

# OPERATING SYSTEMS

(name of discipline)

## OUTLINE

### TO THE SYLLABUS OF THE INSTITUTION OF HIGHER EDUCATION

Specialty 1-53 01 02 Automated Systems of Information Processing

	Form of higher education		
	Full-time (full-time)	Correspondence	Part-time
Course	2	2	2
Semester	3	4	3
Lectures, hours	34	8	8
Laboratory hours	16	4	4
Test, semester	3	4	3
Classroom hours in the educational discipline	50	12	12
Independent work, hours	54	96	96
Total hours of the discipline/ credit units	108/3		

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

Teaching students to work in modern operating systems, algorithms used in operating systems.

#### 2. As a result of mastering the discipline, the student must know:

composition of the operating system,  
operating system functions,

basic algorithms implemented in operating systems when performing their functions;

ways of generating and identifying tasks in multitask and distributed computing environments;  
mechanisms of inter-task interactions; characteristics and methods of building client-server type systems;

peculiarities of programming multitask distributed systems.

#### be able to:

configure specific configurations of operating systems;

expand the capabilities of operating systems.

#### to master:

skills of working in the environment of various operating systems;

skills of operating systems administration.

#### 3. Competencies to be formed

BPC-13- Manage operating systems, use methods of task scheduling, synchronization, administration, and information protection.

#### 4. Requirements and forms of current and interim certification.

Protection of laboratory works, credit, exam.