

ELECTRIC DRIVE COORDINATE MEASUREMENT
(course title)

COURSE SYLLABUS ABSTRACT

Specialty 6-05-0713-04 «Automation of technological processes and production»
Profiling «Automatic electric drives»

	STUDY MODE		
	full-time	part-time	part-time (shortened program)
Year	3	4	3
Semester	5	8	6
Lectures, hours	34	8	8
Laboratory classes, hours	34	8	8
Exam, semester	5	8	6
Contact hours	68	16	16
Independent study, hours	40	92	92
Total course duration in hours / credit units	108/3		

1. Course outline

The purpose of the discipline is to study students the main coordinates of the 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:

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

be able to:

- be able to use modern technical measuring instruments;
- determine static errors of measurements and their components.

to possess a skill:

- be proficient in the methods of determining static errors;
- mastering the main methods of direct and indirect measurement of coordinates of the automated electric drive.

3. Competencies

- know the main types of sensors and their connection diagrams to the control system, be able to calculate and select the technical means of the information and measuring subsystem of the industrial electric drive;

4. Requirements and forms of midcourse evaluation and summative assessment

Intermediate certification is an oral exam using personal computers to complete an individual task.

Current certification - passing testing with an assessment of the acquired practical skills in developing design documents.