OPERATING SYSTEMS
(name of the discipline)
ANNOTATION
TO THE CURRICULUM OF THE INSTITUTION OF EDUCATION
Specialty-6-05-0611-01 Information systems and technologies

	Form of higher education		
	Full-time (daytime)	Extramural	Extramural abbreviated
Course	2		
Semester	3		
Lectures, hours	34		
Laboratory classes, hours	16		
Report, semester	3		
Classroom hours per academic discipline	50		
Independent work, hours	58		
Total hours per academic discipline / credit units	108/3		

1. Brief content of the discipline
Teaching students to work in modern operating systems, algorithms used in operating systems.
2. As a result of mastering the academic discipline, the student must
know:
- structure, basic principles of construction and operation of operating systems; principles of single-tasking and multi-tasking operation of operating systems (OS), methods of organizing parallel development and synchronization of processes; -element base and structure of the main software and hardware modules of the computer; the architecture of the main file systems supported by the OS, methods of interaction with architectural elements and maintaining the integrity of file systems; input/output devices and software; tools and methods for organizing virtual memory, organizing work with shared memory, simple memory management schemes; organization of network operating systems, main problems of information security, methods and protective mechanisms of operating systems.
be able to:
use OS tools; use system control commands; use the OS electronic help service; work as an OS user; install and configure the OS, create the simplest local complexes based on network OS; develop programs that expand the capabilities of the OS.
has a skill:
computer skills and technology in modern operating systems; techniques for installing and configuring operating systems and software; command languages and methods for managing the tools of the operating systems used; organization, creation and maintenance of file systems used by the OS.
3. Formed competencies
Possess the principles and basic skills of techniques, methods of setting up, adapting and maintaining software.
4. Requirements and forms of current and intermediate certification.
Defence of laboratory works – current, oral -written, credit – intermediate, oral -written