

"HARDWARE - SOFTWARE FOR COMPUTERS AND NETWORKS"

(name of the discipline)

OUTLINE TO THE SYLLABUS OF THE INSTITUTION OF HIGHER EDUCATION

Specialty 6-05-0612-03 Information management systems

Profiling Automated information processing systems

	Form of higher education		
	Full-time (full-time)	Correspondence	Part-time
Course	3	3,4	2
Semester	5,6	6,7	3,4
Lectures, hours	68	16	16
Practical (seminar) classes, hours	16	4	4
Laboratory classes, hours	50	12	12
Term paper, semester	6	7	4
Midterm credit, semester	5	6	3
Exam, semester	6	7	4
Classroom hours in the educational discipline	134	32	32
Independent work, hours	154	256	256
Total hours in the educational discipline / credit units	288/8		

1.Summary of the contents of the study discipline

The purpose of the discipline is to train professionals in the specialty "Automated systems of information processing", in the field of modern network technologies and electronic computers (ECM), providing: getting theoretical knowledge about hardware and software of modern network technologies, getting practical skills in the deployment of local and corporate networks, configuration of network devices, skills in computer network design.

2. Learning objectives

Know:

standards in the field of information and communication systems and technologies; basic principles and network protocols of interaction of network devices and software; multilevel architecture of open systems, protocols and interfaces implemented in it; hardware and software of computer networking technologies; error protection methods and basics of security in computer networks; basics of Internet technologies.

be able to:

use standards and protocols in the field of computer networks; develop network technologies; develop and operate hardware and software systems and computer networks; install, test, test and use computer and network hardware and software; have practical skills in modern network operating systems.

possess:

skills in developing computer networks of different topologies; basic methods of setting up and configuring various network devices; skills in working with different operating systems and their administration; skills in configuring devices of local networks, implementation of network protocols using software tools; methods of monitoring network nodes and telecommunications equipment; methods of ensuring the necessary level of computer network security.

3 Requirements for mastering the discipline

Mastering this academic discipline must ensure the formation of the following competencies: to master the basics of research, to search, analyze and synthesize information, To apply methods and methods of parameter control, standardization and certification of software and computer systems

4 Educational technologies

In the study of the discipline used the following forms of current certification - protection of laboratory work, intermediate - test and exam.