Operation of electrical systems

The discipline "Operation of electrical systems" aims to acquire knowledge in the field of theory and technology of operation of electrical equipment in order to solve the problem of improving the efficiency of electrical networks and systems.

The task of studying the discipline "Operation of electrical systems" is a deep mastery of the theory, regulations and technology of the latest methods of reliable and safe operation of devices for transmission, conversion and distribution of electricity in electrical networks and power systems.

The technological direction of the discipline "Operation of electrical systems" is to give future professionals an initial orientation in the wide range of issues that need to be addressed during the operation of electrical equipment and systems.

The practical direction of the credit module NP-08 of the discipline "Operation of electrical systems" is to help students acquire practical skills in the application of the latest technologies that ensure reliable and safe operation of electrical systems.

Energy efficient technologies and electricity markets

The main task of the course "Energy efficient technologies and electricity markets" is to form in students a system of knowledge about the priority areas of energy saving and the main energy saving processes and technologies used in various sectors of the economy.

The task of studying this course is to provide students with:

• knowledge of world and national indicators, programs and measures for the efficient use of energy resources; priority areas of energy saving in various sectors of the economy; organization and management of energy saving in production through the introduction of energy management; basic energy-saving processes, technologies and devices used in industry; environmental aspects of energy saving;

• ability to assess the basic parameters and characteristics of fuel and energy resources; to carry out energy analysis of technological processes and devices, to evaluate their functional and economic efficiency; organize control and accounting of energy use; evaluate the effectiveness of energy saving measures based on cost analysis; reasonably promote ideas.