

ELECTROMECHANICAL SYSTEMS OF MACHINES

(course title)

COURSE SYLLABUS ABSTRACT

7-06-0716-03 Instrumentation

(speciality code and name)

	STUDY MODE	
	full-time	part-time
Year	1	2
Semester	2	3
Lectures, hours	24	6
Practical classes, hours	16	4
Exam, semester	2	3
Contact hours	40	10
Independent study, hours	68	98
Total course duration in hours / credit units	108 / 3	

1. Course outline

The purpose of studying the discipline is to form a knowledge system for the design, installation and operation of electromechanical systems of machine tools.

2. Course learning outcomes

Upon completion of the course, students will be expected to

- know: methods for designing electromechanical systems of machine tools; principles of operation, technical characteristics and indicators of domestic and foreign electromechanical systems of machine tools; advanced domestic and foreign experience in the design of electromechanical systems of machine tools;

- be able to: carry out technical calculations for the design of electromechanical systems of machine tools; explore the characteristics of electromechanical systems of machine tools; analyze and explain the properties and characteristics of electromechanical systems of machine tools;

- have the skill to: carry out calculations of electromechanical systems of machine tools; use knowledge about electromechanical systems of machine tools in professional activities.

3. Competencies

Master the methodology for calculating the required characteristics of an electric drive, be able to select technical means and develop an electric drive control circuit.

4. Requirements and forms of midcourse evaluation and summative assessment

Intermediate control of progress provides an assessment of the performance of practical work. The form of current certification is an exam.