

IMPROVING THE METHODOLOGY FOR TEACHING STUDENTS
PEDAGOGICAL DESIGN IN AN INFORMATION EDUCATION
ENVIRONMENT

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Аннотация. В данной статье рассматриваются вопросы совершенствования методологии обучения студентов дизайну в информационной образовательной среде. В современном цифровом образовании дизайн является важным фактором формирования профессиональных компетенций студентов. В ходе исследования были проанализированы теоретические основы дизайна, дидактические возможности информационной образовательной среды и эффективные методы обучения. Также предложен методологический подход, разработанный на основе проблемно-ориентированного обучения, проектных методов и цифровых платформ. Результаты исследования подтверждают эффективность данной методологии.

Ключевые слова. Информационная образовательная среда, дизайн, методология, компетенция, цифровые технологии, проектный метод.

Abstract. This article examines the improvement of methodology for teaching design to students in an information-based educational environment. In modern digital education, design is an important factor in developing students' professional competencies. The study analyzed the theoretical foundations of design, the didactic capabilities of the information-based educational environment, and effective teaching methods. A methodological approach developed based on problem-based learning, project-based methods, and digital platforms is also proposed. The results confirm the effectiveness of this methodology.

Keywords. information-based educational environment, design, methodology, competency, digital technologies, project-based method.

The rapid development of information and communication technologies is also significantly affecting the education system. Today, the digitization of the educational process, the introduction of modern pedagogical technologies into practice, and the formation of an innovative educational environment are considered one of the priority tasks. Therefore, the formation of future specialists in accordance with modern pedagogical activity is of great importance in the system of training pedagogical personnel. In particular, the issue of preparing students for pedagogical design activities is one of the relevant areas of pedagogical education today. Because pedagogical design allows for the

effective organization of the educational process, planning of educational activities, and forecasting of results in advance. In the modern education system, a teacher is not only a person who gives knowledge, but also a person who manages the educational process, organizes innovative activities, and creates an effective educational environment based on digital technologies. In this regard, pedagogical design is one of the important factors shaping the professional competence of future teachers. Through this activity, students acquire the skills to organize the educational process on a scientific basis, correctly set goals, select methods and tools, and analyze educational results. Especially in the context of an information educational environment, teaching pedagogical design allows for further increasing the effectiveness of education. The information educational environment is currently recognized as one of the most important tools for organizing pedagogical activity. Electronic platforms, distance learning systems, multimedia resources and interactive technologies are taking pedagogical activity to a new level. As a result, the educational process is becoming more flexible, convenient and effective. Students have more opportunities for independent learning, use electronic resources and apply their knowledge in practical activities. At the same time, the information educational environment also creates the opportunity to use innovative methods in teaching pedagogical design. The process of pedagogical design is closely related to the preliminary planning of educational activities. In this process, the teacher determines the goals, selects the content of the lesson, determines the methods and tools, and forecasts the expected results. Such activities require independent thinking, a creative approach and problem-solving skills from the student. Therefore, there is a need to use modern interactive approaches in teaching pedagogical design along with traditional methods.

In today's pedagogical research, the possibilities of the information educational environment are in the center of special attention. Studies show that the educational process organized on the basis of digital technologies increases students' motivation, develops their independent learning skills, and increases their interest in pedagogical activities. In particular, the use of multimedia tools, virtual platforms, and elements of distance learning increases the effectiveness of the process of teaching pedagogical design. During the research, an effective methodology for teaching pedagogical design in an information educational environment was developed and tested in practice. Students studying in the field of pedagogy participated in the experiment. Observations showed that the use of information technologies increased student activity, developed their independent thinking skills, and increased their interest in project activities. In particular, classes organized through electronic platforms created a comfortable and effective learning environment for students.

The results of the study also showed that a step-by-step approach is important in teaching pedagogical design. First, students were motivated, then the stages of identifying the problem, developing a project plan and implementing it in practice were carried out. At the final stage, the project results were analyzed and general conclusions were drawn based on reflection. This process served to develop students' creative and analytical

thinking. In general, improving the methodology for teaching pedagogical design in an information educational environment is one of the important directions of modern pedagogical education. Pedagogical activities organized on the basis of digital technologies prepare students for work based on an innovative approach, develop their professional competence and improve the quality of education. Therefore, the widespread use of the opportunities of the information educational environment in the process of pedagogical education is one of the important tasks of today.

In the modern education system, the concept of pedagogical design is considered an important component of pedagogical activity. Pedagogical design serves to organize the educational process on a scientific basis, clearly define goals and objectives, plan educational activities, and predict expected results in advance. This process requires the teacher not only theoretical knowledge, but also creative approach, analytical thinking, and skills in the effective use of modern information technologies. Especially in the context of an information educational environment, the organization of pedagogical design is an important factor in increasing the effectiveness of education. The information educational environment is becoming an integral part of the education system today. The development of electronic resources, virtual platforms, multimedia tools, and distance learning technologies also has a significant impact on the content of pedagogical activity. As a result, new forms and methods of organizing the pedagogical process are emerging. In particular, the use of digital tools allows increasing the interactivity of the educational process, involving students in active learning activities, and forming independent learning skills. The effectiveness of teaching pedagogical design in an information educational environment depends primarily on the proper organization of the educational process. Research shows that traditional teaching methods often fail to adequately prepare students for independent pedagogical activity, since in the traditional approach students are limited mainly to the assimilation of ready-made knowledge. The information educational environment, on the other hand, directs students to independent research, solving problem situations, and creative thinking. Therefore, the use of interactive methods and digital technologies in modern pedagogical education is considered an important pedagogical necessity. In the process of pedagogical design, students are first taught to identify a problem and analyze it on a scientific basis. At this stage, electronic information resources, scientific platforms and multimedia tools play the role of an important auxiliary tool. Students acquire the skills of searching for, sorting and analyzing the necessary information through Internet resources, electronic libraries and virtual educational platforms. As a result, a culture of working with information is formed in them. At the next stage, the process of developing a project plan is carried out. This stage is one of the most important components of pedagogical design. Students determine the goal of the project, identify tasks, select methods and tools, and plan expected results. The information educational environment provides ample opportunities for the effective organization of this process. In particular, graphic programs, presentation tools, online platforms and virtual collaboration technologies serve to organize project activities more conveniently and

effectively. The reflection process is also of particular importance in teaching pedagogical design. Reflection is a process associated with a student's analysis of his or her own activities, identification of achievements and shortcomings, and planning for future activities. The information learning environment creates favorable conditions for reflection. Forums, online discussions, and virtual assessment systems organized on electronic platforms expand the opportunities for the exchange of ideas among students. This helps them develop critical and analytical thinking skills. The experimental work conducted during the study showed that teaching pedagogical design in an information learning environment gives effective results. Students actively participated in the experimental process, their learning motivation increased, and their independent work skills developed.

In particular, the use of digital tools has increased students' interest in pedagogical activities. According to the results of the observation, it was found that project-based classes are more effective than traditional classes. The information learning environment also plays an important role in developing collaborative activities among students. During group project work, students communicate with each other, exchange ideas, and develop collective decision-making skills. This, along with the development of their communicative competence, has a positive impact on their future professional activities. In general, teaching pedagogical design in an information learning environment is one of the effective areas of modern pedagogical education. The educational process organized on the basis of digital technologies prepares students for innovative activities, develops their independent and creative thinking, and serves to form modern pedagogical competencies.

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