

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

**Title of specialization:** «Electric Power Systems».

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

**Qualification:** Master on speciality «Electrical Energetics. Electrical Engineering and Electricmechanics» with the specialization «Electric Power Systems».

**Number of credits:** 120 ECTS credits.

**Grade of higher education:** The second (Master) one corresponds to the seventh 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 and unpredictable tasks and problems; 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 tasks; to apply innovative approaches to solve professional tasks; to inform specialists and non-specialists of information, ideas, problems and solutions and personal 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 the professional development of individuals and / or groups; to be in charge of decision-making under unpredictable conditions; to study with a high level of autonomy.

**Technological professional activities:** to design components of electrical equipment and electric and power supply systems; to introduce new materials and innovative technologies in the field of professional activity; to calculate and adjust modes of electrical equipment and electric and power supply systems for different operating conditions; to put into practice methods of diagnostics of efficiency level for electrical equipment and electric and power supply systems; to ensure the safety of components for electrical equipment and electric and power supply systems in accordance with the operating rules; to restore the quality properties of systems and technologies.

**Organizational professional activities:** to perform technical maintenance of the stages of master's in electrical energetic, electrical engineering and electricmechanics activities; to provide legal and technical operation of electrical equipment and electric and power supply systems; to organize the use of electrical equipment and electric and

power supply systems; to control the use of electrical equipment and electric and power supply systems.

Management professional activities: to plan components of technological and organizational activities; to monitor components of technological and organizational activities; to improve components of technological and organizational activities.

**Employment competences:** Master on speciality «Electrical Energetics. Electrical Engineering and Electricmechanics» can take jobs in the public and private sectors in various activities, including: production, repair, maintenance and adjustment of electrical equipment; design of electric power and power supply systems; application of modern energy efficient technologies; creation of computer control systems of technological processes; design and adjustment of automation and electromechanotronics.

**Further study perspective:** Master on speciality «Electrical Energetics. Electrical Engineering and Electricmechanics» with the specialization «Electric Power Systems» 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, Filimonenko K. V., kostiantyn.kun@gmail.com, +38 (050) 478 3405.