

Organization of Experiment-Testing Works for the Introduction of Measuring Equipment into the Educational Process

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ABSTRACT

The essence and tasks of applying modern measurement tools to the educational process, experimental testing, i.e. experiential conduct, are explained.

The main purpose of the experimental work is to check the possibility of increasing the skills and competences of students in the teaching of technology, activating the cognitive process and solving problems related to technology, and raising the quality of knowledge acquisition.

On the basis of the presented information, based on the analysis of psychological-pedagogical and methodological literature, the scientific hypothesis put forward as a result of the experiments carried out during the educational process of the institute and at the school, that is, the application of modern measurement tools used in production to the educational process, increases the interest of students in science and it is proven that it can help to develop independent thinking skills.

The main purpose of the pedagogical experiment is to verify the validity of the scientific hypothesis put forward. The main tasks of the pedagogical experiment are determined and discussed below in the example of the technology of teaching students of technological education:

- to determine the methods of activating the cognitive process of students in the teaching of technology;
- to determine the need to create modern methodological recommendations for activating the students' cognitive process;
- check the effect of technology on students' creative thinking skills by solving problems that activate the cognitive process;

Pedagogical experiments can be planned to be carried out in several stages in institutes and/or schools.

1. The stage of studying problems
2. Search for solutions to problems
3. Stages of conducting the experiment

At the stage of studying experimental problems, the following tasks can be defined:

a) To determine the state of technology teaching in higher education institutions, the current problems of teaching activation, the problems of introducing new information and interactive methods into the educational process;

b) In order to improve the teaching of technology, programs, textbooks and methodological manuals, the state of using modern pedagogical and information technologies in the educational process, methodical support were analyzed, the achievements and existing shortcomings were identified.

v) To determine that the use of technology issues will be more effective;

The tasks of the phase of searching for solutions to the problems of experimental tests are as follows:

a) to determine the didactic requirements for teaching using methods that activate the cognitive process of students in the teaching of technology;

b) search for various organizational forms and teaching methods that activate students' cognitive processes in the teaching of technology;

c) analysis of the results of the practical use of methods that activate the cognitive process of students in the teaching of technology;

Tasks of the experiment stage:

a) to determine the effect of the use of methods that activate the cognitive process of students in the teaching of technology in the course of the lesson to increase students' spatial imagination and logical thinking ability and the indicators of technology mastery;

b) To determine the components, levels, indicators and factors affecting the methodological preparation of technology teachers and future technology teachers-bachelors for pedagogical activity in the higher education system and development of recommendations to improve training.

"The main characteristics that serve to select measuring instruments:

- ✓ type of activity;
- ✓ design and dimensions of the studied product;
- ✓ Normalized maximum measurement error for each measuring instrument.

It is recommended to have and use a universal scale for private and small organizations tools. The use of special automatic and mechanized measuring tools is economically considered and technically viable for large-scale and mass production." [3]

In conclusion, it should be said that the advantages of organizing experimental tests help to increase students' interest in learning, and also help to acquire new information about the subject being studied.

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