7M07108 – “Thermal power engineering”

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 thermal equipment and its parameters, schemes of thermal power facilities;
- to develop plans, programs and methods for testing technological systems and heating 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 thermal power systems, analyze their results, develop measures to improve the efficiency of equipment and control systems, the ability to develop effective scientific and engineering measures to solve problems in thermal power systems.

To know and understand:

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

Be competent in matters of:

-in the field of methodology of scientific research in the field of thermal 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.