

# "MULTI-AGENT SYSTEMS"

(name of discipline)

## ANNOTATION

TO THE CURRICULUM OF HIGHER EDUCATION INSTITUTION

Specialty 7-06-0612-03 Information Management Systems

	Form of higher education
	Full-time (full-time)
<b>Course</b>	<b>2</b>
<b>Semester</b>	<b>3</b>
<b>Lectures, hours</b>	<b>34</b>
<b>Laboratory classes, hours</b>	<b>34</b>
<b>Exam, semester</b>	<b>3</b>
<b>Auditorium hours for the academic discipline</b>	<b>68</b>
<b>Independent work, hours</b>	<b>130</b>
<b>Total hours on the academic discipline /credits</b>	<b>198/6</b>

### 1. Brief content of the academic discipline

Study of methods, models, tools and technologies of computerized information processing and automated control based on the theory of artificial agents and multi-agent systems, obtaining basic knowledge in the field of design and programming of multi-agent systems.

### 2 Learning objectives

As a result of studying the academic discipline, the student should know:

- theoretical foundations, state, possibilities, prospects of development of artificial intelligence technologies;
- advanced methods, models, tools and technologies of computerized information processing and automated control based on the theory of artificial agents and multi-agent systems;
- basic models and algorithms of artificial intelligence for solving intellectual tasks in various subject areas,
- the main ways of increasing the intellectual level of information systems;
- problems associated with the application of agent-based approaches and technologies.

be able to:

- use the acquired knowledge of development, adaptation and use of the latest informatics and artificial intelligence tools based on the theory of agents in professional activity;
- apply new professional knowledge to create intellectual models and algorithms;
- apply the achievements of artificial intelligence technologies to realize intelligent components of information systems in various applied areas;

possess:

- skills of designing agent and multi-agent models in various applied areas;
- skills of creating agent and multi-agent components of program systems in various applied areas.

### 3. Formable competences

SC-6 Develop distributed and multithreaded applications in information systems.

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

HEA, TA, exam

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