



## **IMPROVING THE FORMS OF PROFESSIONAL ORIENTATION IN TRAINING SPECIALISTS**

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**Abstract:** This article discusses the pedagogical and psychological characteristics of career guidance, the improvement of these approaches based on modern methodologies, the introduction of the latest information and communication technologies, and enhancing its content with scientific achievements in the field of knowledge.

**Keywords:** profession, biological sciences, development, specialist, capability, talent, visualization.

### **Introduction**

Aligning the education system of our country with international standards, ensuring the quality and competitiveness of higher education institutions in preparing specialists, and improving the quality of higher education systems based on global practices are among the priority areas. The implementation of educational projects, introduction of scientific and innovative achievements into practice, and methods of improving the efficiency of this process are recognized as one of the most important directions. In the strategy for the development of Uzbekistan, measures to strengthen the material and technical base of educational institutions by building, reconstructing, and providing them with modern laboratory equipment, computers, and educational-methodical materials are highlighted as priorities.

The generalization and development of positive outcomes based on foreign educational experiences, the creation of unified information-educational portals in the field of biological education, and the creation of scientific portals that provide unified information-methodological support for the sciences are important tasks. It is crucial to equip higher educational institutions with modern information and communication technologies, expand access to global educational resources, and increase the access of students, teachers, and researchers to data centers of modern information resources.

In the modern context, career guidance for students requires constant adaptation to changing conditions. Therefore, it is important to improve the methods for enhancing the methodological preparedness of students in higher education institutions, develop didactic foundations, pedagogical conditions, content and structure, improvement criteria, and effectiveness of teaching methods to increase the effectiveness of teaching.

It should be noted that the result of academic activity in higher education institutions is the process of mastering professional knowledge. However, there are situations when even a well-prepared specialist may not be ready for the required activity at a given moment. In such cases, it is impossible to successfully implement professional activities, or they may be ineffective. Clearly, the professional preparation of a specialist is not only about mastering the required level of professional knowledge but also involves psychological preparation, self-management, and the ability to adapt to the tasks at hand.

### **Professional skills and competence**

Professional skills and competencies are practical skills that emerge from the process of activity, turning theoretical knowledge into applicable actions. The goal of using technical tools in education is to equip students with pedagogical principles, knowledge, and the ability to apply modern technical tools effectively in their practical activities. Technical tools in teaching include special didactic materials (information sources) and devices (various tools and machines) that provide efficient communication channels in the educational process.

The study of technical tools in education and their application by students offers several advantages:

- Effective use of visualization in teaching.
- Optimization of information delivery.
- Increased effectiveness in the acquisition of knowledge, skills, and competencies.
- The main objective of educational technical tools is to enhance the effectiveness of the teaching process.

### **Didactic foundations of educational tools**

In the rapidly developing modern era of science and technology, increasing the productivity of both teachers and students and speeding up the educational process remains one of the primary challenges in pedagogy. The advancement of science and technology has significantly increased the amount of information that must be delivered to students. The traditional methods of delivering this information are becoming increasingly complex. However, scientific discoveries and innovations can be presented more effectively through the use of specialized tools and apparatus.

In this context, optimizing the educational process without changing the duration of the course, providing students with in-depth and comprehensive knowledge, and fostering independent learning skills are critical tasks. The use of technical tools is vital in this regard. Classrooms equipped with automated systems and modern educational tools are crucial for facilitating the learning process. The methodology for using technical tools should be well-developed and tested, with ongoing improvements to the didactic materials.

### **Research findings**

There is a growing need for the modernization of the education system worldwide, adapting it to rapid technological advancements, and preparing specialists for new fields. The process of improving the quality assessment tools and mechanisms for higher education institutions has been discussed widely. Major scientific research in the field of training professionals is being conducted in many countries, including Japan, the USA, Canada, the UK, France, Russia, Germany, Norway, Sweden, Denmark, India, Austria, and Iceland.

The process of training specialist personnel requires modern approaches. In developed countries, efforts to organize professional training in line with international standards have led to the implementation of systems that regulate information and communication technologies. In our country, there are ongoing efforts to adapt professional training to global standards by developing electronic educational resources, enhancing distance learning opportunities, and reforming education.

The "Strategy for the Development of New Uzbekistan" adopted in January 2022 emphasizes the introduction of international standards for education quality assessment, which is a clear reflection of the discussed approach. Furthermore, significant work is being carried out to integrate modern technologies into training and improve the mechanisms for preparing students for professional activities in line with modern demands.

### **Conclusion**

The preparation of specialists in higher education institutions requires a thorough analysis and improvement of pedagogical, psychological, and methodological aspects. The introduction of new, modernized systems for student guidance and training is essential to improving their professional competencies. The study shows that the use of innovative methods, including interactive teaching, has an immense role in the successful training of qualified professionals.

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