THEORY AND METHODS OF AUTOMATIC CONTROL

(course title)

ANNOTATION

TO THE CURRICULUM OF THE DISCIPLINE

Specialty 6-05-0612-03 "Information Management Systems"

	The form of higher education		
	Full-time (full-time)	Correspondence*	Correspondence shortened*
Course	4	4	3
Semester	7	8	6
Lectures, hours	32	6	8
Lab exercises, hours	16	4	4
In-class examination, semester, (hours)	-	8 (2 ч)	6 (2 ч)
Exam, semester	7	8	6
Classroom hours in the academic discipline	48	12	14
Individual work, hours	60	96	94
Total hours in the discipline / credits	108/3,0		

1. Summary of the content of the discipline

Students acquire theoretical knowledge and practical skills in the field of mathematical models used to describe and analyze the functioning of control systems.

2. Learning outcomes

As a result **o**f the study of the discipline the student should:

know: ways of describing linear and nonlinear control systems; the concept of stability and criteria for the stability of linear control systems; quality indicators of control systems;

be able to: develop and analyze models of control problems, choose and apply methods of their solution; perform stability analysis of control systems; calculate quality indicators of control systems;

to possess a skill: basic methods of working with mathematical management models and be able to apply them in professional activity; skills of mathematical modeling of management systems with the help of computer programs.

3. Competencies to be formed

Mastering this discipline should ensure the formation of the following competencies: Calculate the dynamic and static characteristics of technical systems of various physical nature.

4. Requirements and forms of current and intermediate attestation

Defence of laboratory works - current attestation, the exam - intermediate attestation, oral and written.