

# "NON-CLASSICAL LOGICS"

(name of the discipline)

## OUTLINE

### TO THE CURRICULUM OF THE INSTITUTION OF HIGHER EDUCATION

specialty 7-06-0612-03 system information management

	Form of higher education	
	Full-time	Correspondence
<b>Course</b>	<b>1</b>	<b>1</b>
<b>Semester</b>	<b>2</b>	<b>2</b>
<b>Lectures, hours</b>	<b>24</b>	<b>6</b>
<b>Laboratory, hours</b>	<b>24</b>	<b>6</b>
<b>Exam, semester</b>	<b>2</b>	<b>2</b>
<b>Classroom hours in the educational discipline</b>	<b>48</b>	<b>12</b>
<b>Self-work, hours</b>	<b>60</b>	<b>96</b>
<b>Total hours of the discipline / credit units</b>	<b>108/3,0</b>	

#### 1 Summary of the content of the discipline

Deep knowledge in the field of formal logic, in particular the systems of non-classical logic (fuzzy logic, modal logic, temporal logic, etc.) in application to the problem of knowledge representation; acquisition of modern tools of formalization of reasoning and automatic building of conclusion.

#### 2 Learning objectives

As a result of studying the discipline, the student should

##### know:

- basic facts about the calculus of non-classical logics;
- Semantics of non-classical logics;
- algorithms of common sense checking;

##### be able to:

- construct formal inference in a given calculus;
- verify the truth of formulas in models;
- use the language of non-classical logics to formalize a given set of facts and rules;

##### have the skill:

- skills in working with modern systems of automated inference construction in calculus of non-classical logics.

#### 3. Competencies to be formed

UPK-4 Apply the skills of formulation and solution of optimal control problems.

#### 4 Requirements and forms of current and intermediate attestation.

Current - CR, intermediate - exam.