



THEORETICAL PRINCIPLES OF USING MODULAR TECHNOLOGIES IN IMPROVING LESSON EFFICIENCY

Ochilova Makhbuba

Bukhara State University

Annotation: *Through this system, students can use available electronic resources, read, receive assignments and suggestions from the teacher at any time and in any place. The teacher can constantly update resources and monitor the attendance and progress of his students.*

Key words: *educational process, distance education, modern technology, moodle system.*

This article highlights the unique advantages of using modular technologies to improve educational efficiency.

Currently, the interest and attention to the use of innovative technologies, pedagogical and information technologies in the educational process has increased. Improving the effectiveness of education will serve to ensure that young people are at the center of education and that they receive independent education. Classes using modern technologies are aimed at helping students find the knowledge they are acquiring, independently study and analyze it, and even draw their own conclusions. The virtual education system was developed on the open source MOODLE platform and is intended for the organization and management of distance education. In addition to academic regulations for one subject, each structure includes lecture notes, practical training guidelines, terminology, bibliography, test questions, handouts, assessment criteria, training requirements for organizing and managing the process and similar information are located. This system is designed for distance education of students.

Through this system, students can use available electronic resources, read, receive assignments and suggestions from the teacher at any time and in any place. The teacher can constantly update resources and monitor the attendance and progress of his students. Tasks are assigned using tests created by the teacher or by the type of laboratory work. Working on the platform is simple and meets world standards.

Distance education is a form of education based on information and telecommunication technologies, including part-time and full-time education, including the best traditional and innovative methods, teaching tools and forms.

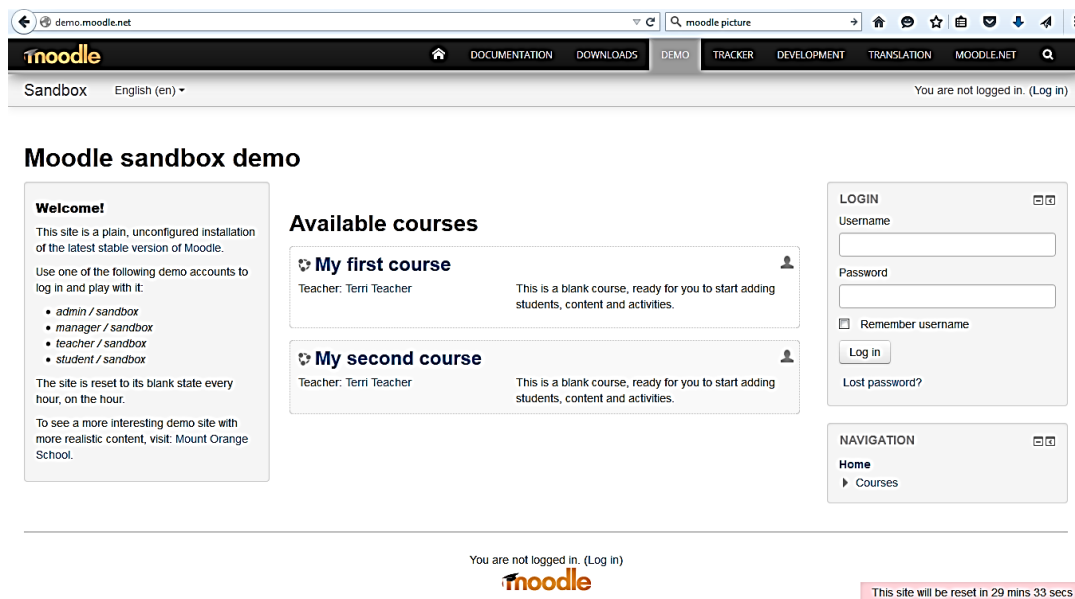


Figure 3. Overview of the Moodle software complex

In order to use the Moodle system, it is necessary to first become a member of the application created in this LMS system. The registration process in the Moodle system is almost the same in all versions. The analysis of the International Council on Distance Education shows that today more than 10 million students worldwide are receiving education based on this method. In the USA, new educational centers are being established for the purpose of training based on this method, and they have the advantages of training and retraining national personnel based on the requirements of the times. The term "modular education" is an international concept related to the module. "Module" is derived from the Latin word "modulus" which means standard, measure. The module divides the studied subject into certain parts and creates a clear system of learning it. A module is such an integrated part of educational content that it is a high-level integrated system of educational content and its technology.

Module content:

- target plan of effects,
- information bank,
- methodical guidance to achieve the didactic goal.

The meaning of a module is a node consisting of closely related elements that can perform a single function. In this sense, it is understood as the main tool of modular teaching, as a complete block of information.

A module represents a fundamental concept of a science: a specific process or law, a department, a specific major topic, a group of interrelated concepts.



A module is a logically completed educational material, formed on the basis of developed principles, aimed at mastering one or several concepts of this subject.

- Modular teaching creates opportunities to comprehensively solve the following modern issues of pedagogical education:
- optimization of teaching content based on module-activity and ensuring flexibility and flexibility of systematization programs;
- individualization of teaching;
- control the effectiveness of training at the level of teaching practical activities and evaluating observable actions.

In the modern theory and practice of modular teaching, two different approaches can be distinguished: the approach of activity by subject and the approach of systematic activity.

The effectiveness of education increases if the module program is given to the student for continuous use during the reading of the block of educational material included in the educational module as a study guide that teaches independent reading.

The advantages of teaching in the Moodle system are as follows:

1. Creative teaching environment. Based on many existing methods, the teacher (pedagogue) teaches, and the students only read the given material. On the basis of the proposed distance learning, the students themselves search for the necessary information from the computer information bank and ensure that their experiences are well communicated with others and that they receive labor education in their place. encourages.
2. The possibility of independent education. Education on the basis of distance learning includes primary, secondary, higher and advanced stages. Inspectors with different levels of training can work around their own timetables and interact with students at their own level.
3. Major changes in the workplace. The type of education on the basis of distance learning creates favorable conditions for millions of people, especially for young people who are studying without being separated from production. Training based on this method plays an important role in the training of personnel.
4. A new and effective means of teaching and learning. Statistics show that distance learning is as effective as learning in isolation. In addition, education based on distance learning goes beyond the limits set by the Higher Education



Institution. The advantage of students studying on such a basis is that they are provided with the best, quality materials and teachers (pedagogues). Based on the methodology of teaching and management, the teacher (pedagogue) should be free from the conditions of teaching in the auditorium. The distance education method is putting new and urgent tasks before the specialist teachers (pedagogues). Because they are required to supplement educational materials, improve their skills with a creative approach and innovations, and coordinate these indicators with the achievements of world science. This teaching method ensures that the student organizes work on himself, strives to learn more, works independently with the computer and creatively uses the acquired knowledge based on the educational requirements, and the acquired knowledge is a special educational method. can be checked and completed with publications, tests.

In short, the essence of modular education is that the student independently achieves the goal set for educational activities in the process of working with modules.

References

1. Ochilova M.K., Rasulova F.I. “XXI asrda ilm-fan tara“XXI asrda ilm-fan taraққиётининг ривожланиш истиқболлари ва уларда инновасияларнинг тутган ўрни” мавзусидаги Республика илмий 3-онлайн конференцияси материаллари 2019 йил 30-апрел. 66-68 б.
2. Ochilova, M. (2023). POSSIBILITIES OF USING THE MOODLE SOFTWARE SYSTEM IN TEACHING CHEMISTRY. Academic International Conference on Multi-Disciplinary Studies and Education, 1(12), 84–86. Retrieved from <http://aidlix.com/index.php/us/article/view/1248>.
3. Ochilova M.K., Ergashov M.Y., Z.K. Qodirova. Modulli ta’lim texnologiyalarini qo’llab “asoslar va tuzlarning umumiy xossalari” mavzusini o’tish // Buxoro davlat universiteti Pedagogik mahorat-ISSN 2181-6883, Ilmiy-nazariy va metodik jurnal, 2-son, 2022 yil, -b-157-160
4. Ochilova M.K., Mutalipova D.B., D.A. Baxranova. The Importance and Effectiveness of the Use of Modern Pedagogical Technologies in the Educational Process // (SCOPUS) Annals of the Romanian Society for Cell Biology annalsofrscb. Annals of R.S.C.B., -ISSN:1583-6258, Issue 1, 2021, Vol-25, Pages. 4822 – 4830, Received 15 December 2020, Accepted 05 January 2021, 4822.
5. <http://www.moodle.org>