

Code and title of specialty (direction): 141 «Electrical Energetics, Electrical Engineering and Electromechanics».

Title of specialization: «Electromechanical automation systems and electrical drive».

Code and title of the field of knowledge: 14 «Electrical Engineering».

Qualification: Master on speciality «Electrical Energetics, Electrical Engineering and Electromechanics» with the specialization «Electromechanical automation systems and electrical drive».

Number of credits: 90 ECTS credits.

Grade of higher education: The second (master's) corresponds to the eighth qualification degree of the Ukrainian National Qualifications Frame.

Requirements to the previous education grade: A person has a right to get a Master degree under the condition of a Bachelor degree. If the previous degree was received in another country, a nostrification is required.

Qualification requirements: Higher education document is given to a person who completed the program successfully and was certified. Graduation certification is done by evaluating competence formation level. The form of certification is qualification paper defense.

Program study results: to use conceptual knowledge, including knowledge of modern achievements for solving complex unforeseen problems of the industry; to use theory, principles, methods and concepts of general engineering sciences in education and professional activity; to collect and interpret information and choose methods and tools to solve professional problems; to apply innovative approaches to solve professional problems; to inform specialists and non-specialists of information, ideas, problems, solutions and own experience in the field of professional activity; to manage complex actions or projects; to form a communication strategy; to use a foreign language for professional purposes; to be responsible for professional development of individuals and / or groups; to be responsible for decision-making under unpredictable conditions; to study with a high level of autonomy.

Technological professional activities: the ability to provide effective operation of electromechanical systems, commissioning, operational maintenance, preventive tests and repairs, monitoring the technical condition of equipment, power plants, in accordance with the technological regulations. develop technical specifications for the design of technological processes of production of electrical and electromechanical systems, design technological processes for the production of electrical and electromechanical systems using automated systems for technological preparation of production, evaluate the economic efficiency of technological processes, to carry out the author's support of the developed systems at the stages of design and production.

Organizational professional activities: the ability to provide operational management and control over the work of the personnel of the unit, to participate in its motivation and incentives for the purpose of further training, refresher training and retraining, the ability and readiness to develop a system of measures to ensure an adequate level of production, taking into account advanced national and border experience, in accordance with norms of safety of vital activity, ergonomics and modern production technologies, to conduct technical documentation (schedules of work, instructions, estimates, plan, application materials and equipment).

Research activities: the ability and readiness to identify the state and possibilities of improvement of the processes of modeling, design, production and operation of electromechanical systems, provide systematization, generalization and analysis of information of control and measuring instruments and equipment, the ability to develop effective algorithms for solving the problems formulated using modern programming languages and to provide their program realization.

Employment competences: Master on speciality «Electrical Energetics. Electrical Engineering and Electromechanics» can work engineer-researcher (electrical engineering), researcher (electrical engineering), engineer for adjustment, improvement of technology and operation of electrical equipment and electric drives of industrial enterprises, engineer-designer (electrical engineering), researcher (engineering), consultant in a particular field of engineering, a teacher of a higher

educational institution, a teacher of a vocational school, a teacher of a vocational and educational institution.

Further study perspective: Master on speciality «Electrical Energetics. Electrical Engineering and Electromechanics» with the specialization «Electromechanical automation systems and electrical drive» may continue studying in postgraduate doctoral studies program in Field 14 «Electrical Engineering».

Department graduating a student with degree: Department of Electrical Engineering.

Institute/faculty: Faculty of Engineering.

Educational program supervisor: Associate Professor, Ph. D. in Technology, Morozov D. I., dimorozov3@gmail.com, phone +380958491173