

GOALS AND OBJECTIVES OF PEDAGOGICAL EXPERIMENTAL WORK**Haqberdiyev B.R.**

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ABSTRACT

Conducted experimental work on improving the teaching of students on the basis of mutual integration of engineering graphics and design disciplines in the field of fine arts and engineering graphics of AUL, FarSU, GULSU, Nukus State Pedagogical Institute. A total of 247 students from 8 groups participated in various stages of the experiment.

Keywords: engineering graphics, design sciences, control groups.

INTRODUCTION

The main purpose of the experimental work is to determine the impact of work on improving the teaching of students on the basis of the integration of engineering graphics and design sciences on the effectiveness of education and the quality of professional training of students in the field of fine arts and engineering graphics. The main tasks of the pedagogical experiment include:

1. Identification of experimental and control groups.
2. To determine the impact of the developed recommendations and suggestions on the formation of creative and project activity skills and competencies of students majoring in fine arts and engineering graphics in engineering graphics and design sciences.

MAIN PART

Supervise the process and results of students' design and creative activities in accordance with the curriculum.

Analysis of the quality of creative and project activities of students majoring in fine arts and engineering graphics on the basis of surveys, tests and practical work performed by them.

Experiment – the completion of experimental work and the analysis of its results on the basis of mathematical statistical methods of pedagogical research. The object of the experiment is to determine the educational process of engineering graphics, which consists of a system of lectures and practical classes, the content of which is the formation of skills and competencies of students in design and creative activities. The analysis of the results of practical work allowed to assess the level of formation of relevant operational skills and competencies. The validity of the pedagogical experiment was ensured through the use of the following scientific and pedagogical methods:

natural - pedagogical experiment, which has three stages, namely, diagnostic - prognostic stage (2017-2018), organizational - preparatory, ie formative stage (2018- 2019) and the experimental, i.e. the determinative phase (2020-2021); Visual observation of the process of design and creative activity of students in the field of education in fine arts and engineering graphics and its results;

Analysis of the quality of graphic, creative work performed by students; Conducting a survey among students of the experimental group; Professor - interviews with teachers and students;

Comparative analysis of the quality of student teaching based on the integration of engineering graphics and design based on the tasks performed by the students of the experimental and control groups make In the first diagnostic-prognostic stage of the pedagogical experiment: The content of the formation of engineering-design and creative skills of students majoring in engineering graphics was analyzed comparatively with the activities

of professionals; Pedagogical, psychological, scientific and methodological literature, and electronic resources related to the problem under study were studied;

Local and foreign experience of teaching students in the field of engineering graphics and design was studied and generalized;

The research methodology was clarified; Interviews with students and teachers, monitoring of the learning process were conducted. In addition, at this stage, DTS for engineering graphics and design was analyzed in order to determine what knowledge and skills need to be formed for the integration of the two disciplines.

CONCLUSION

According to the results of the analysis, engineering graphics and design education in higher education The fact that the requirements for the knowledge and skills of students differ from each other, but are an integral part of the graphic science of engineering graphics, thus It was found that in order to implement the large-scale changes taking place in our country through the formation of design skills in students of engineering graphics, more work needs to be done to meet the needs of society in these specialists.

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