

## The concept of Education in the Training of Future Engineers

*Feruza Islamovna Mamurova*

*Tashkent State Pedagogical University, independent researcher*

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**Abstract** Competent approach - training of future engineers-builders to effectively use the main and additional professional functions provided in the content of the professional activity, as well as the different types of skills acquired in situations encountered in the personal, professional and social life of the student

**Key words:** competence, education, pedagogue, method, specialist, knowledge

### INTRODUCTION

One of the tasks of the concept of continuing education is to staff the education system. As noted above, the novelty of higher education institutions, their difference from previous vocational education institutions is reflected in the new requirements for teaching staff. In this regard, there is a need to develop specific software and methodological components for teacher training in professional colleges. A systematic, comprehensive approach to the problem under study includes the requirements for the specialist, the separation of new principles of their training, the task of identifying meaningful, organizational and process components on the basis of personal and activity approach.

### MAIN PART

In the system of professional development in the world and in Uzbekistan it is important to create e-learning complexes for teachers, improve their competence, pedagogical mechanisms for developing competencies in the use of virtual learning technologies, improve the organizational and functional model of creating e-learning programs, develop innovative technologies for web quests earns.

Consistent measures are being taken in our country to raise the education system to a new level, improve the quality of teacher training on the basis of advanced international standards and increase the level of coverage with higher pedagogical education.

At the same time, the results of the analysis of the supply of highly qualified personnel for the social sphere and the economy show that it is necessary to pay more attention to the quality of training, the widespread introduction of advanced foreign experience in the field, improve the pedagogical education infrastructure.

Further improvement of pedagogical education, training of highly qualified specialists with modern knowledge and skills to apply pedagogical technologies, training of highly qualified specialists who will make a worthy contribution to the socio-economic development of the country, introduction of advanced educational technologies, as well as January 24, 2020 In order to implement the tasks set out in the Address to the Oliy Majlis:

improving the quality of education, training competitive personnel, effective organization of scientific and innovative activities by ensuring the integration of education, science and industry in the field;

Regular study of the needs and requirements of teachers, the development of cooperation with them, as well as the definition and implementation of scientifically based long-term plans for the training of teachers; [1]

We believe that the requirements for professors and teachers need to pay more

attention to two aspects, professional competence and culture of future civil engineers.

Analysis of the modern literature on the problems of pedagogical competence shows that there is no single interpretation of the definition and content of the terms "competence" and "pedagogical competence".

N.V.Kuzmina distinguishes the following 5 elements of pedagogical competence: special and professional competence of the teacher in the field of teaching; methodological competence; social psychological competence; differential-psychological competence; autopsychological competence [2]

In the Uzbek dictionary, competence (Latin Competere - to be competent, worthy) is defined as a person's awareness of a field, the level of knowledge of that field. [3]

Competence is not the acquisition of individual knowledge and skills by the student, but the acquisition of integrative knowledge and practical actions in each independent direction. [4]

According to Sh.Sharipov, competence is a person's knowledge, skills and experience, his socio-professional status and ability to perform relevant tasks, the ability to solve problems and the level of real compatibility. In addition to pure professional knowledge, skills and competencies, competence includes initiative, cooperation, ability to work in a team, communication skills, realistic assessment, logical thinking, information sorting and use. [5]

Based on the definitions of the concept of competence, the essence of the competent approach in the training of future civil engineers can be interpreted as follows:

Competent approach - the main and additional professional functions of the future

engineers and builders, as well as the effective use of various types of skills acquired in the personal, professional and social life of the student, the effective application of skills, the initiative and inner potential of the student. is the process of creating conditions for production.

The essence of the concept of "competence" includes the following components: existing knowledge for effective work, a set of practical skills, mastery of algorithms for solving problems at different levels, creative approach and ability to work, work experience, etc.

Nowadays, professional competence as a qualitative characteristic of a person includes: perfect knowledge of one's subject; formed scientific thinking; mastering teaching methods; to know the psychological specificity of students and to use them skillfully in their practical activities.

Professional competence - the acquisition by a specialist of the knowledge, skills and abilities necessary for the implementation of professional activities and their high level of practical application.

Professional competence of the teacher. In Uzbekistan, the professional competence of the teacher, its peculiarities are wrapped, among which the research conducted by B. Nazarova is of particular importance. According to the researcher, on the basis of professional competence specific to the teacher, the following structural bases are formed.

### **CONCLUSION**

The development of modern society, which is entering the information environment of development, requires consideration of the role and importance of information and information processes, new technologies of information processing, telecommunications based on computer systems. At present, information

technology, which surrounds all areas of production activities and a certain part of our lives, is available and widely used. The introduction of such technologies allows the speed of information exchange and reliability of storage, its automatic processing, while significantly changing the way of thinking and the nature of professional activity of the specialist.

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