

DEVELOPMENT OF TEACHING METHODS IN THE FIELD OF "ELECTRICAL MACHINES" USING NEW PEDAGOGICAL TECHNOLOGIES

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ANNOTATION

A modular technology for teaching the subject "Electric machines" "Adjusting the speed of electric driving" was developed using new innovative, information and pedagogical technologies. In the future, this innovation will serve as a stepping stone for the younger generation to find its place in the labor market. Saving energy is our ultimate goal to get better results.

Keywords: *innovation, axiom, space, normative, current, objective, subjective, reform.*

Relevance of the topic and its justification: One of our priorities is the introduction of modern equipment, technology, information exchange system of education and the educational process. Our main goal is to bring the educational process in line with world standards, to fill our national market (labor) with qualified personnel. The Decree "On Strategy of Action" also sets tasks to "further improve the system of continuing education, increase access to quality educational services, continue the policy of training highly qualified personnel in line with modern needs of the labor market." A number of measures are being taken to implement this task, including the technical and technological modernization of the material and technical base of higher education institutions, as well as improving the quality of the educational process in the country.

The training of specialists depends to a large extent on general education teachers and pedagogical engineers. In the process of industrial education, a system of professional skills and competencies is created, and students gain the necessary production experience and professional skills. Therefore, every educator must be a master in his field, a skilled educator, passionate and dedicated. To achieve this, general education teachers and engineers-educators need to be able to properly plan the content of the production process and their work, to use pedagogical technologies in the educational process, to know information technology and to use modern technical means in the classroom. In view of the above, it is now important to teach students to think critically through the use of interactive methods in the teaching of a particular subject. The policy documents of the reform of the education system of the Republic set a goal to ensure the level of advanced training of competitive personnel. The new generation of young people must have a high culture of thinking and the ability to find an independent path in political and social life. The strength of our state and its future depend on young people with rich spiritual potential.

Article 7 of the Law of the Republic of Uzbekistan "On Education" establishes a state educational standard (SES), which is mandatory for all types of educational institutions in the country in accordance with the National Training Program. The SES defines the requirements for the quality of training, the content of education, the necessary and adequate level of training of students and the qualification requirements for graduates of educational institutions, the procedure and mechanism for evaluating the activities of educational institutions and the quality of training.

Existing literature (textbooks and manuals), electronic textbooks, guidelines and video information technology are used to teach the subject of "Electrical Machines". In recent years, new literature published abroad and published in the Republic will be available to teach this subject. For example: Ibragimov U. Electric

machines. Textbook - T.: Teacher, 2001. Majidov S. Electric machines and electric drives. Study guide. - T. Teacher, "Ziyo-Noshir" KSHK, 2002. 408 p. O. Hoshimov and S. Saidakhmedov Basics of electric drive: a textbook for university students. T.Aloqachi, 2010. Pirmatov N.B. Mustafakulova G.N., Mahmadiyev G.M. "Design of asynchronous motors" from the course "Electric machines". Textbook. T. TashDSTU, 2013. 95 p. Roziyev DI, Usmonboyeva MH, Kholikova Z. The essence and application of interactive methods. Methodical manual. The manual provides interactive teaching methods. The effectiveness of these interactive teaching methods in the learning process is illustrated by a detailed example.

In teaching the subject of "Electrical Machines" it is necessary to develop recommendations for theoretical and practical training, which will help students to develop their knowledge and skills about modern scientific and technical achievements, with less time and effort. Over the next 10 years, structurally modified electric machines include linear motors, multi-stage machines, liquid and gas rotors, and more. An engineer-electromechanic must be able to create electric machines that convert any energy into electromechanics. Therefore, the general principles should be taught not only in special courses, but also in the course of electric machines.

The electrical engineering industry must be able to supply electricity to electrical machinery and other sectors of the economy. In order to transmit, distribute and use electricity, it is necessary to install 5-6 transformers or electric motors for each installed capacity. Before the October Revolution, there were only a few small factories in Russia. Today, there are more than 500 large plants and scientific production associations in this field. Energopetch Plant (Leningrad), Vladimir Ilyich Plant (Moscow), Kirov Dynamo Plant (Moscow), Zaporozhye Transformer Plant (Zapazozh city), Ural Electric Heavy Power Plant (Sverdlovsk), Electric Heavy Energy Plant and other plant associations. It is advisable to use new pedagogical innovative technologies to convey information about the countries of the world in a clear and concise manner.

In conclusion, in the process of delivering each subject to students, if we use ICT, devices, pedagogical methods and techniques wisely, in the future our trained specialists will become competitive personnel for our market economy. It is expedient to teach all sciences together, not an electric car, on this arduous and long path of science.

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