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# MODERN SCIENCE: PROBLEMS AND INNOVATIONS



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## MODERN SCIENCE: PROBLEMS AND INNOVATIONS

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#### УДК 378.14

#### INTRODUCTION OF BLENDED LEARNING TECHNOLOGY

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Introductions. Finding optimal models and content to achieve software learning outcome. The use of online technologies makes learning more technological. Technologies can both improve and worsen its effectiveness, and therefore it is necessary to thoroughly study all the theoretical and methodological principles of teaching. For high-quality blended learning in a particular discipline, it is necessary to choose which types of activities will have the best effect online (synchronously or asynchronously), and which — through direct contact, to what extent and in what sequence. Distance or online technologies are the basis for the interaction of the subjects of the educational process in both blended learning and distance learning. In distance learning, the indirect interaction of subjects through online technology is crucial. This type of education is defined by the Law of Ukraine "On Education" as a separate form of education — distance.

**Aim**. To present the model of blended learning of TNPU as approach, pedagogical and technological model, methodology, which along with Internet technologies is also based on direct interaction between students and teachers in the classroom.

Materials and methods Simple introduction of technologies in traditional teaching can make the educational process somewhat more adapted to modern requirements, but will not fundamentally change itseffectiveness. Such training can be called high-tech. Understanding blended learning as a learning model that gives students certain elements of control over the study of the material and the ability to personalize learning, opens up much broader prospects. The basis for the effective

use of blended learning is the technological readiness of teachers, students and educational institutions, as well as thorough methodological training of each discipline, choosing the optimal model of the learning process, designing a learning scenario as a sequence of actions and experience gained during the course. only classroom classes, and above all independent work of students. Qualitatively implemented blended learning significantly improves the educational process. Technological solutions are able to ensure the availability of materials, the possibility of constant support for students, the convenience of monitoring the learning process, automation of part of the teacher's work. Methodical approaches provide immersion of students in the learning process, learning the material, effective interaction between subjects, personalization of learning [2].

Results and discussion. Basic approaches to the implementation of any model of blended learning are important, and the specifics of each discipline and individual pedagogical approaches of the teacher create the preconditions for the formation of their own effective models. Well-known are rotational models, which are also used in the educational process of Ternopil Volodymyr Hnatiuk National Pedagogical University, among them the inverted classroom, flexible model, self-mixing model and in-depth virtual model. But this list is not unique, and the classification is quite conditional, as often different models are combined or supplemented, based on the needs of individual courses and student groups in the field.

There are several potentially important factors that may change each year and thus affect the course scenario: the specifics of the context in a particular situation, the number of students in the group; in what year of study students take the course; minimum and maximum duration and frequency of classes; place and method of classes [1]: in the classroom, in the laboratory, online; academic discipline more theoretical or practical; students have special life situations, special educational needs; with what motivation they come to the course, what are their expectations from the course; which learning style is preferred.

To implement an effective model of blended learning, it is necessary to approach the planning of the entire process of studying the discipline as a set of interconnected types of student learning activities. To do this, you need to: clearly articulate the expected learning outcomes of the course and understand how they relate to the goals of the educational program; understanding how we can assess the progress of achieving expected learning outcomes at different stages; a plan of topics and activities for the whole course, where each element is directly related to the expected learning outcomes.

Each course contains three components that must be consistent with each other:

1. Expected learning outcomes, which are consistent with the objectives of the educational program and program learning outcomes. 2. Assessment, which verifies the identified learning outcomes. 3. All activities during the course that are aimed at achieving learning outcomes. To design or adapt the course, both theoretical and practical, we propose to use an approach: to structure students' learning, focusing on assessment, which is specifically designed to demonstrate that applicants have achieved the objectives of the course [3].

If the objectives of the course are a general vector, then to understand whether we have progressed towards these objectives, we need a clear description of the learning outcomes that will demonstrate this progress. It is a description of the knowledge, skills, abilities and key competencies required to demonstrate the achievement of the course objectives during the final assessment. It should be clear to applicants statements that describe what applicants will be able to do at the end of the course. One model that will help at this stage is the SOLO (Structure of the Observed Learning Outcomes) taxonomy [4]. SOLO illustrates qualitative differences between students' responses because it describes levels of understanding. SOLO taxonomy classifies understanding into five levels: 1. Prestructural: at this level the student does not understand the question. 2. Unistructural understanding: the answer contains only one aspect. 3. Multistructural: The answer contains several unrelated aspects. 4. Relational: The answer has several logically related aspects. 5. Extended abstract: Demonstration of an abstract and deep understanding, broader than was provided in the course, and its application to other situations.

Conclusions. Because well-formulated learning outcomes clearly define where a teacher plans to take his or her students at the end of the course, they significantly help students navigate the process. It is for this purpose that learning outcomes are included in the syllabi of each discipline and the lecturer can refer to them from time to time, showing students how the proposed tasks and activities will help them achieve a particular result.

During the semester, a dialogue is conducted with students on the effectiveness of learning to determine how much they think they have progressed in achieving these results. Clear learning outcomes not only help in the final assessment, but also correctly guide the educational process.

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