6B07151 Electric Power Supply

**PASSPORT of the EP**

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| Name of  the EP | **6В07151 - Electric Power Supply** |
| Code and Classification of Education | 6В07   Engineering, manufacturing and civil engineering |
| Code and Classification of Areas of Training | 6В071  Engineering and engineering trades |
| Group of educational programs (EP) | В062  Electrical engineering and energy |
| Language learning | Kazakh, Russian, English |
| The complexity of EP | 240 credits |
| Distinctive features of  EP | - |
| Partner University (JEP) - | - |
| Purpose of the EP  | Preparation of highly qualified, competitive in the labor market specialists in the field of power supply, capable of self-development and the implementation of core activities according to the qualifications of a bachelor of engineering and technology |
| Name of the degree awarded | «Bachelor of Engineering and Technology» |
| Field of professional activity | The scope of professional activity is the field of science and technology, which includes a set of technologies, tools, methods and methods of human activity aimed at creating conditions for the conversion of electrical energy and process control |
| Learnin gout comes | **LO1**Demonstrate the ability to communicate freely in the professional environment and society in the state, Russian and English languages with an understanding of the principles of the culture of academic integrity;**LO2**Demonstrate natural science, mathematical, social, socio-economic and engineering knowledge in professional activities, based on methods of mathematical data processing, scientific and experimental research, normative documents and elements of economic analysis;**LO3**Apply information and computational literacy to analyze information, set goals and choose ways to achieve it;**LO4**Obtain and analyze the necessary calculation data based on innovations in electroenergetics technologies and current trends in the development of digital relay protection and automation and automated control systems to optimize the operating modes of the electric power supply system; **LO5**Describe the processes of production, conversion and transmission of electrical energy, demonstrating an understanding of the flow of electromagnetic processes, electrotechnical properties of materials, performance properties of electrical equipment, modern electric power supply schemes, systems of organizational and technical measures and means of protection;**LО6** Create theoretical models for analyzing the state and predicting the properties and behavior of electric power supply facilities based on the developed methods of installation, adjustment, operation and testing of the electrical part of the equipment;**LО7** Perform diagnostic and repair measures of the electrical part of the equipment according to techniques, methods and modern measuring instruments, information technologies and labor protection in electric power supply systems;**LО8** Solve electrotechnical problems to increase the efficiency of energy resources use, justifying technical, economic, environmental criteria for evaluating electrotechnical complexes and systems;**LО9** Use research, entrepreneurial skills and skills of working in non-standard conditions;**LO10**Demonstrate the skills of creative thinking, healthy lifestyle, the ability to self-educate, work effectively individually and as a team member, correctly defend their point of view, adjust their actions and use various methods. |