

FUNDAMENTALS OF MACHINE LEARNING
TO THE CURRICULUM OF THE INSTITUTION OF HIGHER EDUCATION

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

Specialization: Automated information processing systems

Specialty 6-05-0611-04 Electronic economy

Specialization: Electronic marketing

	The form of higher education		
	Full-time (full-time)	Correspondence*	Correspondence shortened*
Course	3	2	
Semester	5	6	
Lectures, hours	16	4	
Laboratory, hours	34	6	
Exam, semester	5	6	
Classroom control work		6 (2ч.)	
Classroom hours per academic discipline	50	12	
Independent work, hours	58	96	
Total hours of the discipline / credit units	08/3	108/3	

Specialty 6-05-0611-04 Electronic economy

Specialization: Electronic marketing

	The form of higher education		
	Full-time (full-time)	Correspondence*	Correspondence shortened*
Course	3	2	
Semester	5	6	
Lectures, hours	16	4	
Laboratory, hours	34	8	
Exam, semester	5	6	
Classroom control work		6 (2ч.)	
Classroom hours per academic discipline	50	14	
Independent work, hours	58	94	
Total hours of the discipline / credit units	108/3	108/3	

1. Summary of the content of the discipline

The purpose of the discipline: an overview study of modern methods of automatic detection and description of hidden patterns in data.

2. Learning outcomes

As a result of mastering the academic discipline, the student must knowledge:

mathematical foundations of machine learning theory, basic approaches to data preprocessing; basic algorithms for classifying objects; formulation of regression, classification, ranking, clustering, and dimensionality reduction tasks;

be able to:

choose a machine learning method appropriate to the task under study; visualize the results of machine learning algorithms;

have the following skills:

skills in applying data analysis and machine learning methods using modern software tools; an interdisciplinary approach to problem solving.

3. Emerging competencies

Use modern methodologies and software tools to build and analyze models of processes, data, and objects.

4. Requirements and forms of current and intermediate attestation

Defence of laboratory works – current, oral -written, exam – intermediate, oral -written