DRIVE COORDINATE MEASUREMENTS

COURSE SYLLABUS ABSTRACT

1-53 01 05 Automated electric drives

	STUDY MODE		
	full-time	part-time	part-time (shortened program)
Year	3	3	3
Semester	5	5	5
Lectures, hours	34	8	8
Laboratory classes, hours	34	8	8
In-class test (semester, hours)	–	–	5,2
Exam, semester	5	5	5
Contact hours	68	16	18
Independent study, hours	40	142	90
Total course duration in hours / credit units	108/3 з.е.		

1. Course outline

The study by students of the main coordinates of an automated electric drive, their types and varieties, technical means, as well as methods for measuring these coordinates.

2. Course learning outcomes

Upon completion of the course, students will be expected to

know:

- the basics of metrology;
- the types and varieties of technical means for measuring the coordinates of the electric drive;
- the main methods of direct and indirect measurement of the coordinates of an automated electric drive;

be able to:

- use modern technical measuring instruments;
- determine static measurement errors and their components;

possess:

- the methods for determining static errors;
- the main methods of direct and indirect measurement of the coordinates of an automated electric drive.

3. Competencies

SC-4. To know the basics of standardizing the accuracy and quality of measuring the coordinates of the electric drive, modern instruments for electrical measurements, be able to use the appropriate measuring tools and devices.

4. Requirements and forms of midcourse evaluation and summative assessment

To assess the quality of assimilation of educational material by students, including acquired competencies, current certification is carried out in the form of an exam in the academic discipline.

Intermediate control of progress is aimed at ensuring maximum efficiency of the educational process, increasing motivation for learning; provides for the evaluation of the performance and protection of laboratory work.