7M07152 Electrical power engineering

**PASSPORT of the EP**

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| Nameofthe EP | 7M07152 Electrical power engineering |
| Code and Classification of Education | 7M07 Engineering, Manufacturing and Civil engineering |
| Code and Classification of Areas of Training | 7M071 Engineering and Engineering Trades |
| Group of educational programs (EP) | М099 Energy and Electrical Engineering |
| Languagelearning | Kazakh, Russian |
| The complexity of EP | 60 credits |
| Distinctivefeaturesof EP | - |
| PartnerUniversity (JEP) - | - |
| Purpose of the EP | Providing comprehensive and high-quality training of qualified, competitive specialists in the field of electric power industry, based on a combination of modern educational technologies, knowledge, accumulated experience, corporate intelligence and moral potential |
| Name of the degree awarded | Master of engineering and technology |
| Fieldofprofessionalactivity | - design and engineering;  – production and technological;  – organizational and managerial;  - service and operational. |
| |  | | --- | | Providing comprehensive and high-quality training of qualified, competitive specialists in the field of electric power industry, based on a combination of modern educational technologies, knowledge, accumulated experience, corporate intelligence and moral potential | | **LO1**The ability to be a mobile and flexible intermediary between languages and cultures, in interpersonal communication, for obtaining professional information from scientific sources.  **LO**2 Demonstrate modern knowledge in the field of effective energy and resource conservation for practical use in energy facilities on the basis of current regulatory legal acts of the Republic of Kazakhstan.  **LO3** Apply mathematical modeling methods, conduct experimental studies and analyze their results, solve problems related to the development of innovative methods that increase the efficiency of operation and design of systems and facilities of the electric power industry.  **LO4** Integrate knowledge, cope with difficulties and make judgments based on incomplete or limited information, taking into account ethical and social responsibility for the application of these judgments and knowledge.  **LO5** To use research, entrepreneurial skills and skills of working in conditions of uncertainty, to systematize methods of scientific research in the processes of generation, transmission and distribution of electric energy to solve them in specific situations, to be able to assess the technical and economic efficiency of decisions made.  **LO6** Possess high motivation to perform professional activities; possess technologies of independent learning and self-education, the ability to improve and develop their intellectual, general cultural and professional level  **LO7** Demonstrate knowledge of the principles of functioning of intelligent energy systems and renewable energy complexes, advanced trends in the development of power supply systems based on digital and information technologies  **LO8** Demonstrate logical and analytical thinking skills when solving tasks and documenting them correctly |