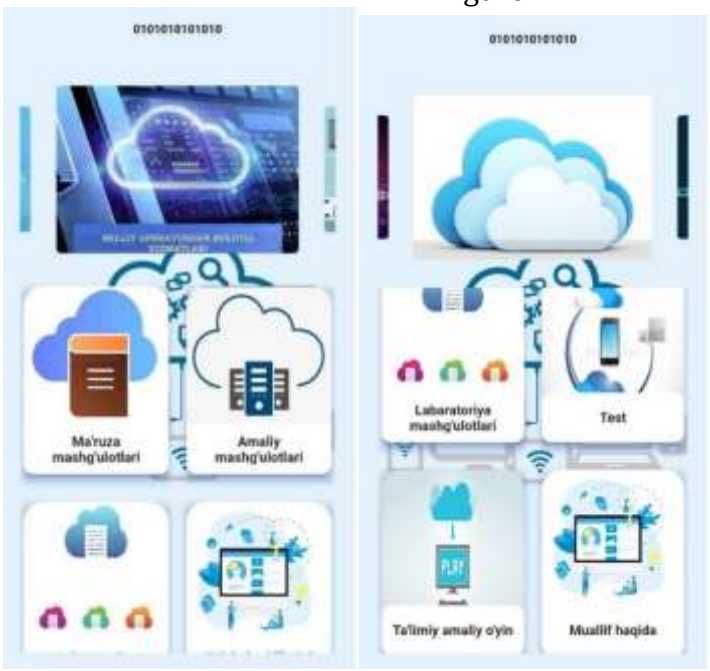
In general, today the following three possibilities of cloud services, which are important for education, can be divided into: storage, data processing and collaborative activities.

Google services are easy to use, understandable and simple. They differ in the possibility of storing large amounts of information and the convenience of control forms. Works on an optional platform with a large amount of instruments for joint and individual work.

Also, Google services make it possible to organize joint work with documents (which is important in project activities), conduct surveys and tests, and organize Electronic Document Management.

From the Google docs service, students and teachers can prepare an abstract, lecture on the topic. The difference from a traditional document is that it is possible to leave interactive footage in them and leave links to external sources, and most importantly, there is the possibility of working together.

Some excerpts from the e - learning course created on the subject" information complexes and technologies in economics " are presented in Figure 1.



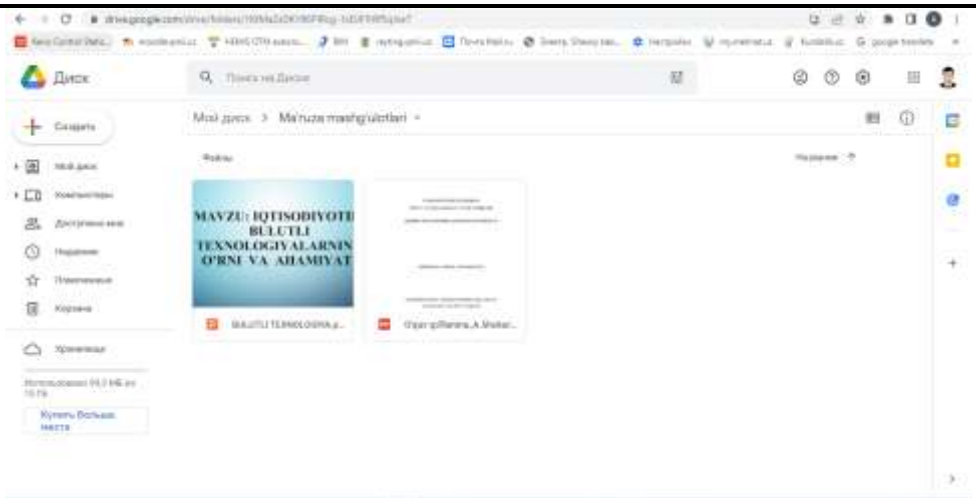


Figure 1. Lecture training Presentations page

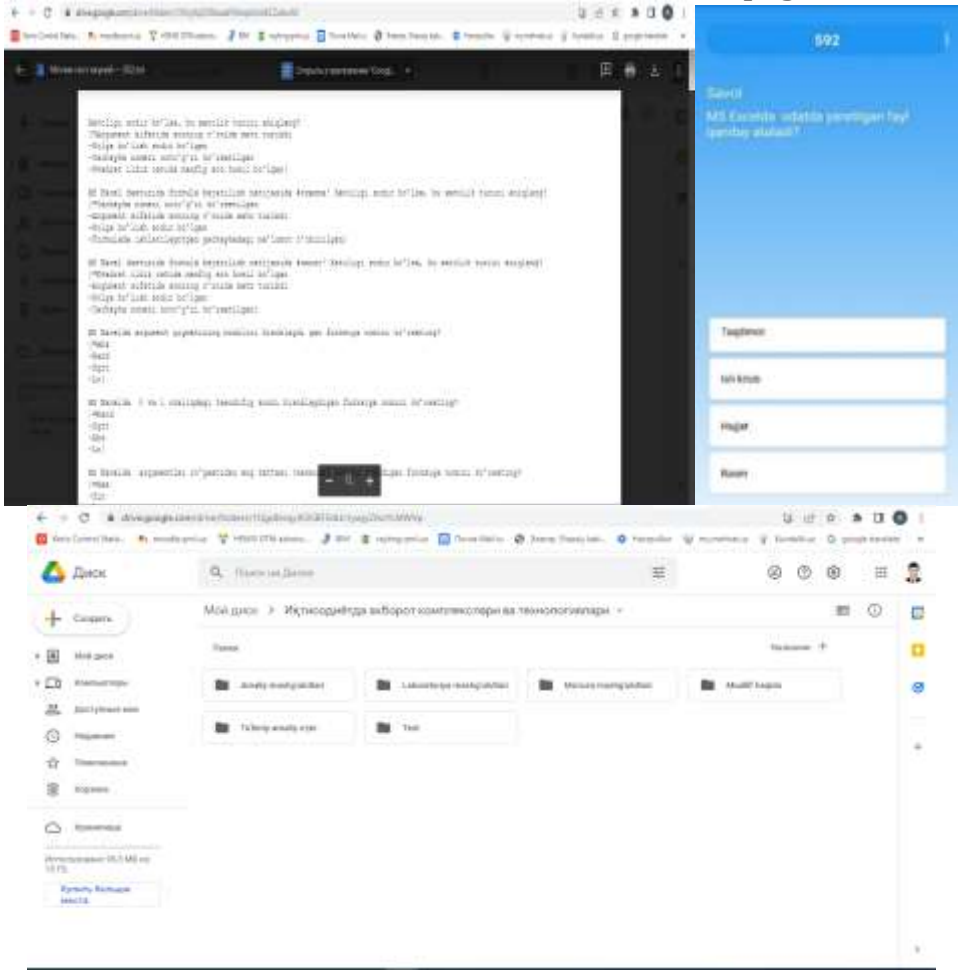


Figure 2. Themed test assignments page

Link of the electronic training course on the science of information complexes and technologies in the created economy.

https://drive.google.com/drive/folders/1Qgs8erqyJK3SBF2dLb1ywjyZAoYLMWVp/bosh-sahifa

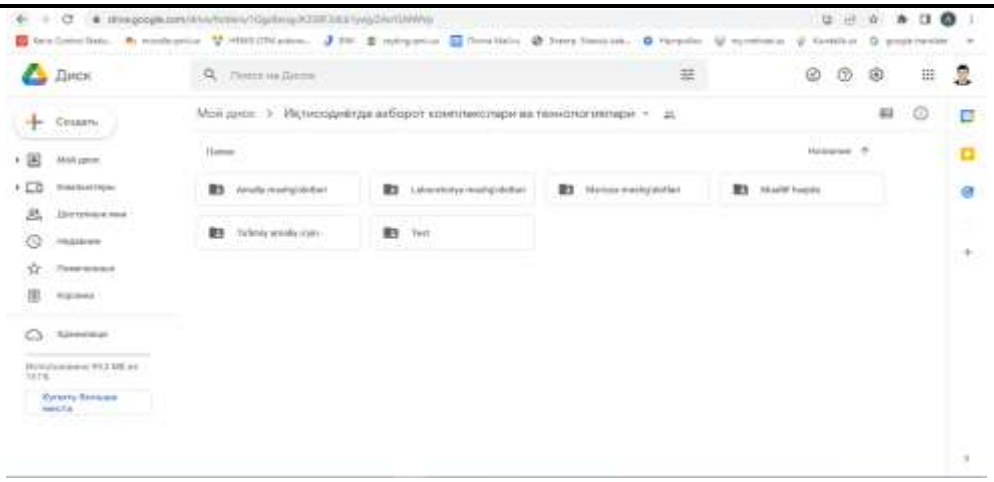
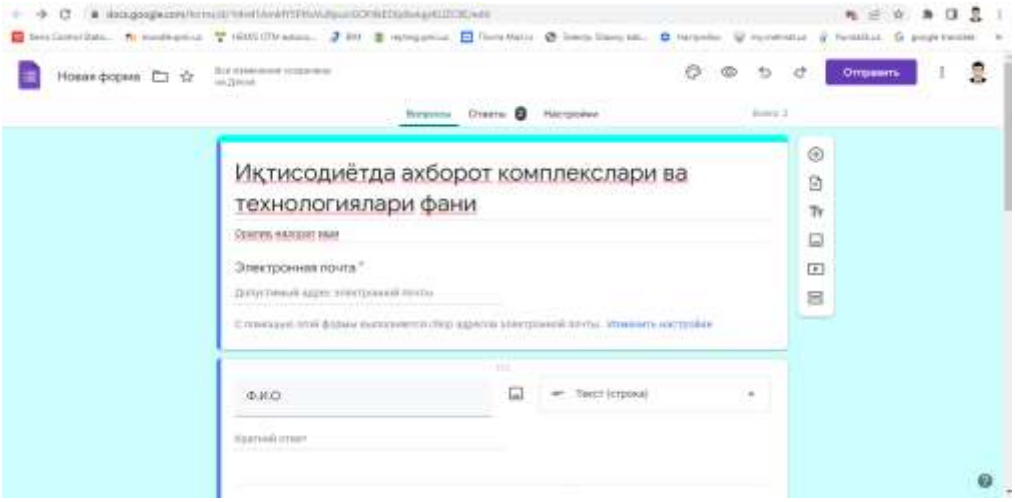


Figure 3. Home

https://docs.google.com/forms/d/1I4n41AmkfY5PJfoVuRpuciGOHIkEDlp8wIqpKLlZC8E/edit

With the help of the Google forms service, it is possible to conduct various types of tests, surveys, quizzes, create surveys. When creating a form, a Google spreadsheet is created automatically, in which the results of completing tasks are collected, a convenient view of the answers to the teacher is provided.



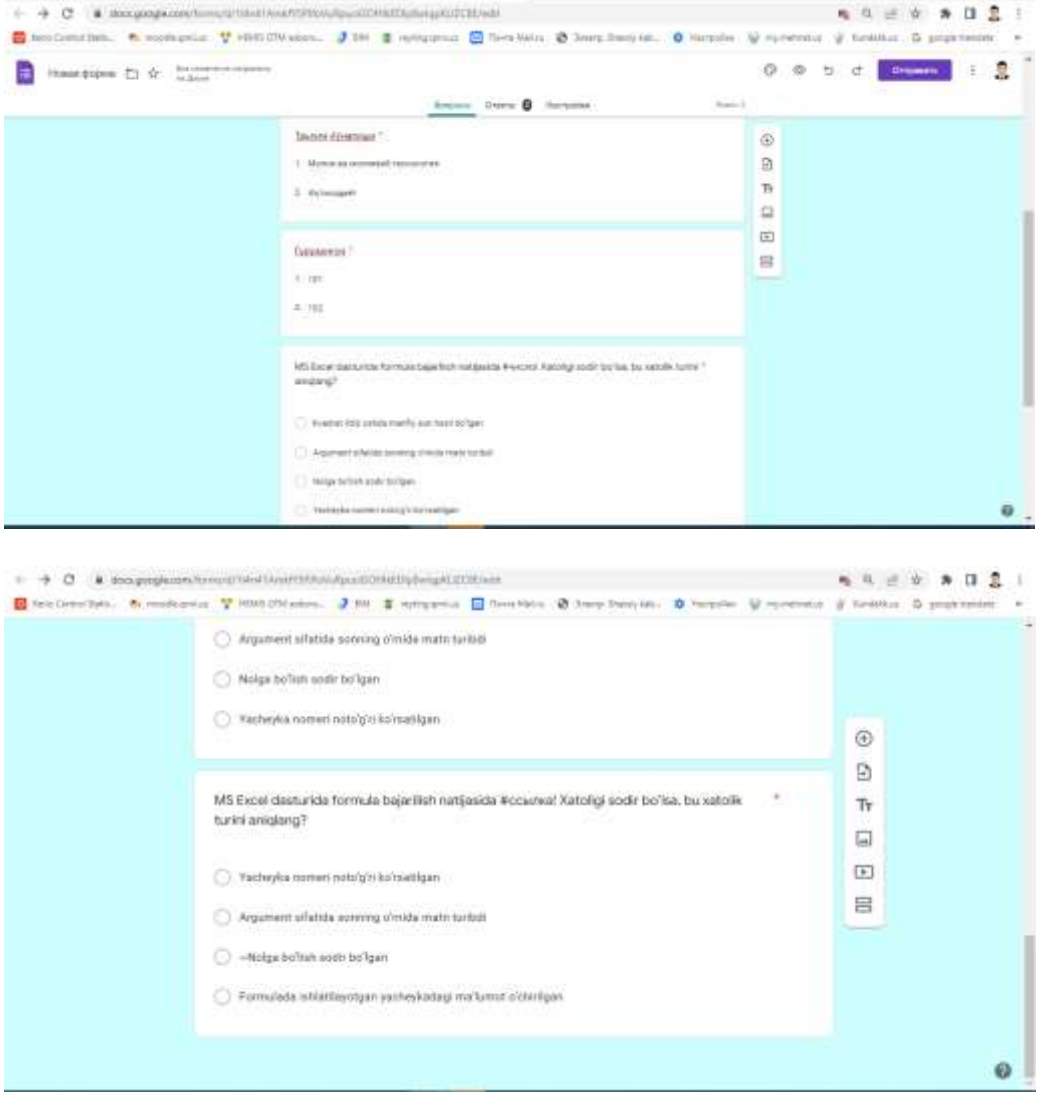


Figure 4. Google forms

Figure 5. Educational practical game in Molil application

Figure 6. Practical training and virtual laboratory training

Table 1.2.

The importance of aspects of using cloud services for teachers and students in higher education institutions

Features of cloud services and examples of it	Teacher	Student
Access to training materials located in the cloud service at any time (if there is an internet)	can	can enter with the permission of the teacher
Shared use of various information resources	can	can
Storage of regulatory and organizational information	can	not possible
Updating educational resources quickly and on time	can	not possible
Development of Information Culture and network etiquette	can	can
Formation of a professional information and educational space	can	can
Access to educational information depending on the goals and objectives of Education	can	not possible
Monitoring and monitoring the execution of assignments	Controls	not possible
Self-control	-	Controls
Collective discussion by commenting on the task	can	with the permission of the teacher
Design of an individual educational route for a student	will organize	not possible

Receiving feedback from educators, collecting statistical data	can	not possible
Holding lectures and seminars in real time, organizing them at any time	will organize	with the permission of the teacher

Table 1.3.
Cloud services and uses

№	**Purpose of use**	**Cloud services**
1	For the use of cloud services as well as the organization of an online learning space	Google Chrome, CloudTop, Joli Cloud, Zim Desk, ZeroPC
2	Use of data storage and sharing services for collective or individual use of educational materials	Yandeks Drive, Google Drive, Dropbox, OneDrive
3	The use of office editors for the organization of educational materials, the compilation and execution of assignments, the creation of independent work and laboratory assignments	Google docs, Office Online, Zoho Office
4	Services for the presentation of educational materials and the creation of a joint presentation	Google slides, SlideRocket, Slide shark
5	Graphic editors for the creation and joint use of educational material graphics	Raster grafikasi - Google, Pixer, SumoPaint. Vektorli grafikalar - Janvas, SVG-edit. 3D grafikalar - Autodesk Tinkercad, AutoCAD 360
6	Using database management systems to create and modify a database	Zoho Creator, My Task Helper, DoMyAppgFlow, Intuit Quick Base, Caspio Bridge, Amazon RDS
7	Use and creation of collaborative classes and community sites to accommodate teaching materials	Google sites, Zoho Wiki, Zoho Sites
8	The use of cloud technologies in antivirus protection to study the basic functions of cloud-based antivirus programs to ensure information security	PrevX, Immunet, Panda Cloud Antivirus
9	The use of cloud services and their functionality teach the basics of programming, as well as the organization of sharing in the development of programs	Cloud9, Ideone
10	The use of platforms for the placement and placement of Virtual educational resources and educational materials	Microsoft Azure, Google App Education Engine, Amazon Elastic Compute Cloud
11	Using reminder creation, storage and sharing services to submit reports, complete projects, and work with other teaching materials	Simplenote, Remember The Milk, Springpad, Evernote, Google Keep, OneNote Online
12	Using cloud services to organize and conduct electronic tests	Google forma

Conclusion: The purpose of studying the disciplines related to Virtual technologies is to develop the competence of future financiers and accountants in information communication technologies – to develop a complex vision of the role, role, functions and means of Information Technology in the processes of informatization of society.

Students should acquire the skills of qualified work in the context of preparing for professional activities for the provision of financial information, presentation and communication activities with documents, solving functional processing tasks, modern digital technology, including computers.

The choice of content for teaching disciplines related to information technology using cloud technologies tools is carried out in accordance with educational goals and on the basis of didactic principles, which are in accordance with the classical system of highlighted content selection - principles.

The implementation of the content of disciplines related to Virtual technologies is based on the selection of educational tasks, in accordance with ideas that rely on the understanding of the territory of close development and contextual education.

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