

IMPROVING STUDENTS' INDEPENDENT COGNITIVE ACTIVITY

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There are encyclopedic opinions of our thinkers regarding the implementation of students' active creative non-standard acquisition of knowledge, methods and means of organizing mental activity, as well as the implementation of the student's technology, passion for work, inclination, interest, emotional desire, and they are expressed as follows.

Scientists pay a lot of attention to the development of mathematical thinking and understand not only the repetition of algorithmic actions, but also the solution of practical tasks in noctandart interpretation of the proposed situation - mathematization, its analysis, creation of a mathematical model, development of solutions with the necessary proofs, generalizations, analogies and conclusions .

Tect assignments cover fundamental mathematical ideas (change and decay, space and form, uncertainty, quantitative reasoning), where spatial intelligence is considered as one of the important components of mathematical intelligence.

60110600- In the qualification requirements of the bachelor's course of mathematics and informatics, the issues related to the improvement of independent cognitive activity of students of higher pedagogical educational institutions in the conditions of educational informatization are mentioned.

In particular, the block of mathematics and natural sciences includes the following:

- providing the foundations of the scientific and theoretical foundations of the in-depth study of fundamental sciences necessary for a specific field of knowledge;
- taking into account the fact that the educational process has a complex nature, the formation of the competence of organizing the introduction of information technologies on the basis of an integrative approach;
- teaching to effectively use the multimedia possibilities of information technologies in order to ensure the scientificity and visuality of teaching;
- formation of skills to achieve individualization, intensification and optimization of training in the design of educational processes in the environment of modern information technologies;



- in order to ensure the effectiveness and efficiency of teaching, to develop the ability to use information and communication technologies in a systematic, logical sequence [16].

Taking into account the above, we can see that the problem of improving the independent cognitive activity of students of higher pedagogical educational institutions in the conditions of informatization of education is a social necessity.

Independent cognitive activity is learning that is acquired outside of educational institutions, it is carried out during work at one's own will. Up to 40% of the educational hours allocated for the improvement of independent knowledge activities in higher and secondary special educational institutions are allocated independent hours.

It is defined as "Independent cognitive activity - acquisition of knowledge in the extracurricular process without the help of a teacher." Expressions such as independent cognitive activity and independent engagement are used. How great thinkers express these phrases: Muhammed al- X opazmi states that it is an independent cognitive activity, a process of reading. Because the teacher directs, the student forms knowledge, ideas and concepts based on independent reading. Through the book, the idea about things and events becomes clearer. He expresses his opinion about the willful qualities that encourage independent assimilation.

The scientific, social, ethical, and educational thoughts in the works created by scholars are also important due to their universality.

Education consists of a system of tasks and problems of a problem nature, which requires the development of logical thinking in mathematics. Each lecture, seminar session, independent assignments, and even laboratory work will be composed of components of problematic situations. Solving (solving, doing) them creates logical thinking. Because the period before the problem situation is a problem situation, and mental processes after the problem situation require logical search and research activities from the student.



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