



# 7M07109 - “Electric power Industry”



## Be able to:

- plan and organize scientific research;
- to use the knowledge of fundamental sciences to solve specific research, information retrieval, and methodological tasks;
- determine the composition of electrical equipment and its parameters, schemes of electric power facilities;
- to develop plans, programs and methods for testing technological systems and electrical equipment; the use of computer technology to process the results of experimental and theoretical research;
- to develop energy-efficient electrotechnological equipment, installations and complexes;
- organize monitoring in electric power systems, analyze their results, develop measures to improve the efficiency of equipment and systems; management, the ability to develop effective scientific and engineering measures to solve problems in electric power systems.



## To know and understand:

- modern directions of scientific research activities in the field of scientific experiment organization and process modeling in energy devices and systems
- -the basic principles of energy saving in an electric drive, the ability to justify the parameters of an energy-saving drive and control system, the ability to develop modern control systems for technological equipment
- -methods of analyzing indicators of the quality of agricultural energy supply and the ability to substantiate energy supply systems for agricultural consumers using local energy resources;



## Be competent in matters of:

- in the field of methodology of scientific research in the field of electric power engineering;
- in matters of innovative technical and technological productions in all industries, including agriculture;
- in the field of scientific and scientific-pedagogical activity in educational organizations;
- in the implementation of scientific projects and research in the professional field.