

Passing the Traditional Lesson with the Help of Open Moodle Platforms

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Abstract: Moodle is one of the modern open platforms that can be used for distance learning, which is a package of programs that can be used to create e-courses. This is an education management system-LMS, which ensures good cooperation between teachers and students. The article deals with the issues of improving the quality of traditional learning using the electronic platform Moodle to effective independent e-learning. The methods of using various Moodle tools to provide interactive and stimulating learning while providing a location-based education by the teacher based on the information on the topics given on the basis of the program are also indicated; how with these tools students will develop their independent cognitive skills in various higher education institutions.

Keywords: e-learning, Moodle, course development, online task, test, quiz, communication

Introduction

E-learning is an emerging field as a promising learning environment, as well as a mature arena for research, its impact on teaching and learning activities is enormous (Asadova, 2021; Di Domenico, et. 2005). The fundamental nature of e-learning as a learning tool is significantly different from face-to-face learning, which requires new opportunities for online course development, assessment, and interaction (Musayeva, et. 2020). In today's era of modern technologies, higher education with the help of new modern pedagogical technologies is a process of obtaining education in electronic form via the Internet (Raximov, et. 2020; Hannay, et. 2006). This process occurs in the form of:

- Skill analysis-material development: the developer creates questions about the structure of the material plan and exercises. The structure of the material is related to the explanatory pages.
- Material development: The developer creates material plan structure questions and exercises. The structure of the material is related to the explanatory pages.

- Learn: The user engages in an education that is appropriate for the need, that is, to study individually or jointly for seminar-type training in order to acquire knowledge.
- Assessment: The student exercises and passes the exam using questions designed according to the purpose of the study. The teacher uses the results of the exercises and exams to evaluate each student (Asadova, 2021; Budimac, et. 2011).

There are two types of free online learning platforms (Musayeva, et. 2020; Kakasevski, et. 2013). First, it is hosted on a public site, and the user registers and uses the platform, but the platform is "installed" on a server somewhere in cyberspace. The second type of platform is what the user needs to download, save, and host on their server. Free online classroom platforms that must be hosted on a server are "open source applications" - meaning that the software is available for free for limited use under the terms of the GNU General Public License (GPL), which means the user can copy, distribute it, or even get an education system. (Kravchenko, et. 2012; Baskervill, et. 2005). In addition, as the sources indicate, usually through the Moodle platform, data can be exchanged between the teacher and the student either by mutual email or via chat, where such an opportunity is available on the Moodle platform (Asadova, ,2021; Al-Ajlan,et. 2008). This is often helped by the media, such as discussing questions and assignments via email and live chat. It improves the productivity and quality of work of teachers and students with the help of an asynchronous distance learning system (Kleynosova,et.20113; Di Domenico,et. 2005). It doesn't matter that the students attending the class are online at the same time. The fact is that this e-course is an open distance learning software that is used by students for additional independent learning (Ahmed .2005; Georgouli,et. 2008). Many students today work to develop their practical skills, and the use of these programs gives them a wide range of opportunities to improve their knowledge. Asynchronous e-distance learning allows students to access the e-learning environment at any time and upload documents or send

messages to teachers or peers. Students can spend more time processing their contributions, which is usually more thoughtful than synchronous communication (Sharipova, et. 2020).

The synchronous distance learning system is a modern platform that is often supported by media such as video conferences and chat, which provides an excellent opportunity to support students in developing the quality of education in educational institutions (Bach, et. 2007). Teachers and students feel the need for e-learning more socially than synchronously, and avoid frustration by asking and answering questions in real time (Bisoux, 2007). Synchronized sessions help students feel like participants, not isolated. The code must always remain open and viewable to anyone who enters the site, it cannot become proprietary. (Buzetto-More, 2008; Di Domenico, 2005).

Today, at a time when technology is developing as a science, we have also created our own electronic courses, using modern computer technologies in our traditional lessons. We all know that there are many free platforms open today, one of which is the Moodle platform. Moodle is one of the open platforms used today by many educational institutions, including the Bukhara State Medical Institute, especially during the COVID-19 pandemic. Therefore, the purpose of this study was to determine the increase in the effectiveness and quality of classes when using new modern technologies-the Moodle platform in all educational areas.

Materials and methods of research

For teaching all subjects at the Bukhara State Medical Institute during the current period of the COVID-19 pandemic, the open educational platform Moodle is used from modern teaching methods.

To this end, courses were created in all subjects, in particular in the subject "Information technology in medicine" in order to provide additional information to students for self-study. The courses were created for all first and second year students in the following areas:

- ✓ for students of the national group, who are taught in Russian and Uzbek languages;
- ✓ for students studying in joint educational programs organized in partnership with foreign universities, which classes are held in Russian and English;
- ✓ для студентов, обучающихся на основе программы MBBS, которым преподаётся только на английском языке.

Results and discussion

We have created an electronic course on the subject "Information Technologies in Medicine in order to improve the efficiency and quality of classes. This course contains all the information, such as lecture texts, practical tasks, concepts of how to perform practical and laboratory tasks, and therefore, in order to assess the knowledge of students, control questions for practical classes, control questions for laboratory tasks and laboratory classes are given.

Buxoro davlat tibbiyot instituti Masofadan o'qitish tizimi

Courses

▼ Boshlash [Начало]

▶ O'zbekcha

▶ Русский

▶ English

▼ Collapse all

Search courses 

Figure 1. Address of the Moodle platform of the Bukhara State Medical Institute

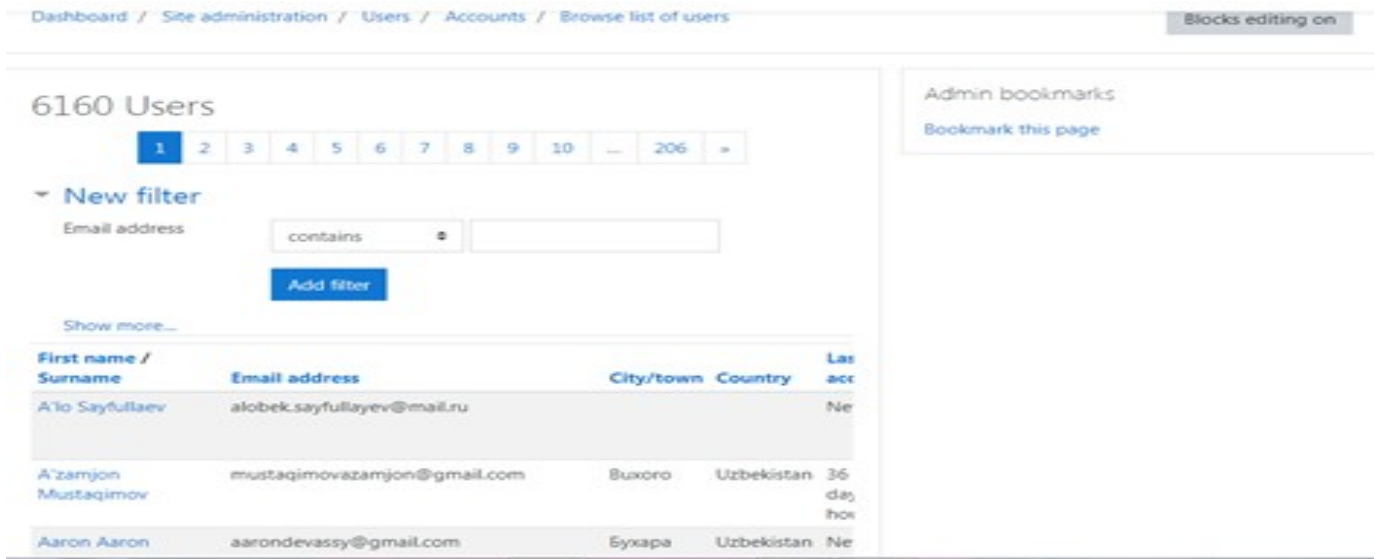


Figure 2. Moodle platform of the Bukhara State Medical Institute

There are also test questions and a glossary. Consequently, students evaluate their knowledge gained as a result of performing test tasks on independent learning, draw conclusions and work harder on themselves again.

The address of the Moodle platform of the Bukhara State Medical Institute will be entered via moodle.bsmi.uz (Fig.1, 2). The Moodle platform also contains information on the subjects taught in all courses of the Bukhara State Medical Institute (Fig. 3).



Figure 3. Information on subjects on the Moodle platform taught in all courses of the Bukhara Medical State Institute

As an example, we will consider an electronic course on the subject “Information technologies in medicine” (Fig. 4, 5).

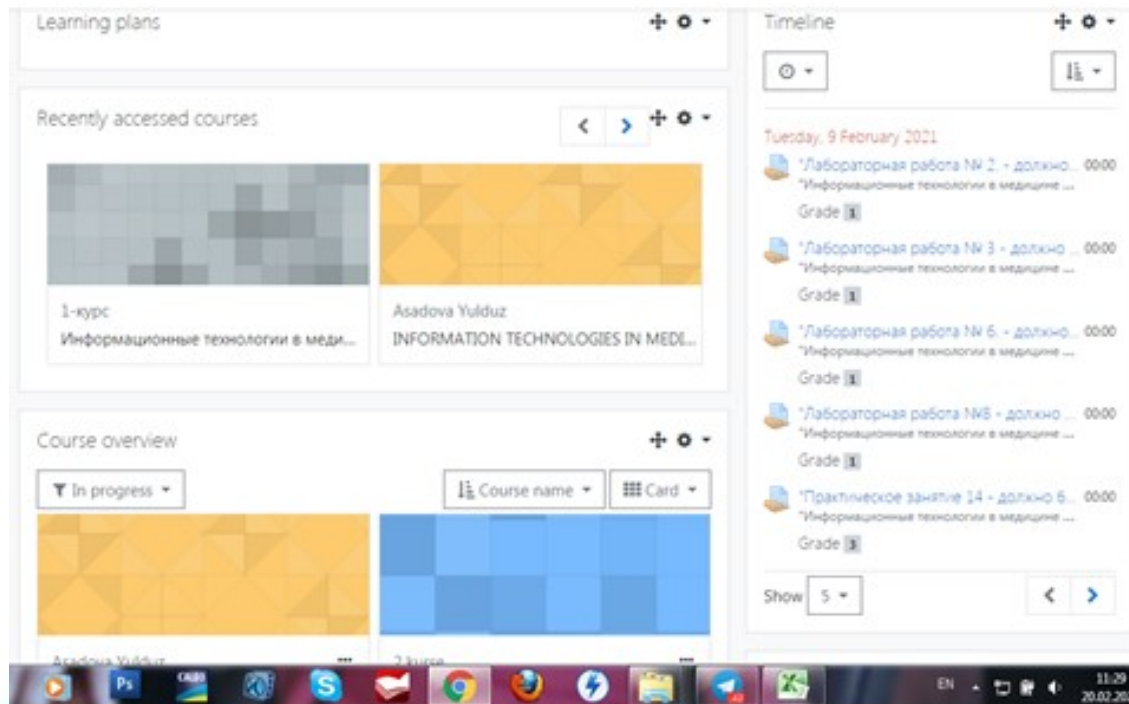


Figure 4. Appearance of the electronic course on the subject “Information technologies in medicine”

As you can see from the figures, the teacher can post all the necessary information on the subject and update it, and students can use this information independently (Fig. 6, 7). If they have questions, they can ask the teacher via chat or email. This allows students and teachers to spend more time on practical tasks.

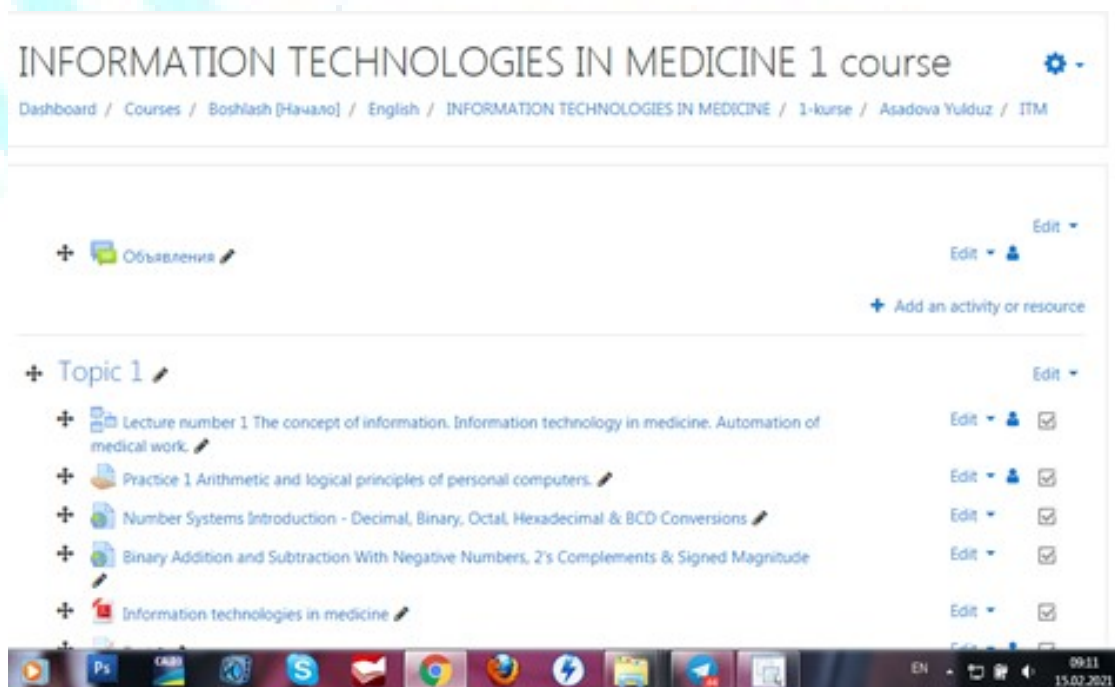


Figure 5. Placement of the electronic course “Information technologies in medicine”

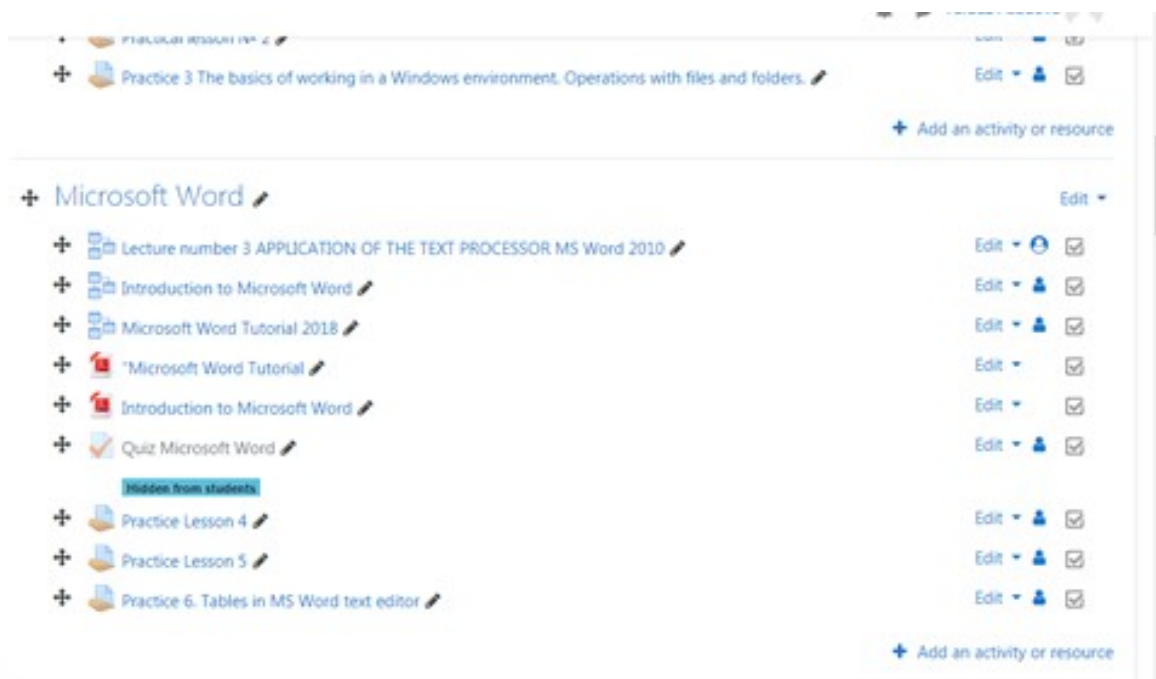


Figure 6. Electronic course “Information technologies in medicine”

The e-course also contains video images, as well as video course addresses, with which students from the Internet can use the necessary video courses, which of course gives students the opportunity to better understand the topic (Fig. 8).

In addition, you can evaluate students' knowledge using test questions to determine how well the course is mastered (Figure 9).

After passing the test, students can immediately see the grades they received, and the teacher can also see the same results (Fig. 10). The teacher can also analyze the results of the tests received by the students and save them as a PDF or print a file (Fig. 11).

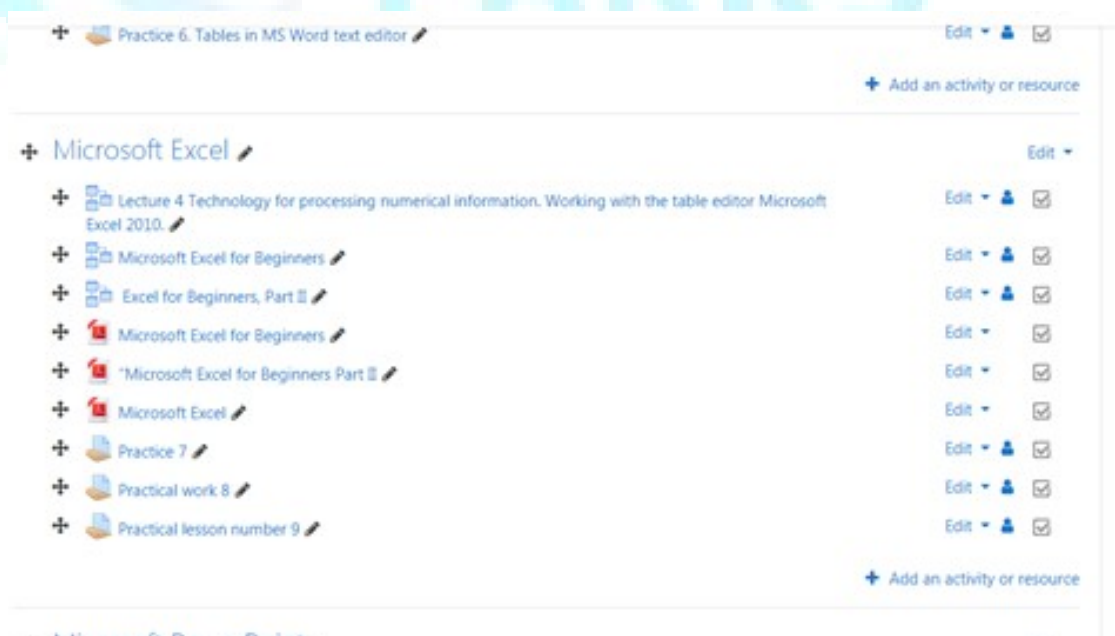


Figure 7. Content of the electronic course “Information technologies in medicine”

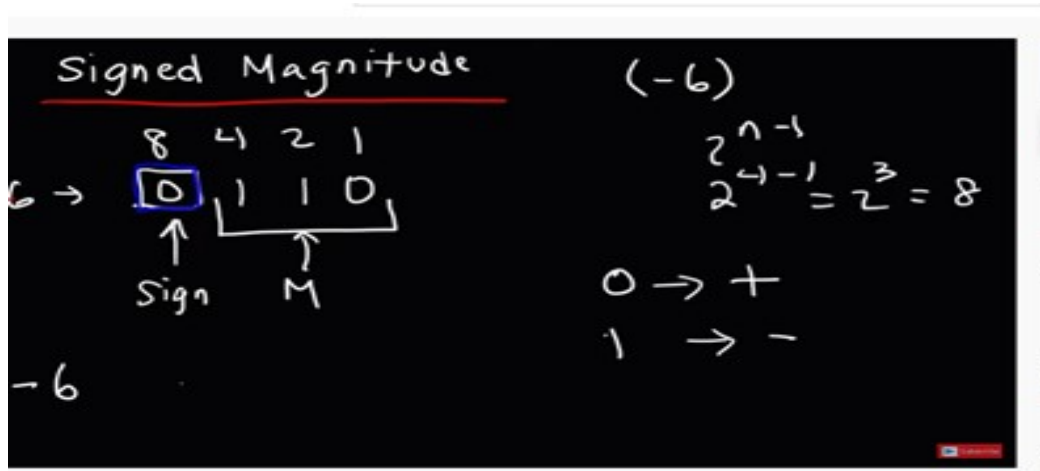


Figure 8. Video images of the electronic course “Information technologies in medicine”

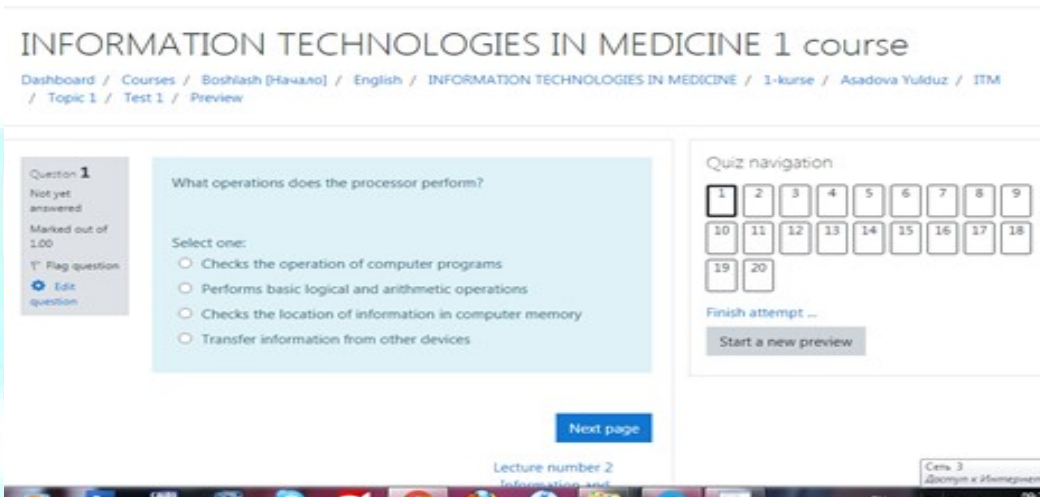


Figure 9. Test tasks of the electronic course “Information technologies in medicine”

username

Download table data as

	First name / Surname	Email address	State	Started on	Completed	Time taken	Grade/100.00
<input type="checkbox"/>	Bahrom Xasanov	bhasanov520@gmail.com	Finished	16 January 2021 9:52 AM	16 January 2021 10:32 AM	39 mins 57 secs	100.00
<input type="checkbox"/>	Aziza Murtazaeva	nafis_1909@mail.ru	Finished	16 January 2021 9:53 AM	16 January 2021 10:24 AM	30 mins 45 secs	100.00
<input type="checkbox"/>	Humoyun G'aniyev	humoyunganiyev0071@gmail.com	Finished	16 January 2021 9:53 AM	16 January 2021 10:30 AM	36 mins 34 secs	100.00
<input type="checkbox"/>	Nigina Shamsiddinova	Niginashamsiddinova@gmail.com	Finished	16 January 2021 9:53 AM	16 January 2021 10:26 AM	32 mins 50 secs	98.33

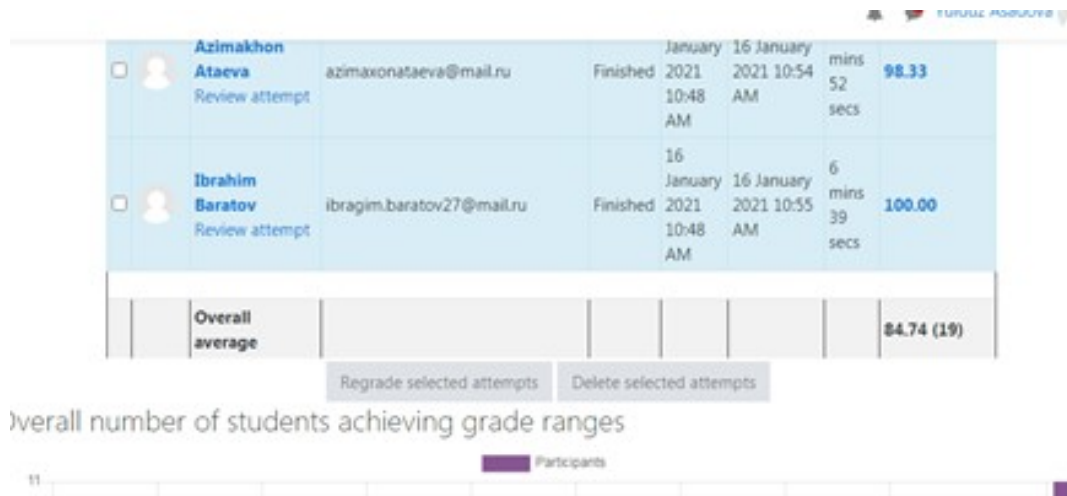


Figure 10. Results of test tasks of the electronic course “Information technologies in medicine”

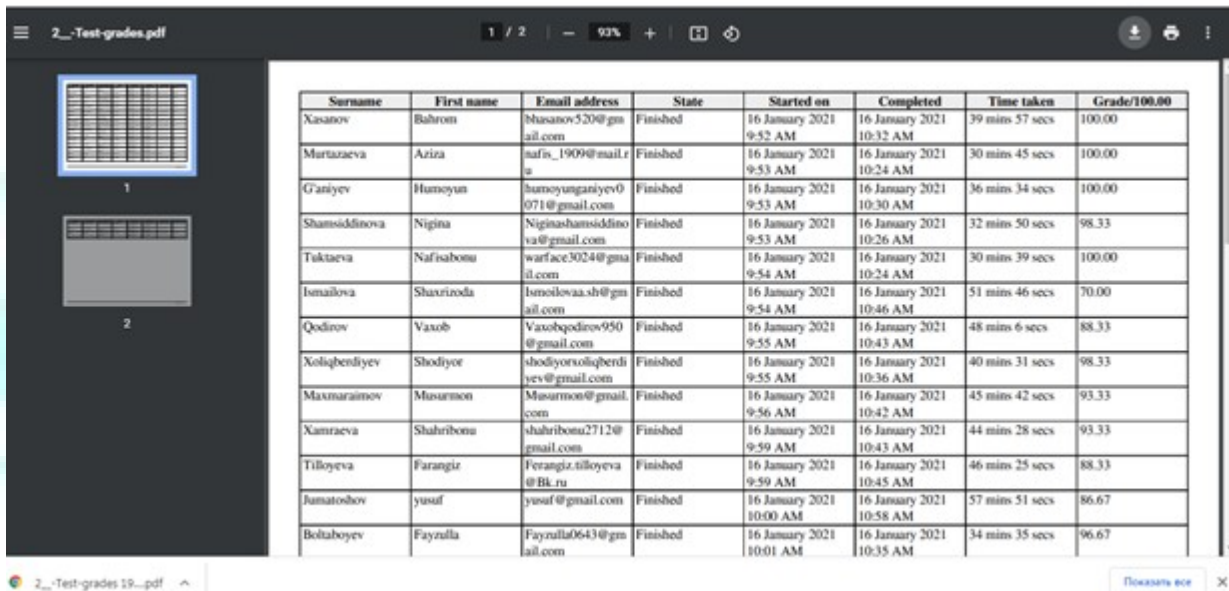


Figure 11. List of test tasks of the electronic course “Information technologies in medicine”

CONCLUSIONS

Thus, you can achieve good results in the education process using the Moodle platform. In general, in modern teaching activities, such an innovative approach will not only serve to improve the quality of teaching, but also save time and provide up-to-date, up-to-date information to improve students ' knowledge and use modern technological programs.

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