

**ADVANTAGES AND PRACTICAL SIGNIFICANCE OF DISTANCE
LEARNING PROGRAMS IN THE HIGHER EDUCATION SYSTEM
(EXAMPLE MOODLE, SCORM, TUTOR PROGRAMS)
(EXAMPLE MOODLE, SCORM)**

Associate Professor of Bukhara State University, Ph.D.

Zaripova Gulbahor Komilovna

Email: dersuzala1972@gmail.com, g.k.zaripova@buxdu.uz,

phone: (99897) 280-72-01

teacher of Bukhara State University

Norova Fazilat Faizulloevna

Email: f.f.norova@buxdu.uz,

phone: (998 93) 623-60-22.

Abstract. The article discusses the importance, opportunities and practical advantages of distance learning programs in the education system. The goal of the programs is to provide a large part of the learning material to the student and to assess the mainpart of the interaction with the teacher through modern information technologies. In addition, information is provided on the shortcomings of the program and suggestions for its future potential.

Keywords: program, distance learning, student, program, teacher, pedagogical education, computer technology.

INTRODUCTION. Distance education (DE) is the provision of a significant part of the educational material to the student, and the main part of the interaction with the teacher is modern information technologies: the Internet, computer telecommunications, national and cable television, multimedia, education systems. A distinctive feature of distance education is providing students with the opportunity to independently acquire the necessary knowledge using developed information resources provided by modern information technologies. Information resources: databases and knowledge, computer, including multimedia, educational and monitoring systems, video and audio recordings, electronic libraries in combination with traditional textbooks and teaching aids are unique and open to a wide audience. Conversations and forums, video and teleconferences, the possibility of frequent, daily consultations with teachers via computer communications make the interaction of students with teachers more intense than in the traditional form of education. Distance education is a special, perfect form that combines elements of full-time, part-time and distance learning based on new information technologies and multimedia systems. Modern means of telecommunications and electronic publications make it possible to eliminate

their shortcomings, while maintaining all the advantages of traditional forms of education. They include the following: printed publications; electronic publications on external storage media (floppy, magnetic, laser or hard disks, etc.); computer training systems in traditional and multimedia versions; audio educational and information materials; video educational and information materials; laboratory distance seminars; educational programs; knowledge of databases and remote access; electronic libraries with remote access; didactic materials based on expert teaching systems; computer network; TV show.

Below we will talk about such distance education programs. Including SCORM – distance education standard. A set of specifications and standards developed for distance education systems. It includes educational material and requirements for the organization of the entire distance education system. SCORM allows for the compatibility of components and the possibility of their reuse: educational material is presented in separate small blocks that can be included in different training courses and used by the distance education system, regardless of who it is. SCORM (Shared Content Object Reference Model) is a set of specifications and standards developed for distance learning systems. It includes educational material and requirements for the organization of the entire distance education system. SCORM allows for the compatibility of components and the possibility of their reuse: educational material can be included in different training courses and used by the distance education system, regardless of who, where and what, presented in separate small blocks, where possible. SCORM is based on the XML standard. ILIAS (Integriertes Lern-, Informations – und Arbeitskooperations – System [German for “Integrated System for Learning, Information and Work Collaboration”]) is an open source, web-based learning management system (LMS). It supports learning content management (including SCORM 2004 compliance), as well as collaboration, communication, assessment and evaluation tools. The program is published under the GNU General Public License and can be used on any server that supports PHP and MySQL.

Next up is RemoteApp, a program that provides remote desktop access limited to a single application. However, notwithstanding the above, a user can run multiple applications or multiple copies of the same application in the same session. Another program is BigBlueButton, an open source web conferencing program. The system is mainly intended for distance education. The name BigBlueButton comes from the original concept that starting a web conference should be as easy as pressing the metaphorical big blue button.

Supports multiple audio tracks and video sharing, presentations, the ability to display Microsoft Office and LibreOffice documents, images, PDF documents.

Supports advanced whiteboard features such as pointing, zooming, and drawing, as well as desktop access. Public and private chats are available for feedback from the

web conference audience. The user can enter the conference as a viewer or moderator. As a viewer, the user can join a voice conference, use a webcam, raise their hand (ask to speak), and chat with other people. As a moderator, the user has the ability to mute/unmute the microphone of any viewer, remove any viewer from the Web conference, and also give the floor to any viewer (make any user a speaker). The presenter can upload presentations, documents, and use the board.

Finally, Zoom is a proprietary video conferencing software developed by Video Communications. It offers a video calling service that allows you to connect up to 100 devices simultaneously for free, with a 40-minute limit for free accounts. Users have the opportunity to increase the level of service without time restrictions, using one of the tariff plans with a maximum number of simultaneous connections of up to 500 people.

DISCUSSION AND RESULTS. Indeed, at the new stage of development of the education system of our country, the MOODLE distance education program is of great importance and has many practical advantages.

By the way, Moodle is free software with a GPL license, which allows you to use the system for free, as well as easily modify it to suit the needs of the educational institution and integrate it with other products. This is the most important program for teachers and students. Moodle (Modular Object-Oriented Dynamic Learning Environment) is a web-based system for organizing and managing distance learning, launched in 2001. It is freely available: you can download it from the official website and install it on your computer. The system supports more than 120 languages, including Russian. The Moodle installation package consists of three elements:

- Internet – Moodle code uploaded to the server.
- Database managed by MySQL, PostgreSQL, Microsoft SQL Server, MariaDB or Oracle.
- Storage for downloaded and created files.

All three parts can run on a single server or on multiple servers for load balancing. You can get acquainted with the capabilities of Moodle using the cloud demo version of the system. Here you just need to register and select a role (teacher, student, administrator). After a while, you will have a control panel with basic functions: create and conduct courses, view progress and activity, communicate with other users. How the system of interaction between teachers and students Moodle solves the following problems:

- creation and management of a distance course;
- managing users within the course;
- differentiated access for participants of the educational portal;
- monitoring the implementation of educational elements - both by the teacher and students;
- publication of educational materials in various formats: graphics, texts, audio, video. Moodle has a flexible content scheme. You can upload simple layouts such as

files and folders, or more complex layouts: Wiki topics, glossaries (can be completed by students), assignments, various forms of tests.

The biggest benefit that potential users will immediately notice is that Moodle is free to use. The system operates according to the open source scheme. Therefore, a large team of developers regularly creates useful extensions and modules in the Moodle environment – at the moment there are about 1500 of them. For example:

- video conferencing modules;
- audio and video conversations;
- Plugin for adding questions, comments and annotations to educational materials in a PDF document;
- motivational modules;
- reports on interactive educational programs;
- mass mailing of messages;
- electronic portfolio.

Thanks to the free version and flexible settings, Moodle is actively used in universities and colleges, as well as by teachers to create personal courses and distance learning courses.

WHAT CAN YOU DO WITH Moodle?

As an administrator in Moodle, you can perform the following functions:

- course creation and management;
- add students;
- evaluation of educational activities;
- monitor student progress;
- limit access to educational materials and lesson blocks. Let's take a closer look at the main features of Moodle.
- creation and management of courses.

A Moodle curriculum created using the built-in editor can consist of several elements. For example, the simplest and most common are lectures, assignments and tests. Educational content is loaded into the system and lectures are created based on it. These can be text files in PDF, XLS format, as well as videos, photographs, presentations and audio.

Courses are created in the system in editing mode. Depending on the tasks, they are filled with different elements, each of which has its own settings. In addition to lectures, these can be webinars, seminars, and trainings. For example, during a seminar you can organize tests or assign assignments to students. Disadvantages of Moodle:

Despite all its versatility, Moodle has a number of significant disadvantages. It is necessary to create a system for organizing training and creating complete courses. This requires a server or hosting, a domain name, etc. If you do not have the necessary knowledge and experience, you will have to hire an IT specialist. As a result, setting up the service becomes an expensive task.

Moodle requires a server. Free hosting allows you to install only older versions of the system. In addition, the service consumes a lot of resources, which increases financial costs. Despite frequent updates, Moodle has a rather outdated interface that is not user friendly. If you want to make course management more convenient, you will need to configure the entire system separately.

Moodle is a large system with many features, some of which are simply not used. And they can only be removed with the help of developers. And that is not all. Unless you have minimal experience managing an LMS, Moodle requires a long and extensive learning curve. You won't be able to quickly determine the number of sections, attachments, and forms here. "Let's run it and figure it out later" doesn't work. The system is more focused on universities, colleges and other educational institutions. Most plugins are created specifically for education. Moodle for the commercial sector lacks flexibility and extensibility. Integrating the system with the solutions needed by the business requires a lot of effort and requires the participation of experienced specialists.

Analytical tools exist, but they do not provide much depth or coverage of business problems. Moodle does not issue course completion certificates. Works on the Moodle platform and through the official mobile application. With this:

- course content can be viewed even offline
- receive notifications about course events (news, passed tests, etc.);
- quick contact with course participants;
- download content;
- Track your progress, view lesson plans and assessments. The built-in analysis system creates reports that show the level of activity of platform users: how many people viewed the courses, who left comments.

Survey and testing. Surveys and questionnaires can be used to conduct assessments, collect feedback on training, or find out the majority opinion on a particular decision in the system. Both elements are built into the system - questionnaires are collected with ready-made questions, and questionnaires are compiled by the administrator.

CONCLUSION. The central link of the distance learning system (DLS) is telecommunications and their transport base. They provide educational processes with the necessary educational and methodological materials, use the exchange of ideas between teachers and students, the exchange of management information within the educational system, access to international information networks, as well as the connection of foreign users to the LMS. Video is a unique distance learning environment for almost any subject. Duplication does not require large expenses; VCRs are widely used in all countries. Videos are often used as components of training packages to replace traditional lectures. Email is a more cost-effective and technologically efficient technology that can be used to deliver courses and provide

feedback from learners to instructors. As long as students have constant access to a personal computer with a modem and telephone line, e-mail allows for a flexible and intensive advising process. Video conferencing using computer networks makes it possible to organize video communication at minimal cost. This type of video conference can be used for conducting seminars and individual consultations in communication groups. In addition to transmitting audio and video, computer conferencing makes it possible to jointly manage images on a computer: remotely create drawings and drawings, transfer photos and handwritten documents. Advantages of distance education: despite the large distance between tutors (teachers) and students, communication between them is carried out in an interactive, understandable and interesting form; learning becomes mobile. The learning process will be interesting to the laziest students; the attractive power of the computer makes them forget about the complexity of questions; they try to actively and quickly cope with tasks in order to receive new ones as soon as possible; this is an opportunity to be.

REFERENCES:

1. Andreev A. A. Masofaviy ta'limga kirish. - M., 1997. Masofaviy ta'lim: Darslik // E. S. Po'lat tahriri - M.: Inson nashriyot markazi, "Vladost", 1998.
2. Koraev F., Dilmurodov N. Masofaviy kurslarni hagida // Nasaf ziyosi, 2005. No. 1.
3. Zaichenko T.P. Fundamentals of distance learning: Theoretical and practical basis: Textbook. - St. Petersburg: Publishing house of the Russian State Pedagogical University named after. A.I. Gersena, 2004. - 167 p.
4. Zaichenko T.P. Invariant organizational-didactic system of distance learning: Monograph. - St. Petersburg: Publishing house "Asterion", 2004. - 188.
5. Zaripova G.K. Spiritual and pedagogical role of self-education in the formation of general secondary schools students as perfect persons: Journal of new century innovations. Vol. 49 No. 1 (2024), Volume-49. Issue-1, 133-142. <https://www.newjournal.org>; <http://www.newjournal.org/index.php/new/issue/view/337>; https://scholar.google.com/scholar_url?url=http://www.newjournal.org/index.php/new/article/view/12315&hl=ru&sa=X&d=13700377225825864947&ei=mab_Zeb2LY-Sy9YP6ICD0Ak&scisig=AFWwaeY81IU2g4d6b61RJnJlCsQd&oi=scholar&hist=1xFax7AAAAAJ:4401037987834098197:AFWwaeBLEXpCnrB4TedFUl0syXlB&html=&pos=0&folt=cit&fols=
6. Zaripova G.K. Dars jarayonida va undan tashqari tadbirlarda o'quvchi shaxsini shakllanishida hamda uning kasb egallashida o'rta umumiy ta'lim maktabidagi tarbiyaning yetakchi ahamiyati: Vol. 42 No. 1 (2024): ОБРАЗОВАНИЕ НАУКА И ИННОВАЦИОННЫЕ ИДЕИ В МИРЕ | Выпуск журнала № 42 | Часть-1. 76-92. https://scholar.google.com/scholar_url?url=http://newjournal.org/index.php/01/article/view/12326&hl=ru&sa=X&d=13592918638829847184&ei=mab_Zeb2LY-Sy9YP6ICD0Ak&scisig=AFWwaeB2ncyTQaARMr4goepKrrff&oi=scholar&hist=1xFax7AAAAAJ:4401037987834098197:AFWwaeBLEXpCnrB4TedFUl0syXlB&html=&pos=2&folt=cit&fols=
7. Zaripova G.K. Madaniyatshunoslik yondashuvi asosida o'qituvchilar umumiy o'rta ta'lim maktabi o'quvchilarini ma'naviy-ma'rifiy tarbiyalash tizimida o'z-o'zini tarbiyalashni shakllantirishining ahamiyati: Vol. 42 No. 1 (2024): ОБРАЗОВАНИЕ НАУКА И ИННОВАЦИОННЫЕ ИДЕИ В МИРЕ | Выпуск журнала № 42 | Часть-1. 50-57. https://scholar.google.com/scholar_url?url=http://newjournal.org/index.php/01/article/view/12324&hl=ru&sa=X&d=11741118385377896405&ei=mab_Zeb2LY-Sy9YP6ICD0Ak&scisig=AFWwaeYAgP8PeiLgFmNT9BSWSZy3&oi=scholar&hist=1xFax7AAAAAJ:4401037987834098197:AFWwaeBLEXpCnrB4TedFUl0syXlB&html=&pos=3&folt=cit&fols=

8. Зарипова Г.К. Духовно-педагогическая роль самообразования в формировании учащихся общих средних школ как совершенных человек: Vol. 42 No. 1 (2024): ОБРАЗОВАНИЕ НАУКА И ИННОВАЦИОННЫЕ ИДЕИ В МИРЕ | Выпуск журнала № 42 | Часть-1. 58-75.
https://scholar.google.com/scholar_url?url=http://www.newjournal.org/index.php/01/article/view/12325&hl=ru&sa=X&d=9735756815312938566&ei=mab_Zeb2LY-Sy9YP6ICD0Ak&scisig=AFWwaeY6jJDOR6zShfDr7G-lp5BC&oi=scholaralrt&hist=1xFax7AAAAAJ:4401037987834098197:AFWwaebLEXpCnRb4TedFUI0syXIb&html=&pos=4&folt=cit&fols=

9. Zaripova G.K. The leading importance of education in a secondary school in the formation of the student's personality during the lesson process and in events outside him and in his profession: Journal of new century innovations. Vol. 49 No. 1 (2024), Volume-49. Issue-1, 148-163.
https://scholar.google.com/scholar_url?url=http://newjournal.org/index.php/new/article/download/12317/11940&hl=ru&sa=X&d=11771490114323368116&ei=mab_Zeb2LY-Sy9YP6ICD0Ak&scisig=AFWwaeaQXWfIvncGSnZsvFNQYc8&oi=scholaralrt&hist=1xFax7AAAAAJ:4401037987834098197:AFWwaebLEXpCnRb4TedFUI0syXIb&html=&pos=1&folt=cit&fols=

10. Zaripova G.K. Umumiy o'rta ta'lim maktablarida o'quvchi shaxsini shakllanishida pedagogik yondashish va uning kasb egallashida yetakchi ahamiyati: - Buxoro: "PEDAGOGIK MAHORAT" ilmiy-nazariy va metodik jurnal. 2023, № 9. 98-106- betlar. https://buxdu.uz/media/jumallar/pedagogik_mahorat_9_2023.pdf.
https://scholar.google.com/citations?view_op=view_citation&hl=ru&user=1xFax7AAAAAJ&pagesize=80&sortby=pubdate&citation_for_view=1xFax7AAAAAJ:_axFR9aDTf0C

11. Shafiyev T.R. Development of a mathematical model and an efficient computational algorithm for predicting atmospheric pollution in industrial regions. AIP Conference Proceedings, 2024.

https://scholar.google.com/citations?view_op=view_citation&hl=ru&user=t6yS4uUAAAAJ&sortby=pubdate&citation_for_view=t6yS4uUAAAAJ:qxL8FJ1GzNcC

12. Shafiyev T.R. Masofaviy va elektron ta'limning modellari va nazariyasi: masofaviy va elektron ta'limning modellari va nazariyasi. (Buxdu. uz): Том 1 № 1, 42 tom (2020): Maqola va tezislari toplami. 2023.

https://scholar.google.com/citations?view_op=view_citation&hl=ru&user=t6yS4uUAAAAJ&sortby=pubdate&citation_for_view=t6yS4uUAAAAJ:M3ejUd6NzC8C

13. Shadmanov, T. Shafiyev. Mathematical modeling of the processes of combined heat and moisture transfer during storage and drying of raw cotton. E3S Web of Conferences, 2023.

https://scholar.google.com/citations?view_op=view_citation&hl=ru&user=t6yS4uUAAAAJ&sortby=pubdate&citation_for_view=t6yS4uUAAAAJ:Wp0gIr-vW9MC

14. T. Shafiev, S. Nazarov. Studies of the influence of vegetation cover on the process of transfer and diffusion of harmful substances in the atmosphere. E3S Web of Conferences, 2023.

https://scholar.google.com/citations?view_op=view_citation&hl=ru&user=t6yS4uUAAAAJ&sortby=pubdate&citation_for_view=t6yS4uUAAAAJ:4T0pqqG69KYC

15. Shafiyev T.R. Technology And Relevance Of Creating An Electronic Training Course. ЦЕНТР НАУЧНЫХ ПУБЛИКАЦИЙ (buxdu. uz), 2021.

https://scholar.google.com/citations?view_op=view_citation&hl=ru&user=t6yS4uUAAAAJ&sortby=pubdate&citation_for_view=t6yS4uUAAAAJ:KIAtU1dfN6UC

16. Shafiyev T.R. Нелинейная математическая модель процесса переноса и диффузии вредных веществ в атмосфере с учетом переменной скорости частиц и орографии местности. ЦЕНТР НАУЧНЫХ ПУБЛИКАЦИЙ (buxdu. uz), 2020.

https://scholar.google.com/citations?view_op=view_citation&hl=ru&user=t6yS4uUAAAAJ&sortby=pubdate&citation_for_view=t6yS4uUAAAAJ:5nxA0vEk-isC

17. Eshankulov H.I. Multi-agent tizimarining business intelligence integratsiyasi uchun petri to'ri asosidagi modeli. DIGITAL TRANSFORMATION AND ARTIFICIAL . 90-99-bet. 2-tom. 2024.

https://scholar.google.ru/citations?view_op=view_citation&hl=ru&user=vgUt64gAAAAJ&sortby=pubdate&citation_for_view=vgUt64gAAAAJ:BqipwSGYUEgC

18. Eshankulov H.I. Business intelligence dasturlarini bulutga ko'chirish va bulutli hisoblashning asosiy vazifalari. DIGITAL TRANSFORMATION AND ARTIFICIAL INTELLIGENCE 1 (4), 1-7. 2023.
https://scholar.google.ru/citations?view_op=view_citation&hl=ru&user=vgUt64gAAAAAJ&sortby=pubdate&citation_for_view=vgUt64gAAAAAJ:YFjsv_pBGBYC

19. Eshankulov H.I., Zaripova G.K. va boshqalar. Mathematical model for information monitoring system of fat and oil enterprises. AIP Conference Proceedings 3004 (1). 2024.
https://scholar.google.ru/citations?view_op=view_citation&hl=ru&user=vgUt64gAAAAAJ&sortby=pubdate&citation_for_view=vgUt64gAAAAAJ:JV2RwH3_ST0C <https://doi.org/10.1063/5.0199923>.
https://scholar.google.com/citations?view_op=view_citation&hl=ru&user=1xFax7AAAAAJ&sortby=pubdate&citation_for_view=1xFax7AAAAAJ:kh2fBNsKQNwC

20. Eshankulov H.I. Katta ma'lumotlar (Big Data) ni tahlil qilish usullari. ЦЕНТР НАУЧНЫХ ПУБЛИКАЦИЙ (buxdu.uz), 2021.
https://scholar.google.ru/citations?view_op=view_citation&hl=ru&user=vgUt64gAAAAAJ&sortby=pubdate&citation_for_view=vgUt64gAAAAAJ:isC4tDSrTZIC

21. Eshankulov H.I. Ontologik yondashuv orqali integratsiyalash usullarining tahlili. ЦЕНТР НАУЧНЫХ ПУБЛИКАЦИЙ (buxdu.uz), 2021. 8 tom.
https://scholar.google.ru/citations?view_op=view_citation&hl=ru&user=vgUt64gAAAAAJ&sortby=pubdate&citation_for_view=vgUt64gAAAAAJ:bEWYMUwI8FkC

22. Eshankulov H.I. IDEF strukturaviy modellashtirish standartlari oilasi. Центр научных публикаций (buxdu.uz), 2021.
https://scholar.google.com/citations?view_op=view_citation&hl=ru&user=vgUt64gAAAAAJ&sortby=pubdate&citation_for_view=vgUt64gAAAAAJ:r0BpntZqJG4C

23. Eshankulov H.I. Business intelligence dasturiy ta'minotlarning xususiyatlari va tuzilmasi. Digital transformation and artificial intelligence. 2023/10/23.3-son, 51-60.
https://scholar.google.com/citations?view_op=view_citation&hl=ru&user=vgUt64gAAAAAJ&sortby=pubdate&citation_for_view=vgUt64gAAAAAJ:NMxIIDl6LWMC

24. Eshankulov H.I. Taqsimlangan Axborot Tizimlarning Arxitekturasi. Центр научных публикаций (buxdu.uz), 2021.
https://scholar.google.com/citations?view_op=view_citation&hl=ru&user=vgUt64gAAAAAJ&sortby=pubdate&citation_for_view=vgUt64gAAAAAJ:_Qo2XoVZTnwC

25. Zaripova G.K. Informatika va axborot texnologiyalari fanini o'qitishda yangi pedagogik texnologiyalardan ta'lim tizimida foydalanish: "Fizika, matematika va informatika". – Toshkent. - 2014 y. – №3. – B.6-9.
https://scholar.google.com/citations?view_op=view_citation&hl=ru&user=1xFax7AAAAAJ&pagesize=80&sortby=pubdate&citation_for_view=1xFax7AAAAAJ:e_rmSamDkqQC

26. Зарипова Г.К. INTERNETдан фойдаланиш этикаси: "Халқ таълими". – Тошкент: 2006 й. – №1. – Б. 75-77.
https://scholar.google.com/citations?view_op=view_citation&hl=ru&user=1xFax7AAAAAJ&pagesize=80&sortby=pubdate&citation_for_view=1xFax7AAAAAJ:BwyfMAYsbu0C

27. Zaripova G.K. Informatika va axborot texnologiyalarining jamiyat taraqqiyotida o'rni va istiqbollari: "Fizika, matematika va informatika". – Toshkent. - 2012 y. – №4. – B.6-9.
https://scholar.google.com/citations?view_op=view_citation&hl=ru&user=1xFax7AAAAAJ&pagesize=80&sortby=pubdate&citation_for_view=1xFax7AAAAAJ:kz9GbA2Ns4gC

28. Зарипова Г.К. Ведущее значение образования в средней общеобразовательной школе в формировании личности учащегося в процессе урока и в событиях вне него и в его профессии: Journal of new century innovations. Vol. 49 No. 1 (2024), Volume-49. Issue-1, 161-184.

https://scholar.google.com/scholar_url?url=http://newjournal.org/index.php/new/article/download/12317/1940&hl=ru&sa=X&id=11771490114323368116&ei=mab_Zeb2LY-Sy9YP6ICD0Ak&scisig=AFWwaeaQXWfIvnwCGSnZsvFNQYc8&oi=scholaralrt&hist=1xFax7AAAAAJ:401037987834098197:AFWwaebLEXpCnrB4TedFU10syXlb&html=&pos=1&folt=cit&fols=

29. Зарипова Г.К. “Информатика ва ҳисоблаш техникаси асослари” фанини узлуксиз ўқитиш муаммолари: “Узлуксиз таълим”. – Тошкент: 2005 й. – № 6. – Б. 68-70.
https://scholar.google.com/vn/citations?view_op=view_citation&hl=ru&user=1xFax7AAAAAJ&pagesize=80&sortby=pubdate&citation_for_view=1xFax7AAAAAJ:AvfA0Oy_GE0C
30. Zaripova G.K. Agarki bu insonni avliyo desak. . . : “Boshlang’ich ta’lim”. – Toshkent: 2006 y. – №1. – Б. 6-7.
https://scholar.google.com/vn/citations?view_op=view_citation&hl=ru&user=1xFax7AAAAAJ&pagesize=80&sortby=pubdate&citation_for_view=1xFax7AAAAAJ:vbGhcppDI1QC
31. Zaripova G.K. Future specialists – spiritual and professional education of secondary school students – a need for the development of our independent country: Educational Research in Universal Sciences, 2(9), 97–105. Retrieved from <http://erus.uz/index.php/er/article/view/3872>.
http://scholar.google.com/citations?view_op=view_citation&hl=ru&user=1xFax7AAAAAJ&pagesize=80&sortby=pubdate&citation_for_view=1xFax7AAAAAJ:VLnqNzywnoUC
32. Зарипова Г.К. Педагогический подход в формировании личности учащегося в общей средней школе и его значение лидера в получении профессии: VOLUME 2, SPECIAL ISSUE 10 SEPTEMBER 2023. ISSN: 2181-3515. 8-22-стр. https://t.me/Erus_uz Educational Research in Universal Sciences, 2(10), 8–22. Retrieved from <http://erus.uz/index.php/er/article/view/3794>.
https://scholar.google.com/citations?view_op=view_citation&hl=ru&user=1xFax7AAAAAJ&sortby=pubdate&citation_for_view=1xFax7AAAAAJ:j8SEvjWINXcC
33. Zaripova G.K. Building the professional competence of globally competitive teachers in digital and information and communication technologies: Journal of Survey in Fisheries Sciences. 10(3S) 2254-2264. 2023. 2254-2264- pages. <https://sifisheriessciences.com/journal/index.php/journal/article/view/844/837>.
https://scholar.google.com/citations?view_op=view_citation&hl=ru&user=1xFax7AAAAAJ&sortby=pubdate&citation_for_view=1xFax7AAAAAJ:-_dYPAW6P2MC
34. Zaripova G.K. Development of professional competence of specialists in the training of teachers in digital and information technologies in our society:- Buxoro: Pedagogik Mahorat. 2022. (maxsus son). 36-43-betlar.
http://scholar.google.com/citations?view_op=view_citation&hl=ru&user=1xFax7AAAAAJ&pagesize=80&sortby=pubdate&citation_for_view=1xFax7AAAAAJ:PVjk1bu6vJQC
35. Zaripova G.K. In the continuous education system, upgrading and retraining of pedagogic personnel is the current demand. “ACADEMICIA: An International Multidisciplinary Research Journal”. ISSN: 2249-7137. Vol. 12, Issue 06, June 2022 SJIF 2022 = 8.252. A peer reviewed journal. – Page. 8. http://journal.buxdu.uz/index.php/journals_buxdu/article/view/7954/5040;
https://scholar.google.com/citations?view_op=view_citation&hl=ru&user=1xFax7AAAAAJ&pagesize=80&sortby=pubdate&citation_for_view=1xFax7AAAAAJ:Tiz5es2fbqcC
36. Зарипова Г.К. Методы использования программами архиваторов в архивировании и резервировании информации: МЕЖДУНАРОДНЫЙ НАУЧНЫЙ ЖУРНАЛ «ИНТЕРНАУКА» №2 (24) /2017 1 т. 140-142-стр.
https://scholar.google.com/citations?view_op=view_citation&hl=ru&user=1xFax7AAAAAJ&pagesize=80&sortby=pubdate&citation_for_view=1xFax7AAAAAJ:9yKSN-GCB0IC
37. Зарипова Г.К. Обучения студентов компьютерным технологиям: Российская федерация. «Готовим урок». – Курск: – 2016 г. 30 июнь. Свидетельство о регистрации СМИ: ЭЛ № ФС 77 – 65563. http://gotovimurok.com/?page_id=28459Ж;
http://scholar.google.com/citations?view_op=view_citation&hl=ru&user=1xFax7AAAAAJ&pagesize=80&sortby=pubdate&citation_for_view=1xFax7AAAAAJ:q3CdL3IzO_QC
38. Zaripova G.K. Internet tarmog;idan foydalanish ko’nikmalari va uning jamiyat rivojlanishidagi ahamiyati: “Maktab va hayot”. – Toshkent. 2015 y. – №7. – Б.24-26.
https://scholar.google.com/citations?view_op=view_citation&hl=ru&user=1xFax7AAAAAJ&pagesize=80&sortby=pubdate&citation_for_view=1xFax7AAAAAJ:HbR8gkJAVGIC
39. Zaripova G.K., Avezov A.A., Qobilov K.H. Developing the implementation of the digital technologies’ tendency in the training of future teachers. European Journal of Molecular & Clinical Medicine ISSN 2515-8260 Volume 09, Issue 07, 2022. WOS. 5547- 5563- pages.

https://www.ejmcm.com/article_20660.html;

https://scholar.google.com/citations?view_op=view_citation&hl=ru&user=1xFax7AAAAAJ&pagesize=80&sortby=pubdate&citation_for_view=1xFax7AAAAAJ:5U14iDaHHb8C

40. Zaripova G.K. Umumiy o'рта ta'lim maktabi o'quvchilarining yosh va individual xususiyatlarini hisobga olish – ular tarbiyasi samaradorligini oshirishning muhim faktoridir: “TA'LIM VA INNOVATSION TADQIQOTLAR” “ОБРАЗОВАНИЕ И ИННОВАЦИОННЫЕ ИССЛЕДОВАНИЯ” “EDUCATION AND INNOVATIVE RESEARCH.” ISSN 2181-1709 (P); ISSN 2181-1717 (E); SJIF: 3.805 (2021). 2024/1. 288-296-betlar.

https://scholar.google.com/citations?view_op=view_citation&hl=ru&user=1xFax7AAAAAJ&pagesize=80&sortby=pubdate&citation_for_view=1xFax7AAAAAJ:YohjEiUPhakC

41. Zaripova G.K. The Problem of Employment in the Digital Economy in the Government of the Russian Federation: Academic Journal of Digital Economics and Stability 2024, Volume 37, Issue 2, feb-2024, ISSN 2697-2212. 1-7. <https://economics.academicjournal.io/index.php/economics/article/view/885/847>, <https://economics.academicjournal.io/index.php/economics/>.

https://scholar.google.com/citations?view_op=view_citation&hl=ru&user=1xFax7AAAAAJ&pagesize=80&sortby=pubdate&citation_for_view=1xFax7AAAAAJ:rmuvC79q63oC

42. Zaripova G.K. Umumiy o'рта ta'lim o'quvchilarini komil shaxs sifatida shakllantirishda o'zi-o'zini tarbiyalashning ma'naviy-pedagogik o'rmi: “PEDAGOGIK AKMEOLOGIYA” xalqaro ilmiy-metodik jurnal «ПЕДАГОГИЧЕСКАЯ АКМЕОЛОГИЯ» международный научно-методический журнал “PEDAGOGICAL ACMEOLOGY” international scientific-methodical journal. №1(3) 2024. https://scholar.google.com/citations?view_op=view_citation&hl=ru&user=1xFax7AAAAAJ&sortby=pubdate&citation_for_view=1xFax7AAAAAJ:nrtMV_XWKgEC

43. Тураева Х.Г. Виртуальная электронная тетрадь как средство активизации познавательной деятельности ученика. БухДУ. “Инновация – модернизациянинг концептуал асоси”. Республика илмий-амалий анжуман тўплами. 2016/12/24. https://scholar.google.com/citations?view_op=view_citation&hl=ru&user=c3eIKbIAAAAJ&citation_for_view=c3eIKbIAAAAJ:9yKSN-GCB0IC

44. To'rayeva H.G., Ruhilloeva L. O 'QUVCHILARGA DASTURLASHNI O 'RGATISHDA GEYMIFIKATSIYA ELEMENTLARIDAN FOYDALANISHNING TA 'LIMIY VOSITALARI //TA'LIM VA INNOVATSION TADQIQOTLAR. – 2022. – С. 127-131. <https://conf.sciencebox.uz/index.php/INNOVATSIYA/article/view/122>;

https://scholar.google.com/citations?view_op=view_citation&hl=ru&user=c3eIKbIAAAAJ&citation_for_view=c3eIKbIAAAAJ:M3ejUd6NZC8C

45. Turayeva H.G. Ta'limni raqamli muhitga moslashtirish sharoitida axborot texnologiyelarni organishning zamonaviy usul va vositalari. ЦЕНТР НАУЧНЫХ ПУБЛИКАЦИЙ (buxdu. uz), 2021.

https://scholar.google.com/citations?view_op=view_citation&hl=ru&user=c3eIKbIAAAAJ&citation_for_view=c3eIKbIAAAAJ:4TOpqG69KYC

46. Тураева Х.Г. Google classroom – масофавий таълим олишнинг самарали воситаси. “Актуальные вопросы медицинского образования, современные и инновационные методы преподавания”. Международная онлайн конференция // Ташкент. 2020.5.6. 111-113. https://scholar.google.com/citations?view_op=view_citation&hl=ru&user=c3eIKbIAAAAJ&citation_for_view=c3eIKbIAAAAJ:8k81kl-MbHgC

47. Zaripova G.K., Norova F.F., Subxonqulov T. Building the professional competence of globally competitive teachers in digital and information and communication technologies. Journal of Survey in Fisheries Sciences. 10(3S) 2254-2264. 2023. 2254-2264- pages. <https://sifisheriessciences.com/journal/index.php/journal/article/view/844/837>.

https://scholar.google.com/citations?view_op=view_citation&hl=ru&user=1xFax7AAAAAJ&sortby=pubdate&citation_for_view=1xFax7AAAAAJ:-_dYPAW6P2MC

48. Norova F.F. MODELING IN SCIENCE. RAQAMLI IQTISODIYOT, ELEKTRON HUKUMAT VA SUN'IY INTELLEKT UCHUN DASTURIY VOSITALAR, AXBOROTLARNI QAYTA ISHLASHNING ZAMONAVIY USULLARI. 2023/6/17. 168-170.

https://scholar.google.com/citations?view_op=view_citation&hl=ru&user=aPtI2uUAAAAJ&sortby=pubdate&citation_for_view=aPtI2uUAAAAJ:ZeXyd9-uunAC

49. Norova F.F. Ta'limni dasturiy vostalari yordamida rivojlanturish. Miasto Przyszłości Kielce 2023. 2023/10/31.

https://scholar.google.com/citations?view_op=view_citation&hl=ru&user=aPtI2uUAAAAJ&citation_for_view=aPtI2uUAAAAJ:qUcmZB5y_30C

50. Norova F.F. Software for the development of interactive tests for computer science. DEVELOPMENT SCENARIOS AND ALTERNATIVES IN THE MODERN SOCIETY, 108-110. 2023/4/15.

https://scholar.google.com/citations?view_op=view_citation&hl=ru&user=aPtI2uUAAAAJ&citation_for_view=aPtI2uUAAAAJ:L8Ckcad2t8MC

51. Зарипова Г.К. Духовно-педагогическая роль самовоспитания в формировании учащихся общих средних школ как совершенных личностей: - Вухоро: "PEDAGOGIK MAHORAT" ilmiy-nazariy va metodik jurnal. 2023, № 13. 161-169- betlar. https://buxdu.uz/media/jurnallar/pedagogik_mahorat_10_2023.pdf. https://scholar.google.com/citations?view_op=view_citation&hl=ru&user=1xFax7AAAAAJ&pagesize=80&sortby=pubdate&citation_for_view=1xFax7AAAAAJ:86PQX7AUzd4C

52. Зарипова Г.К. Миллий меросимиздаги педагогик технологияга оид ғоялардан фойдаланиш: "Узлуксиз таълим". –Тошкент: 2005 й. –№ 1. – Б. 35-40. https://scholar.google.com/citations?view_op=view_citation&hl=ru&user=1xFax7AAAAAJ&pagesize=80&sortby=pubdate&citation_for_view=1xFax7AAAAAJ:URolC5Kub84C

53. Zaripova G.K. Masofaviy ta'lim tizimida ilg'or pedagogik texnologiyalardan foydalanish usullari: "Fizika, matematika va informatika". – Toshkent. 2014 y. – №5. – B.114-118. https://scholar.google.com/citations?view_op=view_citation&hl=ru&user=1xFax7AAAAAJ&pagesize=80&sortby=pubdate&citation_for_view=1xFax7AAAAAJ:SpbeaW3--BOC

54. Zaripova G.K. The leading importance of education in a secondary school in the formation of the student's personality during the lesson process and in events outside him and in his profession. Journal of new century innovations 49 (1), 148-163. https://scholar.google.com/citations?view_op=view_citation&hl=ru&user=1xFax7AAAAAJ&cstar=t=20&pagesize=80&sortby=pubdate&citation_for_view=1xFax7AAAAAJ:umqfdrvDiIC