Use of modern pedagogical technologies in the educational process of the university

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Abstract. The modern education system today is represented by a variety of various educational technologies existing and used in the practice of educational institutions. The system of higher education in this case is no exception, since it is in the practice of universities responsible for the training of future specialists that we can observe the variety of available educational technologies. The use of innovative technologies in the educational process is justified, because the modern federal state educational standard, which regulates the training of highly qualified personnel, makes certain requirements for the training of specialists. This means that these requirements primarily relate to the quality and content of education. In this case, the quality of education can be ensured if the education system is rebuilt in accordance with the new trends in state policy and the modern order of society. Thus, in accordance with the new requirements, the modernization of education took place, as a result of which the competence-based approach replaced the knowledge one. In this connection, the changes affected, first of all, the content of education and the methods and technologies of teaching used in the educational process.

1. Introduction

Currently, one of the topical and priority areas in the implementation of state policy in the field of education is the training of highly qualified specialists. The training of such specialists is carried out by the higher education system. In this regard, the state faces the issue of ensuring the availability and quality of higher education. The solution to this problem is seen in the introduction into the educational process of modern accessible educational technologies used in the practice of training young specialists.

Thus, the introduction of educational technologies provides an opportunity to create a qualitatively new educational environment that meets the requirements of didactics, as well as the demands of modern society for the training of specialists of a new level - competent, mobile, highly qualified and in demand on the labor market. All these qualities are formed through the introduction of a competency-based approach into the educational process, which makes the educational process technologically equipped and meaningful.

It is with the introduction of the competence-based approach that the methods and technologies of work in the training of specialists change qualitatively. So, the requirements for the resource base are
changing, the material and technical equipment meets the modern requirements for education in accordance with the Federal State Educational Standard.

2. Research problem statement
Among the research tasks are identified:

1) Based on the analysis of scientific literature, determine the current state of the problem of researching modern pedagogical technologies in the educational process of the university.

2) Consider modern pedagogical technologies used in the practice of higher education.

3. Methods
As research methods in this work, we used theoretical research methods: analysis of scientific literature on the research problem; systematization and generalization of the results obtained, formulated in the form of inferences and conclusions.

4. Results and discussion
In the higher education system, along with traditional approaches, modern pedagogical technologies are increasingly used that meet the modern requirements of the federal state educational standard and education in general. This is dictated by the introduction and implementation of the competence-based approach in the educational process, which has become quite strongly entrenched in the Russian education system, in particular, in the higher education system.

It is the competence-based approach that makes it possible to use in the educational process of the university innovative practice-oriented, individualized and differentiated forms of education that meet the requirements of didactics and scientific and technological progress of society.

As our analysis of the psychological and pedagogical literature and the practice system that has already been worked out for years shows, the implementation of this approach in education leads to the development of students' cognitive activity, their activity and independence. As the authors point out, this approach and educational pedagogical technologies implemented within the framework of the approach create conditions for the transition from learning to self-education and student self-development, which is an important condition for the implementation of the competence-based approach [1].

As a result of the analysis of the literature, we found that among the scientists involved in the substantiation and implementation of modern pedagogical technologies in the educational system of the university were G K Selevko, V A Slastenin, V P Bespalko and others. These authors in their studies repeatedly proved the effectiveness of using modern pedagogical technologies in the educational process of the university [2].

Thus, G K Selevko, considering the term "pedagogical technologies", indicates that pedagogical technology is a model of pedagogical activity thought out in all details. At the same time, this activity includes the design, organization and conduct of the educational process with the unconditional provision of comfortable conditions for both students and teachers [3]. V A Slastenin takes a similar position, considers pedagogical technologies as pedagogical activity [4].

V P Bespalko, considering this concept, interprets it as a set of means and methods of reproducing theoretically grounded learning and upbringing processes that allow successfully implementing the set educational goals [2]. Thus, the authors, considering the understanding of the term, put a pedagogical meaning into it.

Among the most popular in the system of the university, the authors highlight the technologies of active and interactive teaching methods. However, with all the variety of various modern pedagogical technologies, the traditional approach is still reflected in the educational system of the university, and sometimes it is the leading one [5].

Initially, this approach was substantiated in the works of Ya A Kamensky and consisted in the transformation of knowledge from teacher to student. However, despite its long history, we still see that the Russian education system is built precisely within the framework of the traditional approach, but
there are some elements of educational technologies or even educational technologies of the whole, implemented within the walls of the university [6].

So, G K Selevko, considering the modern system of higher education, indicates that the lecture-seminar-credit system of education, which is widely used in the practice of higher educational institutions, belongs, according to the author, to traditional technologies. Among the advantages of traditional technology G K Selevko notes the clarity of the content of the material presented by the teacher and the variety of activities, however, the process is only in the Russian education system, but also abroad. At the same time, the lack of an individual approach to the trainee and poor feedback.

The technology of problem learning is interesting in the practice of higher education, since this technology stimulates the student's independent search activity. Among the methods of problem learning in working with students, perhaps the most practice-oriented activity is solving situational problems. The method of solving situational problems allows students to form professional competencies that meet the requirements of the federal state educational standard, and also evokes an emotional response from students [7].

In our age of informatization and rapidly developing information and educational technologies, information technologies are increasingly included in the educational process of the university, because digital resources are now becoming an integral attribute of modern educational.

The use of information and communication technologies in the educational process is justified, since their application in the practice of the university allows to improve the learning process. This is due to the fact that information and communication technologies allow, first of all, to expand the sources of information received. Thus, university students possess all possible information means that allow them to acquire not only knowledge, but also skills and abilities [8].

In the current conditions of the pandemic (COVID 19), this technology is becoming, in our opinion, the most popular and relevant, which is explained by the opportunity for the student to use a variety of educational sites in order to provide themselves with information and the organization of educational activities without leaving home. Thus, distance learning forms that are actively used in the educational process make it possible for a student to receive a high-quality education through the LMS Moodle electronic-distance learning system, as well as university webinar rooms: Zoom, Skype, Webinar, Microsoft Teams, etc. Current practice shows that the implementation of the educational process through the use of online courses, it allows the student to obtain information and knowledge necessary for the successful mastering of a future profession in a short time Interactive teaching methods are also widely represented in the practice of higher education, since through dialogue and live interaction they allow the student to acquire skills and abilities in solving professional problems. Increasingly, in the practice of higher education, methods of brainstorming, discussion, etc. are used here.

5. Conclusion

Thus, based on the analysis of scientific literature and existing practice, it can be concluded that the existing pedagogical technologies used in the educational activities of higher educational institutions significantly and qualitatively change the traditional teaching approach, supplementing it with new modern teaching methods that meet the current requirements of the federal state educational standard ...

The need and timeliness of the use of new pedagogical technologies in the educational activities of higher educational institutions does not raise doubts, since it substantively changes the technology for the formation of educational material and the practical application of the acquired skills and abilities in practice.

The use of the latest pedagogical technologies in the educational activities of higher educational institutions is of great practical importance in the organization of educational activities in the higher education system.

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