

RESEARCH (PRE-GRADUATION) INTERNSHIP

INTERNSHIP COURSE SYLLABUS ABSTRACT

7-06-0716-03 Instrument engineering
(speciality code and name)

Monitoring and control in electromechanical systems
(concentration)

Advanced higher education

	STUDY MODE	
	full-time	part-time
Year	1	2
Semester	2	3
Total course duration in hours / credit units	162 / 5	

1. Internship course outline (aims and objectives)

The purpose of the internship is for undergraduates to gain experience in conducting scientific research, solving current scientific and technical problems, consolidating the knowledge and skills acquired during theoretical training in the master's program, and solving social and professional problems.

2. Course learning outcomes

Upon completion of the course, students will be expected to know:

- modern complete electric drive systems,
- methods of adjustment and diagnostics of automated electric drive systems;

be able to:

- select research topics, determine goals and objectives of the study;
- analyze electromechanical systems of electric vehicles, evaluate the performance and reliability of equipment,
- select complete electric drive systems for standard industrial mechanisms;

to possess skills:

- researching current scientific problems, solving social and professional problems, applying innovative technologies and conducting scientific research;
- presentation of the results of the work performed on the research topic.

3. Competencies

To know modern complete electric drive systems, be able to select them for standard industrial mechanisms, know the techniques for setting up and diagnosing automated electric drive systems and be able to apply them in practice.

4. Form of midcourse evaluation.

Differentiated test.