

Formation of Skills for Independent Research and Analysis of Information in Future Teachers as A Pedagogical Problem

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Announcement. *This article describes the results of research on the formation of independent research and analysis of information in higher education students, the direction of the formation of independent thinking of students on the basis of experience and the content and essence of systematic work on its implementation.*

Keywords. *Information retrieval, analysis, independent thinking, individual learning trajectory, creative thinking, practical skills, critical thinking, organization, competence, methodology, technology.*

Introduction

Reforms in the education system of the Republic today are aimed at developing students' independent thinking, based on individual educational trajectories, creative thinking in students, the formation of practical skills. There is a gradual transition to higher education in these areas.

It is known that the share of independent study hours in the higher education system is low, students do not develop independent learning, critical and creative thinking, systematic analysis, entrepreneurial skills, organizational skills in the learning process, the introduction of methods and technologies to strengthen competencies. is a problem and requires a comprehensive study of the subject.

To develop the skills of independent search and analysis of information in future teachers to increase their creative abilities, first of all, to increase the share of independent study hours in the higher education system, to teach students independent learning, critical and creative thinking, systematic analysis, entrepreneurial skills, competencies in the learning process. and the introduction of technology, the orientation of the educational process to the formation of practical skills, the widespread introduction of advanced pedagogical technologies, curricula and teaching materials based on international educational standards in the educational process is one of the main tasks today. In modern conditions, the educational process needs to focus on the development, socialization and development of independent, critical and creative thinking skills. Highly qualified professionals should be trained according to customer requirements, and students should be trained in the knowledge, skills and competencies of their chosen field of study and practice independently.

The main problem of education is the development of students' organizational skills in the process of independent learning. It contributes to cultural development. ” The Resolution of the President of the Republic of Uzbekistan Sh. Mirziyoyev "On measures to further develop the system of higher education" reads: and active involvement of highly qualified teachers and scientists from foreign partner educational institutions in teaching and pedagogical activities, master classes, advanced training courses ... ”, which today meets the requirements of world standards. Once again, we can see the importance of training competitive personnel.

It is well known that the independent work of a student is not included in the classroom hours, so often students and professors and teachers in terms of aside remains. However, independent work, its

planning, organizational forms and methods, results monitoring system is one of the weakest points in higher education practice and one of the least studied problems of pedagogical theory, especially in relation to modern requirements. When we study the state of education (diversification of higher education, introduction of educational standards, introduction of pedagogical monitoring system, etc.), we can see such problems again.

General information about literature sources. Literature review. The research on the planning and organization of independent work of students was carried out by researchers LG Vyatkin, MGGarunov, BPesipov, VAKozakov, I.Ya. Lerner, MIPolovnikova, PIPidkasisty and others in general didactic, psychological, organizational, methodological. out The logical and other aspects of this activity, in particular, reveal many aspects of the problem being studied in the traditional didactic plan. At the same time, special attention is required to the motivational, procedural, and technological support of students 'independent classroom and extracurricular learning activities - as a holistic pedagogical system that takes into account students' individual interests, abilities, and aptitudes.

Pedagogical scientists M. Ochilov, U. Mahkamov, M. Kuronov, F. Yuzlikaev, J. Hasanbaev, MA Choriev , RXDjuraev, O. Tolipov, N. Saidakhmedov, N. Nishonaliev on the formation of professional knowledge and skills in students and scientifically-methodologically analyzed the issue of training qualified personnel.

The concept of independent thinking in the sense of personality quality In the works of OSAnisimov (mental activity), AGAsmolov (depth of thought), K.Khusanbaeva the role of independent thinking in the spirituality of the student is studied. The research work of N.Ochilova, MEJumaev, BRDjuraeva focused on the issues of qualities, thinking and dedication in the formation of pedagogical culture of students , psychologists B.Kadirov, Egoziev, V.Karimova, Z.Nishanova, BRDjuraeva mentioned separately.

Methodology and empirical analysis.

Independent in the educational process in this research work development of thinking, activation of cognitive activity (M. Ochilov, B. Adizov, U. Makhamov, M. Mahkamova, R. Mavlonova, N. Azizkhodjaeva, R. Sh. Ahlidinov, individual The development of independent thinking is general, elementary and in the context of secondary special vocational education, in the process of integration of knowledge in higher education institutions.

Modern socio-cultural life requires, firstly, the ability and vision of the student to be able to see the situation, to be active in the professional environment, to make appropriate decisions, and secondly, the ability to independently search and analyze information from prospective teachers. It requires creative thinking in the study of various disciplines, first of all, the basic general disciplines, as well as the need to be creative in their professional activities.

In pedagogy, the problem of teaching, upbringing, thought formation and development is considered as a reflection of the external world in the organization of educational and practical activities. This process allows an individual to successfully design his or her own plans and community-defined program, depending on the knowledge and skills he or she has acquired in searching for and analyzing information. Of students the search for and analysis of information and the formation of independent thinking require knowledge of the features and laws of thinking studied in pedagogy, philosophy, logic, psychology and a number of other disciplines. Independent thinking in students allows students to explore

the world more deeply and fully without being separated from real life. In this, the idea that students have before thinking is of great importance. Before each innovation, an idea emerges, and then that innovation is considered. Man's mind does not stand still, it encourages science, technology, medicine, agriculture to move forward.

Every problem solved independently, structured problem during the activity of students **and** character is formed in overcoming the difficulties encountered in the process of problem solving, creative abilities are developed.

According to psychologists, the concept of independent thinking is complex and multifaceted. By its very nature, every idea is creative. Every idea is a search and creation of innovation, an independent effort to popularize it.

According to VAKrutesky, the relationship between the concepts of "active thinking", "independent thinking" and "creative thinking" can be expressed in the form of a set of circles. Levels of such thinking vary.

An analysis of the literature has shown that the specificity of the product of independent thinking is characterized by a significant impact on mental development. Some authors believe that different thinking encourages new problems to be solved independently, knowledge to be acquired quickly, and opportunities to be created.

Results.

Higher education is one of the key issues in the process of independent learning, the development of students' ability to independently search, analyze information, creativity and organization. In this regard, we consider it expedient to carry out systematic work in the following areas:

- based on the ongoing reforms in the education system

In order to increase the awareness and activity of students, the teaching process should be organized in such a way as to ensure that students consciously and actively acquire scientific knowledge and methods of their application in practice, to develop creative initiative and independence in thinking, thinking and speaking techniques;

- to promote the work of successful teachers in this field and to develop the exchange of experience with young teachers;
- In today's era of advanced information technology and the digital economy, to establish ways to shape and formalize students' information retrieval and independent learning in accordance with modern requirements;
- to provide opportunities for students to use foreign experience in the development of organizational skills in the process of independent learning;
- to enable students to independently create and perform practical problems, to solve creative problems independently, to understand the functional connection of explicit and implicit processes;
- to create conditions for students to express their independent opinion on the existing problem, to find a solution to the existing problem, and so on.

Conclusion

Based on the above, it can be said that systematic work in the implementation of the process of independent learning in higher education, teaching students to search, analyze and work independently

has the ability to find their place in creative and socially active, socio-political life. , will form the basis for the formation of a new generation of personnel capable of setting and solving future tasks .

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