

MEASURES TO IMPROVE INFORMATION TECHNOLOGICAL COMPETENCE OF FUTURE TEACHERS IN MODERN EDUCATION

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Abstract:

The significance of information technology proficiency in today's education is discussed in this article, along with strategies for enhancing future teachers' proficiency in this area.

Key words: information technologies, information technological competence, ICT competence of teachers, Internet technologies, search-analytical, information-communication, information – instrumental

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The emergence of a new element in the pedagogical system, new information technology changes its functions in many ways and allows to achieve new pedagogical results. therefore, it serves to increase the productivity of his professional activity, that is, to improve the quality of education. Reviewing the structure of the teacher's activity on the use of new information technologies in the educational process through pedagogical skills in accordance with the model is also one of the important issues.

The information technological competence of the teacher serves as the development of this competence of the graduate of secondary or higher education, and the effective implementation of various forms of knowledge, skills and information activities by the educator - pedagogue, as well as the use of new information technologies in professional educational activities. It is understood as a professional and personal quality of a pedagogue, reflecting a set of useful relationships. This includes professional knowledge, skills and motivation to perform information activities specific to the teacher, preparation for using new information technologies in the educational process.

Information technological competence is the capacity of an educator to apply office and computer engineering, information technologies in daily life and in the classroom, both practically and theoretically.

According to A.A.Temerbekova, the teacher's information technology competence is an indispensable, multi-level, professionally important personal education, which is manifested in the ability to work with various information in pedagogical activities [3].

In the current conditions of modern education, the development of the information-technological competence of specialists in the field is a very important issue. Because in practical processes today, it is impossible to achieve the desired or sufficient result without the use of information and communication tools. Accordingly, one of the main tasks of the modern education system is to develop ICT competence of teachers. Formation of teacher's ICT competence can be done in the following ways:

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- continuous self-development and professional development using Internet technologies, participation in webinars and master classes;
- participation in professional skill contests, methodical development contests, science and ICT competency tests;
- create a website or blog to share information with students and their parents, colleagues, etc.;
- mastering cloud technologies, creating and using science and elective courses or providing access to working materials through Internet services.

Teacher training in the field of Internet technologies will be effective in the following cases:

- Constantly and continuously improving the professional qualifications and skills of teachers in the field of Internet technologies;
- Wide use of design methods in the process of improving the qualifications of teachers in the field of Internet technologies;
- Development of a block-module structure, taking into account the specificity of education, for teacher training using Internet technologies.

Methodological preparation of teachers in the field of Internet technologies includes knowledge of education and upbringing methodology, laws, factors, structure, teaching methods and implies having the following [2]:

- advanced methods of organizing and implementing the educational process using modern Internet technologies;
- strict skills in determining the correct method of teaching the subject, taking into account the characteristics of the e-learning tools, their content, and the age characteristics of the learners;
- concepts of electronic educational resources, skills of using them.

In the process of improving the technological competence of teachers in the field of Internet technologies, it is necessary to take into account all scientific directions, concepts and terms, as well as new trends in the development of education in the use of innovative educational technologies:

- inculcating critical-analytical thinking skills;
- the ability to solve various problems that arise using the acquired fundamental knowledge;
- formation of skills and qualifications for analysis, processing, use of information resources, development of intellectual abilities;
- formation and development of communicative culture, cooperation skills, joint creativity.

The role and significance of directions like search-analytical, information-communication, and information-instrumental in the successful development of future teachers' information-technological competencies are highly evaluated by V.L.Akapev in his scientific research. It is highlighted in this instance that all of the educational activities for aspiring teachers are predicated on the search and evaluation of professional-relevant information. Given the current state of the developing information society, it is imperative to model the outcomes of any information search prior to initiating one. The predictability of this result is more important for search efficiency. The way the information is presented plays a role in the search and analysis process. The information-communication direction covers information-working actions, which represent the communication level of aspiring teachers in a professional setting. This is mass communication, which includes the dissemination of information through various channels (printing, publishing of newspapers and magazines, radio and television broadcasts), open, systematic processes of socially

significant information transfer, and the use of technology in communication processes [1]. Professional pedagogical problems are solved with the aid of information search, analysis, and transmission results. The core of knowledge in information technology is application of the generated data. In order to conduct successful practical activities, educators must develop the habit of utilizing contemporary computer and telecommunication technologies in multimedia and interactive learning environments; in other words, they must possess instrumental information competence.

There will be numerous advantages to educational institutions implementing the information competence complex. The widespread introduction of these technologies into the educational system will help solve many problems faced by public educational institutions in time. Currently, the teaching of subjects using modern information and communication tools is gaining importance. By widely using the possibilities of computer technology, teachers can make effective progress in developing their students' creative abilities. It is important to make a huge contribution to the development of information competence in students at the stages of teacher training.

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