

ADJUSTMENT AND DIAGNOSTICS OF ELECTRIC DRIVE

COURSE SYLLABUS ABSTRACT

Speciality 6-05-0713-04 «Automatization of technical processes and production»

Concentration «Automated electric drives»

	STUDY MODE		
	full-time	part-time	part-time (shortened program)
Course	3	4	3
Semester	6	7	5
Lectures, hours	34	8	8
Laboratory studies, hours	34	8	8
Test, semester	6	7	5
Class hours in the academic discipline	68	16	16
Independent work, hours	40	92	92
Total hours in academic discipline / credits	108/3		

1. Course outline

The purpose of the discipline "Adjustment and diagnostics of electric drive" is to teach students how to set up modern automated electric drives, design and operate their diagnostic systems.

2. Course learning outcomes

Upon completion of the course, students will be expected to

know:

- principles of building systems for diagnosing electric drives;
- methods and features of setting up automated electric drives;

be able to:

- choose a rational method and determine the main indicators for the diagnosis and adjustment of the main elements of the electric drive;

to possess a skill:

- skills in designing a system for diagnosing an electric drive and compiling a methodology for setting up and operating electric drives.

3. Competencies

Learning this academic discipline should ensure the formation of the following competencies:

Names of formed competencies
Know modern complete electric drive systems, be able to select them for typical industrial mechanisms, know the methods of setting up and diagnosing automated electric drive systems and be able to apply them in practice

4. Requirements and forms of midcourse evaluation and summative assessment

Midterm assessment is carried out in form of test. Final grade is determined in accordance with table.