MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE

NATIONAL TECHNICAL UNIVERSITY "KHARKIV POLYTECHNIC INSTITUTE"

Pulpit	Electric stations
Speciality	141 "Electric power engineering, electrical
	engineering and electromechanics"
Educational program	Electricity 141-01 "Electric stations"
Form of study	Part-time
Academic discipline	Energy Storage Systems and Maneuvering at the
	Power Grid
Semester	9

LIST OF QUESTIONS AND TASKS INCLUDED IN EXAM TICKETS IN THE DISCIPLINE

Number of tickets_____

Approved at the meeting of the Department minutes No. 20

Zav. Department

Oleksandr LAZURENKO

Examiner

_____ Andriy IIVAKHNOV

• The concept of balance in the electric power system, to give all components.

• The concept of maneuvering in the electric power system, to give maneuvering characteristics of different types of power plants.

• Shunting capabilities of TPP and NPP, to give similar and distinctive features.

• The shunting capabilities of the hydroelectric power complex and the GTU bring similar and distinctive features.

- Features of GTU.
- Types of storage technologies.
- Mechanical drives of electricity.
- Electrochemical power storages.
- Electromagnetic power drives.
- Principles of hybrid combination of electricity storages.
- The use of electricity storages in the power system.
- Causes of balance violation in the electricity system.