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INFORMATION TECHNOLOGY IN GRAPHIC TRAINING OF ENGINEERING AND TECHNICAL SPECIALISTS

The modern state of higher technical education is quite controversial. On the one hand, the fast development of technologies such as information and telecommunication, whose impact on all aspects of social life is increasingly growing, opens the prospect of improving higher technical education, exchange of scientific and educational information, and on the other, there is a shortage of qualified engineers and technical workers which are connected with modern information technology and functioning the market system. Graduate student of higher technical educational establishment should have a fundamental general scientific and special training, to master the speciality, constantly update and enrich the knowledge, to be able at practice to use principles of scientific organization of labor, to use the latest methods of management. The engineering graphics training is one of the components of general engineering and constructor training which combines technical knowledge in the form of drawings and which should be carried out organic connection with science and practice.

There have been developed a great number of software products and technologies of manufacturing, engineering supplies, which became compulsory object in the professional training in higher technical educational establishments. Directly related to graphic training have systems of automatized projecting with the help of which is realized the automatization of productive processes and which are used for modernization, improving of general and graphic and culture, quality and productivity of design activity. The necessity of special training of future specialist is caused by cognitive mechanism of taking a decision.

The modern education must create conditions for forming of free personality, for developing thinking, communication, and professional activity. Science throughout its development seeks to understand the existence of the system of education and to form values orientations, because any activity is regulated not only objectives but also values. New social needs connected not only with providing of high professional qualifications and competence of graduates of higher technical educational establishments, but also with educating at them professionally important qualities of future specialist: a sense of responsibility, initiative and capture labor, technical and information culture, originality of thought, the ability to generate ideas and realize new, abilities of creative self-development. The person who has the personal qualities will always be able to adapt to the information-technology society and be competitive in labour market.