

Improving teaching through integration

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ABSTRACT

In this article, students will be able to apply the knowledge and skills acquired in engineering graphics and design in the design, to understand the essence, to realize the educational goals, to draw. And improving teaching through the integration of design skills.

Keywords: *engineering graphics, design, knowledge, skills, creative, individual, fine arts, drawing, subject.*

At the international level, research is being conducted to increase the effectiveness of teaching engineering graphics and design sciences, to develop students' knowledge, skills and abilities, to integrate the content of related disciplines. This, in turn, allows students to apply the knowledge and skills acquired in engineering graphics and design in the design, understanding of the essence, the implementation of educational goals. Improving the content of methodological support in the country, the quality of education. Positive reforms are being carried out to bring it up to world standards. At the same time, there is a need to improve the content of the methodological support of engineering graphics and design sciences, to integrate the existing concepts.

The Strategy of Actions for the Further Development of the Republic of Uzbekistan states that "the curricula and types of curricula of higher education institutions have been revised in accordance with the requirements of the world education improvement" has been identified as a priority. In this regard, it is important to integrate the content and concepts of engineering graphics and design, to develop them on a methodological basis, to improve the formation of students' practical skills. On the basis of the acquired knowledge, students were given tasks based on the improvement of teaching through the integration of the concepts of individual, engineering graphics and design. These two subject assignments are structured on the basis of the curriculum in the field of fine arts and engineering graphics in terms of content and, at the same time, are aimed at shaping the student's creative, creative thinking skills. These individual tasks were completed at the end of each section of the engineering graphics cycle, including drawing. The analysis of improving teaching through the integration of these two disciplines showed that the number of students with adaptive and reproductive knowledge in experimental groups decreased during the academic year, and the number of students with heuristic and creative knowledge increased by 23.3% (Table 1.1)

1.1-table
Engineering graphics and design sciences students on the basis of mutual integration design and creative skills growth dynamics 9,413

Degrees	Experimental group		Control group	
	1-Semester	2-Semester	1-Semester	2-Semester
Adaptive	11/15	5/6,8	10/13,5	8/10,8
Reproduktive	32/43,9	21/28,8	37/50	36/48,6
Heuristic	22/30,1	28/38,4	20/27	19/25,7
Kreative	8/11	19/26	7/9,5	11/14,9
Total	73	73	74	74

As a result of the work aimed at improving teaching by integrating the skills of drawing and design in the cycle of engineering graphics and design, the individual task is to apply the design knowledge and skills in drawing and design, taking into account the requirements of the human world. The effectiveness of creative project work with excellent and good grades based on a number of creative thinking skills, such as acquisition, was shown to be 22.5% higher in the experimental group of students than in the control group (Table 1.2).

The results of the assessment of students creative project work at the end of the academic year 8,106

Group	Number of students	prices			
		5	4	3	2
Expriment	73	16/21,9	39/53,4	16/21,9	2/2,8
Control	74	10/13,6	29/39,2	32/43,2	3/4

The results of research and methodological support can also be used in the process of professional development of professors and teachers of engineering graphics and design sciences in higher education. This task, which aims to improve the teaching of students through the integration of engineering graphics and design, is also being addressed in the teaching of fine arts and drawing in preschools and secondary schools.

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E-ISSN NO:2349-0721