

JAIDE

ISSN : 3032-1077

<https://doi.org/10.61796/jaide.v1i7.768>**THEORETICAL ASPECTS OF TEACHING SUBJECTS IN AN E-LEARNING ENVIRONMENT****Asadova Yulduz Ismatovna**

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Received: May 22, 2024; Accepted: Jun 29, 2024; Published: Jul 23, 2024;

Abstract: This article is compiled in theoretical aspects of teaching subjects in an e-learning environment accordance with the information technology science program in education, the methodology for using electronic platforms for students to master independent educational hours allocated to subjects in the conditions of a modular credit system in higher education institutions, in addition, students also have the opportunity to use electronic platforms in educational training sessions in the process of mastering independent educational topics From this article, the student receives the advice he needs and the answer to the questions he search article can be used in the organization of Independent Education of students in all institutions of higher education.

Keywords: LMS, E-learning, ICT. Moodle platform

This is an open-access article under the [CC-BY 4.0](https://creativecommons.org/licenses/by/4.0/) license**Introduction**

The process technology of globalization in the world assumes the integration of Higher Education Standards and programs and the organization of educational services according to their needs, taking into account the mobility of Education recipients. It is of urgent importance to direct students to independent education, to use modern technologies and to teach them to use creative, non-standard solutions in solving problems.

In the context of the achievement of distance education in the world, special attention is paid to mastering advanced experience in the training of competitive personnel at the national and international levels of higher education institutions, the application of digital technologies to the training process and the transformation of the information environment. In particular, the growing popularity of Independent Education of students in relation to audience training is largely explained by the fact that teaching platforms are widely introduced into the higher education system. This sets the tasks for higher education institutions such as strategic development of Education, application of advanced experience to the teaching process, creation of a wide range of conditions for independent education of students through ICT, design of software electronic platform application system, development of the necessary methodological support for distance education portals, formation and development of competencies for the use of this system in.

Scientific and pedagogical research is carried out at a number of universities around the world, as well as scientific research centers, aimed at ensuring the continuity of education and training, their integration, the use of advanced teaching methodologies and pedagogical software tools in these processes. Special attention is paid to the formation of the educational process using full-fledged modern software tools, the ability of students to independently search and think independently in their

independent education, to highlight the methodology for using distance electronic platforms intended for independent education to students of Higher Education on the basis of modern information and technology components.

The development of recommendations aimed at using components of information and communication technologies in the assimilation of independent educational topics by students of a higher educational institution is considered an urgent issue of today [12,14].

Methods

As we noted in the process of analyzing the sources studied above, our observations of the experiences of the world using the basis of advanced teaching technologies at a high level indicate that the application of distance electronic platforms in the teaching of subjects in the organization of Independent Education of students serves to improve the quality of education in the process of independent [4-7].

To date, in the context of the credit–modular system of teaching in higher educational institutions, it has been found that there are a number of differences between the traditional teaching system with the design of an educational process based on independent educational technologies based on the Moodle electronic platform in order to qualitatively organize the student’s acquisition of independent education as a result of the [3-8].

By the decision of the president of the Republic of Uzbekistan “on the parameters of the state order of admission to higher education institutions of the Republic of Uzbekistan in the academic year 2021/2022” of June 22, 2021 PL-5157, a credit-modular system of teaching based on international educational standards was introduced in higher educational institutions of the Republic. Based on the credit-modular system of teaching based on the state educational standard and new curricula, students have increased the balance of independent educational hours accordingly, a new type of curricula, working programs, syllabuses and modern electronic textbooks are being created [1-12].

The pandemic of 2019-2023, which took place in the world, led to a change in the conditions of various natural disasters in which personnel are being trained not only in the daytime, evening (shift), distance (online), forms of education, influenced by the informed environment associated with the globalization process. Therefore, in order for students to qualitatively master their independent education, it was established as one of the main tasks—the ability to understand oneself, to mature an independent thinking person, to master the methodology for using distance learning platforms (Moodle). Having received independent knowledge, trained in such conditions, personnel are required to be able to put theoretical knowledge into practice, to think independently, skillfully get out of problem situations, to work selflessly in educating the future generation, to educate young students as competitive personnel on the basis of the requirements of the time, and to become a mature specialist of his profession [3-8].

The issue of qualitative improvement of Independent Education of students is relevant. Nowadays, in combination with traditional teaching, forms of distance education, mixed education(hybrid) forms are used in teaching. From this point of view, it is aimed at creating conditions in order to constantly analyze the knowledge, experience acquired by students in the study of independent educational topics, to fill the shortcomings and gaps in the knowledge they receive in the course of the lesson, to support the continuous growth of intellectual potential in the educated and talented student-youth [3, 11].

To study the didactic possibilities of teaching “Information Technology in education” and support the educational process using the LMS Moodle platform by identifying and improving the methodology for designing educational and methodological support on the electronic platform, organizing and controlling Independent Education; development of recommendations on the organization of pilot work, mathematical-statistical processing of the results obtained, monitoring on the basis of the Moodle platform to study the impact of the use of the LMS Moodle platform on the effectiveness of student mastering in the organization of Independent Education. the analysis of the

essence of the content of such concepts has been determined [1-9].

Result and Discussion

Raising the younger generation in our country as perfectly healthy and independent-minded in all aspects is important in creating new innovative ideas, while they will work independently in the future. Today, many laws and resolutions are being developed by our president to develop a new Uzbekistan. These include the creation of modern digital and innovative technologies and the development of the field of science and the development of production, education, medicine. To implement such reforms, of course, it is necessary for independent research of students studying in a higher education institution in today's time, for their education, educators to keep up with the Times and provide methodological data resources for students to master independent educational topics. At this point, there is a need to further develop scientific research on the basis of the application of information and communication technologies for the organization of Independent Education of students of a higher educational institution, to highlight the criteria and mechanisms for the formation of features that will provide future young specialists with independent education, independent thinking, able to do independent work and create new ideas [7, 8, 9, 10].

Today, the full development of an independent form of education and content in the environment of a credit-modular training system is one of the important factors in the training of qualified future specialists.

Also, in the regulatory documents of the Republic of Uzbekistan on higher education, the independent work of students is indicated as one of the types of training, Independent Education, an important method of obtaining education, a form. Today, it is important to carry out a unified approach to organizing independent educational activities of students, through which a personal approach is carried out, mainly, the content of the tasks offered, as a choice. As a result, it allows students to set goals for their independent education, determine the boundaries of their knowledge and opportunity, and develop the ability to expand [7, 8, 9, 10, 12].

Relying on regulatory state documents on the reform of the higher education system of the Republic of Uzbekistan, it shows that it is necessary to pay great attention to the organization of Independent Education of students of higher educational institutions, to arm them with the methodology of conducting independent activities.

The requirements noted in these documents depend on the content and essence of innovative changes in the system of continuing education, and the students of the higher education institution also belong to the educational process. Because at this stage, in the conditions of the transition of teaching in higher educational institutions to a credit-modular teaching system, the number of hours of Independent Education of students at the expense of the increase in the number of independent educational hours of students also increases. In this situation, students are armed with the elements of being able to make the most of modern computer technologies, computer literacy, traceability, independent research skills and personality spirituality in order to receive an independent education, the ability to work independently, think independently and receive independent knowledge. In such conditions, the modern educational system, its goals and objectives should correspond to the solution of the problem set before the educational process that serves the development of our country. These are subjects in the modern educational system, in particular, the development of the ability of students to receive independent education requires regular promotion in accordance with the level of development of society [9, 11,12].

The demand of today's era is a process in which public policy is spiritually mature and competent, focused on the education of young people, depends on spiritual and moral methods of Education, which encourages students in all areas of the system of continuing education, mainly in the system of higher education, to increase their independent education, thinking, creativity. [8,12].

Current day, the issues of increasing the competitiveness of graduates, increasing their social role in the process of improving the quality of Higher Education on the basis of a competent approach to science and education in the world have been described as one of the relevant areas. In the organization of Independent Education of students based on competencies, the content of modern

professional education is played by the use of electronic distance education (Moodle) platforms, the improvement of their professional competence, along with the Independent Education of students based on the widespread implementation of teaching technologies in practice. contributes to the formation of creative thinking of the student, the ability to work in modern softwar [1-11].

In the process of globalization, the informatization of all areas of human activity is covered, a process that requires a high culture of information from everyone. Therefore, it is necessary to enrich the educational programs of higher educational institutions with information that ensures the development of independent knowledge, skills and intellectual abilities of students. To do this, teaching students to think creatively and make independent decisions leads to an increase in the quality of Education [3-6].

Results

Based on the experience of developed countries today, the implementation of a multi-stage teaching model, the result of the processes of effective organization of Independent Education of students in higher education institutions on the basis of a credit-modular system of teaching, radically changed the reform of Education. Today, in society, it is necessary to train specialists who keep up with the time of creative thinking and acquire modern knowledge and skills. Such activity directly depends on the development of students 'skills for independent education, therefore, in the educational process, it is determined by the increasing volume of hours for students to receive independent education and increasing responsibility of teachers for the development of students' skills for independent work. Development of professional growth, creative activity, creative thinking and initiative of students. Only with this approach will it be achieved to train a specialist who has his own profession and is able to work effectively in the specialty, including in the relevant areas, in accordance with the requirements of a mature modern competition withstand the Times. [1,2,8].

However, the change in the educational paradigm does not imply a complete rejection of the traditional forms and methods of organizing independent education of previously successfully tested students. In the environment of the credit-modular system of teaching, independent types of education can be used in the auditorium and in addition to the audience, the combination of which is organized on the basis of new technologies allows the student to acquire professional knowledge and independently master the relevant skills [7-11].

There has also been a great deal of research and scientific work carried out by scientists and scientific researchers from Commonwealth countries and foreign countries for students to receive independent education. In such a process, the organization of Independent Education of students is carried out by scientific researchers of the qualities of the type of cognitive activity of students A.G. Vyatkin, S.M. Godnik, G.M. Kodjaspirova, A.N. Riblova, M.N. Studied by Skatkin. In particular, the forms of Organization of the activities of students B.P. Yesipov, P.I. Pidcasistius, A.S. Linda, I.I. Ilyasov; studied by. To activate the means of organizing independent education of students M.A. Danilov, M.F. Morozov, studied by. Individualization of Independent Education of students V.A. Kurchatov, V.R. Rizayev, V.A. Learned by the yermakovs. At the same time, the multi-level educational system has its own characteristics of interpreting the essence of the Independent Education of students, its goals. This interpretation should come from the modern understanding of training as a process of managing the formation of the personality of a specialist [12].

The analysis of many scientific publications on the organization of student Independent Education made it possible to determine that most of the research is aimed at using educational programs taking into account the peculiarities of each subject, and the content of assignments and independent work is repeated at different stages of student study. Obviously, among such processes is the educational process, in particular, the process of managing the Independent Education of students in the conditions of the cridet-modular system of teaching [12].

In particular, a survey of teachers of the Shahrizabz State Pedagogical Institute, Navoi State Pedagogical Institute, Bukhara State Pedagogical Institute showed by respondents about the level of their participation in the management of extracurricular students' independent education through electronic platforms, the absence of a system of its planning, organization and control. The LMS

Moodle platform was selected by the teachers to organize students' independent education through electronic platforms within the time set by the curricula, and the Moodle platform for students was created a distance electronic course in Information Technology Science in education and bricked into courses for students to use [12,14].

It should be noted that by combining from the above studies, it is necessary to consider the educational process as a leading form, which ensures the development of professional competence in the process of learning fundamental knowledge and practical skills during the period of Independent Education of students. The main feature of students' independent education in the implementation of a multi-level system of higher education is the meaningful Organization of students' independent education through electronic platforms at all stages of study in a higher educational institution, rich in competitive intellectual potential, able to gain knowledge through electronic educational platforms, aimed at training a specialist and training specialists who can [1-10].



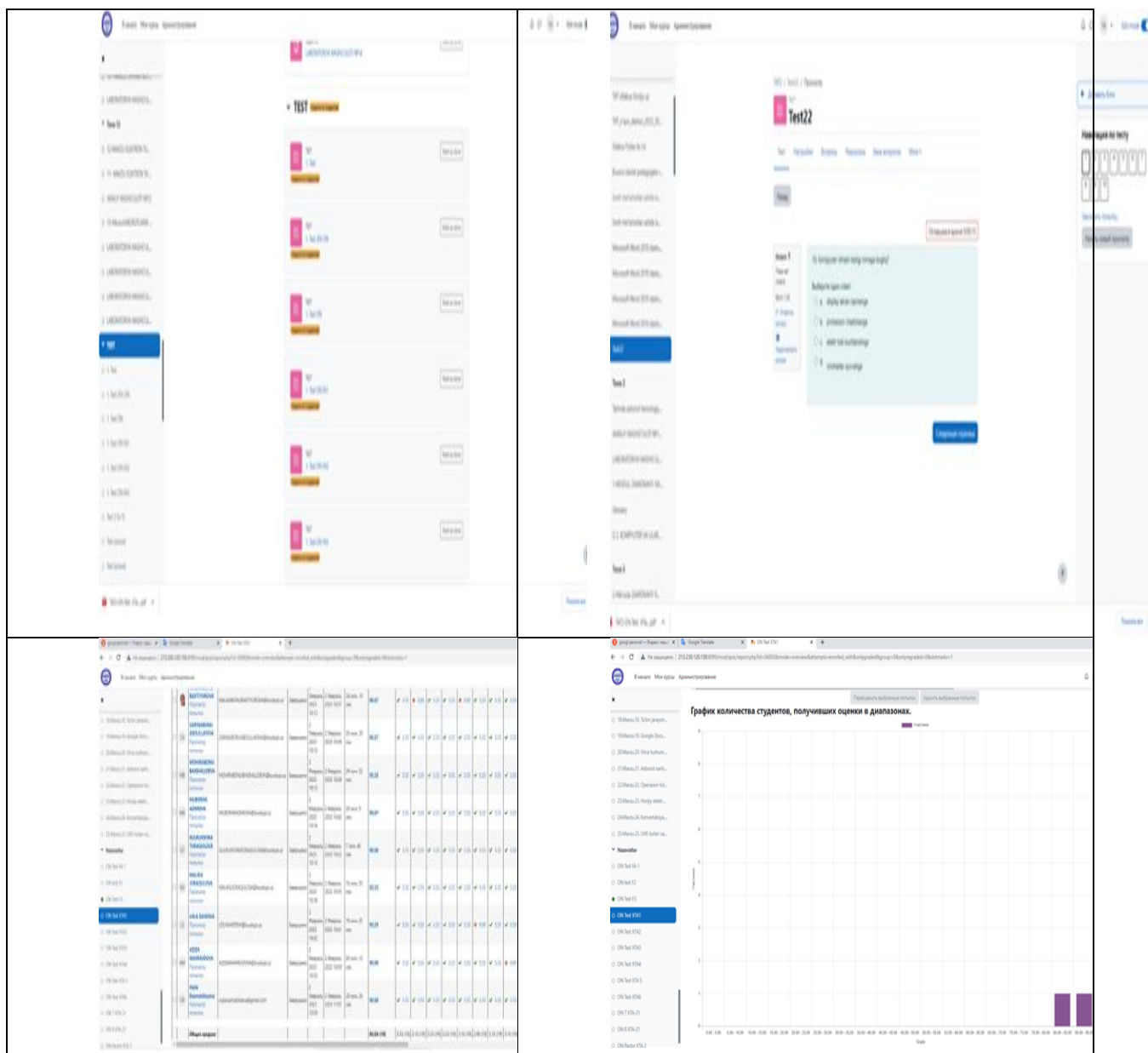
1-figure

An example of a course created using elements of the Moodle electronic platform I is shown in the figure above.

In higher education institutions, students' mastery of independent education contributes to the growth of skills and competencies of their knowledge in obtaining independent knowledge, helps in responsibility, organization, intellectual, creative thinking, creative approach to solve problems at the educational and professional level [12].

The implementation of student knowledge acquisition by organizing independent education of students on the basis of electronic platforms in the conditions of a credit-modular system of teaching in the higher education system, together with the formation of the student's independent thinking, independent work skills, makes it possible for him to form his field in the future as a mature specialist [9].

In higher education institutions, students, using distance platforms in the organization of their independent education, in accordance with the requirements of the state educational standard, should provide independent educational topics that their students should master in the cross section of disciplines in conjunction with improving management by teachers in the formation of an educational program, provide methodological assistance to it and determine the time spent on its implementation. Thus, improving the organization of independent work of students through the use of electronic platforms in the organization of Independent Education of students in higher education institutions is one of the main issues of modern higher education [1-12].



2-figure

On the Moodle electronic platform, students can master independent subjects by taking tests to control how much they have mastered the subjects by increasing their independent knowledge, and if a student is unable to master a subject or subject well, he is given the opportunity to master the subject again, which is often possible to give the student the opportunity to independently master all. From the pictures above, students can be seen to master science and achieve good results.

It is aimed at organizing independent education using modern distance pedagogical software tools for students to qualitatively carry out the program of training specialists with higher education, even with the implementation of the assimilation of independent educational topics allocated to 55% of students from the classes of the audience to work independently in the development of educational subjects. In the process of theoretical analysis of scientific literature, the following contradictions were identified [9].

It was observed that the requests of employers to competent specialists and insufficient implementation of software, information and methodological support for the organization of independent work, in the process of acquiring cognitive skills and qualifications of students in higher educational institutions, they could not apply Information Communication Technologies [1-7].

In the conditions of the credit-modular system of teaching in higher educational institutions,

the level of improvement of students' skills for independent education and insufficient development of scientific and methodological support for the organization of their independent work were determined between the requirements as a result of observation and experiments. Improving the Independent Education of students in higher education institutions on the basis of electronic platforms is one of the current topics of today.

Thus, the importance of the problem and the inadequacy of theoretical and practical work to solve its solution determine the choice of the topic of our research. The purposeful Organization of independent work of students in higher educational institutions on the basis of electronic platforms determines the need to define and solve the following tasks [3-6].

Currently, the role of Independent Education in the process of training future specialists is growing. Because in the learning process, the main thing is not to master ready-made knowledge, but to independently obtain information, methods of cognition that allow you to use it creatively, to develop abilities [2-5].

The implementation of the state educational standard in the organization of independent work of students is carried out on the basis of a modular competency approach. This approach focuses on the outcome of education, resulting in a person's ability to act in different situations, rather than the amount of data learned. In this situation, the educational vector consists in conducting research on oneself, improving knowledge, forming skills for independent work [4-7].

In the psychologic and pedagogical literature, there are different approaches to the definition of the concept of "independent work": work performed within a specified time on the instructions of the teacher, but without his participation, B.P. Studied by Yesipov.

The independent work of students, on the one hand, is considered as a type of educational work carried out without direct intervention, but under the guidance of a teacher, on the other – as a means of involving students in independent cognitive activities, forming their methods of organizing such activities [12].

In general, independent work is considered as a method, a form of Organization of activities, a teaching tool and a type of educational and cognitive activity [12].

The growing influence of current innovative technologies, the penetration of modern digital technologies into our daily lives, on professional activities, at the same time affects the educational process. Today, it represents the importance of using new distance platforms in order to serve the Independent Education of students in order to gain modern knowledge [11].

Higher education institution in order to improve the effectiveness of Independent Education of students, a curriculum and syllabuses of science are required in the studied subject, which will be a logical continuation of the lectures.

The most effective solution to the problem of accelerating the independent work of students is to place educational information on the Moodle electronic platform based on educational materials and create an electronic course. Tasks and tasks for independent work on the platform, sets of questions and test assignments for self-examination, simulators in the studied disciplines, glossaries, video courses provide a wide and convenient opportunity for students to prepare for current control, intermediate and final controls, tests and exams by placing advanced lecture texts, presentations, equipped with links to additional electronic data sources [11,12].

One of the most common and easy-to-use electronic platforms of non-profit LMS electronic distance systems is the LMS Moodle (modular object-oriented dynamic learning environment-modular object-oriented dynamic learning environment), while the free learning management system is aimed at supporting face-to-face learning. Using Moodle, the teacher has the opportunity to create courses, filling them with content in the form of texts, auxiliary files, presentations, questionnaires, dictionaries, video courses, links, test assignments, coach tests, control questions and assignments, independent educational topics and assignments, etc. To use Moodle, it is enough to have any optional web browser. Such a method provides a convenient opportunity and conditions for teachers and students to take advantage of the educational environment. Based on the results of the continuous execution of assignments by students, a convenient opportunity is created for the teacher to constantly

control, evaluate the work of students and create comments. Thus, it is possible to take advantage of the opportunity to create Moodle educational material and provide interactive cooperation between participants in the educational process [1-12].

Moodle was created by many developers and translated into more than a hundred languages, including English, Uzbek, Russian. Main site of the project: <http://moodle.org/>.

A rich collection of content modules for courses - Lictionary, Quiz, URL Chat, Question, Forum, glossary, file, Lesson, Test, questionnaire, SCORM, Survey, Wiki, workshop, resource (in the form of text or web page or directory), etc. Training materials, based on a program-appropriate rule, are accompanied by assignments, exercises and requests, which help to ask questions and combine the presented material in order to understand the monotonous presentation of the material with active actions. Well-planned tasks and exercises will help students constantly update the information received. They serve as a means of accounting for various methods of mastering the material [1-11].

With the Moodle platform, the capabilities it gives users can be grouped by role. For example: students. at anytime, anywhere, independent education, given at a convenient pace for itself, will learn assignments, Independent Education will spend more time studying topics in a better depth, will be given a wide opportunity to perfectly fully study topics; teachers. Updates the course, changes the procedure and method of submitting material depending on the work of the group [2-12].

Distributes instructional load to teachers, electronically loads the assignments that students complete through an electronic platform, resulting in a reduction in student overheads, while students effectively use computer software tools as well as the internet system. Analyzes the academic performance of students by the teacher and management, reduces the cost of managing the educational process. The different tasks offered so that they can master independent educational topics, obtain independent knowledge, and the different measures of their assessment allow the student to observe the results achieved so that if the Dec student is not satisfied with the results obtained, he is given the opportunity to complete the re-assignment again, mastering the topics until better results are achieved, [3-12].

A prerequisite for ensuring the effectiveness of Independent Education of students is compliance with the stages of its organization and conduct. The following stages of Independent Education of managed students can be distinguished [3-11].

The first stage is preparation. It should include the preparation of educational programs, a working program (syllabus) with the separation of topics and tasks for placing subjects of Independent Education of students on the Moodle electron platform; planning the completion of their independent education for students by the end of the semester to the end of their assignments; preparation of educational materials; checking and diagnostics [3-6].

The second stage is organizational. At this stage, the goals of individual and group work of students are determined; an introductory lecture is read, individual and group-oriented consultations are held, during which the forms of Independent Education of students and its control are explained; tasks or controls performed on the Moodle platform, how to complete test control questions, how to load is explained by the teacher [3-7].

The third stage is motivation and activity. At this stage, the teacher should provide positive motivation for individual and group activities; provide them with advice by writing down the achievements and shortcomings of their work in their commentaries in the process of checking the tasks completed by students, check intermediate results; provide an opportunity to organize self-control and self-correction; organize mutual exchange and mutual verification according to the selected [3-8].

The fourth stage is control and evaluation. It includes individual and group reports and their assessment. Results can be presented in thesis and (or) term work, abstract, report, diagrams, tables, oral reports, models, layouts, reports electronically by uploading data to the Moodle platform in File View and in other forms. (depending on time and specialty). Control of Independent Education of students can be obtained using intermediate and final control tests, electronic Moodle electronic

platform, so Dec can be carried out in the auditorium with the help of writing control papers, colloquiums, intermediate tests, etc.

In organizing independent education of students on an electronic platform, the main task of the higher educational institution is to provide audiences of any form with the internet and electronic whiteboards and computers, to create psychological and didactic conditions for the development of intellectual thinking. The basic principle of organizing student independent education through the Moodle electronic platform is to provide all students with the opportunity to receive individual knowledge, to work independently, with the transition from formal passive performance of certain tasks to cognitive activity, forming their own ideas in solving problem issues and tasks. Thus, as a result of the student's independent education with the help of the Moodle electronic platform, the skill of working with modern pedagogical programs is formed for him, learning to make the most of Information Technology, which plays an important role in his future professional activity, the search for the necessary information using internet networks efficiently, the qualification of the, such a process allows the student to learn to make the most of another opportunity to improve his knowledge. in the process of work, it will be necessary for the student to constantly consolidate his qualifications, learn to work with educational materials, work with scientific data in a meaningful and independent way, and manage himself independently.

Conclusion

On the whole, higher education institutions have two important areas of Organization of the educational process for students to receive independent education.

The primary is to upsurge the role of Independent Education in the audience. The application of this method will increase the independent performance of students from the teacher, it is necessary to develop methods and methods of organizing audiences that will increase the quality and efficiency of teaching the student.

The additional is to increase the activity of students in all areas of independent work during extracurricular activities, which is associated with a number of difficulties. First of all, this is the fact that most students and teachers are not ready for this, both professionally and psychologically. In addition, there is not enough information and methodological support of the educational process for the effective organization of independent work.

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