USE OF PEDAGOGICAL TECHNOLOGIES IN PREPARING ENGINEERING STUDENTS FOR PROJECT-CONSTRUCTION ACTIVITY

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Annotation. The article describes the use of pedagogical technologies in the preparation of engineering students for design and construction activities, and the requirements for pedagogical technologies.

Keywords. Education, purpose, technical, innovation, progressive, positive, modern, developmental.

Аннотация. В статье рассмотрено использование педагогических технологий при подготовке студентов инженерных специальностей к проектно-строительной деятельности, а также требования, предъявляемые к педагогическим технологиям.

Ключевые слова. Образование, цель, техническое, инновационное, прогрессивное, позитивное, современное, развивающее.

The basis and content of innovative educational processes is innovative activity, the essence of which is to update the pedagogical process and introduce new formations into the traditional system. The introduction of new forms into the educational process led to the emergence and improvement of new pedagogical technologies.

The choice of pedagogical technologies in the preparation of engineering students for design and construction activities depends on a number of factors:

- priority of educational goals;
- specific characteristics of educational content;
- composition of students and their number;

- the level of technical equipment of the educational process, creating a uniform educational environment.

Technology is a complex of techniques used in any work, skill, art.

Pedagogical technology is a set of means and methods of re-creating theoretically based processes of education and upbringing, which enable successful implementation of educational tasks. Pedagogical technology is a set of psychological-pedagogical relations defining a special set of educational forms, methods, tools, educational methods, tools, and is considered an organizational-methodological tool of the pedagogical process.

Any pedagogical technology must meet some basic methodological requirements and technological criteria, for example:

1. Conceptuality. Each pedagogical technology must have a certain scientific concept, which contains philosophical, psychological, didactic and socio-pedagogical foundations for achieving the educational goal.

2. Compliance. Pedagogical technology should have all the characteristics of a system: logicality of the process, interdependence of all its parts, integrity.

3. Manageability. It provides an opportunity to change tools and methods for planning, designing, step-by-step diagnostics, correcting the results of the educational process.

4. Efficiency. Modern pedagogical technologies exist in competitive conditions and must be effective in terms of results and optimal in terms of costs, guaranteeing the achievement of a certain educational standard.

5. Reproducibility. Pedagogical technology is an opportunity to be used in other educational institutions, by other disciplines.

6. Demonstration. It involves the use of audiovisual and electronic technologies, as well as the design and use of various didactic materials and original visual aids.

Thus, the importance of using pedagogical technologies in the preparation of engineering students for design and construction activities is to ensure the quality of training of specialists at the level of international standards. Solving this task is

carried out by changing pedagogical methods and introducing innovative teaching technologies.

The use of pedagogical technologies in the preparation of engineering students for design and construction activities requires the implementation of technological processes. Important technological processes - stamping, hammering, pressing, application of stainless paint on details, etc. Appropriate equipment and tools are used to carry out these processes in practice. The use of educational workshops and production workshops, plots and laboratories of industrial enterprises, holding classes in the order of a guided tour will have a good effect.

In training workshops, students learn to classify the details according to certain characteristics - structural forms, similarity of the surface of the details, their working order, etc., distinguish typical samples from them, and learn the technological processes of processing them. These should be expressed in a way that is understandable for students, because students will encounter these processes in practical activities in educational workshops. They also use various straighteners, stops, conductors, templates, straighteners, punching and bending equipment, clamps, stretchers, stamps, welding equipment, etc. This implies the use of certain details and manufacturing technology. Such work process creates spiritual satisfaction in students and stimulates their activity, cultivates a creative attitude to cocktails.

The use of pedagogical technologies in the preparation of engineering students for design and construction activities includes the use of problem tasks for the development of students' technical thinking, special tasks that involve changing the constructions of details, accessories, technical models, completing unfinished constructions of technical models and subjects, and improving technological processes.

The importance of such assignments is that they allow students to demonstrate creative independence and technical understanding, as well as a careful and critical attitude to techniques, technology and self-developed constructive solutions.

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