



## Spatial Imagination in the Independent Education of Students

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**Annotation:** Independent work—the quality of the main factor that increases the quality of training teachers of engineering graphic specialists. The norms of control and assessment of how much the student has developed skills and qualifications for independent work are determined based on the nature of the science. Analysis of the time budget allocated for Independent Education showed that uniformity was allowed in this, that is, the specificity of each discipline was not taken into account. It is known that the definition of the ratio of hours of study of the audience and hours allocated to education beyond it is one of the main conditions for improving the educational process.

**Key words:** independent work, engineering, graphics, specialist, teacher, student, control work, educational process.

In the development of our republic, it is important to train qualified specialists who can withstand competition in the conditions of a market economy. The importance of the factor of individual personnel in the development of Zero society is a vital fact that does not require proof. Extensive work has been done and is being done in recent years, both in terms of improving its professional quality and efficiency. In particular, special attention is paid to the content of such qualities as independence, creativity, entrepreneurship, activity of the trained individual personnel. As noted in the national training program, it is required to “...individualize the study of independent learning and develop and master the technology and tools of the distance education system.”

It can be seen that independent education, strengthening the knowledge of independent work on oneself, is required at the level of public policy, since it is an important profession in the training of young specialists. Despite the fact that a number of studies have been carried out in this direction and many recommendations have been developed, a radical change in the situation in this area is not happening.. The reason for this lies in the fact that the implementation of the results of research work in practice did not become public, that is, it did not reach educational institutions as a clear guide and became a teacher's weapon, while on the second hand, Hali is also sufficiently competent of the problems to be dealt with.

And in the faculties of drawing and fine arts, they are considered the main subjects necessary in the training of highly qualified teachers in engineering graphics, drawing geometry and computer graphics to Ooyu, Lyceum, vocational colleges and secondary schools, these subjects themselves are special subjects. On top of that, he also has another pedagogical orientation related to the teaching profession. That is, it is necessary that the future teachers tomorrow teach Ooyu, Lyceum, vocational colleges and secondary schools in exactly these subjects and provide students with high quality graphic literacy. If students perfectly master the technology of independent work on themselves, there are opportunities to transfer this experience and knowledge to the next generation in a more qualitative way, resulting in a qualitative continuity of knowledge acquisition. But today there are a number of problems::



- students have a low level of skills and qualifications in independent work with literature;
- in the course of lectures or practical classes, the skill of drawing the drawing performed by the teacher on the audience board by correctly copying it in his notebook in accordance with it is at a low level;
- the scarcity of literature that meets high requirements, in which the possibility of their choice is taken into account in terms of independent work of students;
- less importance is attached to teaching practical methods of using information technology;
- the non-creation of audio and video materials that students can use in their independent work;
- frequent occurrence of cases when students lose their main purpose of obtaining special;
- the fact that little or no attention is paid to positive motives that stimulate independent work, including the fact that our great ancestors Beruni, Abu Ali Ibn Sino, Mirzo Ulugbek, Alisher Nawab, Umar Hayyom and others, who introduced our people to the world with their great scientific work, have not been used at all, just for the reason of their independent work on these honors.h.

Since these above facts are pressing issues that are an obstacle in the training of quality teaching staff and are waiting for a positive solution of their own, they have led us to research work and form the topic of research as follows:

Independent work-engineering as a key factor in improving the quality of training teachers of graphic specialists.

In the new educational plans developed on the basis of state standards of higher education, special attention is paid to the form of Independent Education of students. An important place in the organization of Independent Education is occupied by the optimal distribution of the student's time budget. Here, the department is responsible for organizational and control work and must coordinate independent work, taking into account the student's time budget. Teachers, on the other hand, are responsible for its consistency and meaningfulness. The norms of control and assessment of how much the student has developed skills and qualifications for independent work are determined based on the nature of the science.

Analysis of the time budget allocated for Independent Education showed that uniformity was allowed in this, that is, the specificity of each discipline was not taken into account. It is known that the definition of the ratio of hours of study of the audience and hours allocated to education beyond it is one of the main conditions for improving the educational process. Until now, the only approach to this issue has not been reached. The core of experts believe that the student's weekly study hours budget should be 54 hours, the ratio of times allocated for Auditorium and beyond Independent Education Sessions should be like 1 : 0.5, depending on the audience sessions being 36 hours, and the Daily time allotted for independent education should not exceed 3 hours.

Analysis of curriculum plans and programs developed in the following years shows that some educational areas were mistakenly replaced by "Independent Education" "independent work" in updated variants of curricula. Already, mutable work is a single form of Independent Education, Independent Education – the capacity of scientific knowledge acquired in the audience is carried out in such processes as reading additional literature, performing course work (projects), solving metric and situational issues.

Independent education is a goal-oriented educational activity of students in the system of higher education, in which in the process of educational activities of students, subjects and literature are recommended for independent study, independent work assignments are given, educational and



methodological manuals are recommended, consultations are organized and the implementation is controlled) and managed.

The main goal of Independent Education is to increase the independence and activity of those who receive education on the basis of the requirements of the final stage of the “national program for training”, to develop their thinking, to strengthen the practical implementation of acquired knowledge. The fact that a modern specialist increases his knowledge and life experiences depends on the degree of formation of personal qualities in him. Independent work is important in the formation of such qualities. The main goal of independent work is to strengthen the knowledge and skills acquired in the training of the audience, master new ones and make up the skills of creative work.

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