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Homework an important component in the organization of independent work of students

The main goal of universities is to train highly qualified specialists who meet the requirements of the modern labor market, have fundamental knowledge and the necessary professional skills, are capable of further self-education, implementing the basic concept of higher education - to study throughout life. Teachers of higher education institutions are constantly looking for effective forms of organization of the educational process. The organization of students' independent work has an important role in the educational process. "If our children want to be truly educated people, they should acquire education by independent studies," wrote N.G. Chernyshevsky.

Homework is one of the essential components of the educational process, playing an important role in mastering the material. No matter how carefully the student listens to lectures, no matter how actively involved in practical exercises, without consolidating the knowledge gained, it is impossible to successfully and fully study the program material. The importance of homework is due to the following reasons.

1. A concentrated assimilation of the studied material takes place in the audience, while the acquired knowledge is transferred to short-term memory and quickly forgotten. Because of this, it is inappropriate to write tests and independent work for a final check at the end of the lesson on a topic just covered. Such works can only serve to find out how carefully and thoughtfully the student was engaged. As a rule, most of the group writes these works well, but after a week similar tasks cause great difficulties.
2. Better mastery of the material is possible only with its repeated independent understanding, repetition. Thus, the effect of long-term acquired knowledge is achieved.

3. The ability to independently process information improves critical thinking and is essential for developing students' creative skills.

4. Homework contributes to the rational organization of time, improving self-discipline, self-government. In order for homework to be effective, certain principles must be followed.

Taking into account the individual abilities of each student, tasks should be different in terms of difficulty. Simple (level A), similar to those that were understood in the audience, are needed to develop standard methods. Such tasks are required for each student. The tasks of level B, requiring either a non-standard approach in the solution, or a more in-depth independent study of additional material, will not interest the whole group. This approach corresponds to the level-based teaching technology used by the department of the methodology of teaching mathematics and computer science with the methodological support of teaching mathematical disciplines.

Each student should have the opportunity to discuss "problem" tasks, theoretical material. To this end, teachers of the department regularly consult. In addition, home examples that cause difficulty in solving are sure to understand the next lesson.

Checking homework may not be carried out every day and not for the entire audience. For example, you can check the work of several people, or give individual students one number from homework, or conduct an oral survey on methods for solving problems. The analysis of homework leads to a deeper understanding, thoroughness and strength of assimilation of the material.

An important direction for improving the quality of training of future specialists at the Department of Mathematics and Computer Science Teaching Methods is the effective organization of students' independent work, which includes a competent combination of common and individual homework selected by the level technology, which leads to a personality-oriented orientation of the learning process, developing a culture of mental work among students and responsibility for self-education. At the same time, a necessary condition for the effectiveness of any educational trainees to receive a quality education.

REFERENCES

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