

INFORMATION TECHNOLOGIES

(name of discipline)

OUTLINE

TO THE SYLLABUS OF THE INSTITUTION OF HIGHER EDUCATION

Specialty-1-25 01 04 "Finance and Credit

	Form of higher education	
	Full-time (full-time)	Part-time short-time
Course	1	1
Semester	1,2	1,2
Lectures, hours	50	12
Laboratory hours	84	18
Classroom hours in the educational discipline	134	32
Course credit	1 Sem	1 Sem
Экзамен, семестр	SEM	SEM
Auditory control work (semester, h.)		2 semesters, 2 h
Independent work, hours	190	294
Total hours per discipline/ credit units	324/9	324/9

1. Summary of the contents of the study discipline

Formation of theoretical knowledge of modern information technologies and systems, based on the use of computers and network technologies, and mastering the practical skills of their use as a tool for solving problems in the subject area.

2. Learning outcomes

The student must **know**:

basic concepts of IT; functional elements of computers and computer networks; purpose and composition of system and application software; basics of programming in the environment of office applications in the VBA language;

- the concept of a database and approaches to database design; functionalities of DBMS and SQL language; multi-user database processing systems; database administrator functions; the purpose of stored data; the concept of the knowledge base and knowledge representation models
- the principles of organization of IS in the subject area; standards in the field of CIS; technology modeling of business processes; the concept of reengineering of business processes; basic methods and means of information security in CIS;

be able to:

- determine the configuration of a personal computer; use Internet network services when solving professional tasks; develop and publish Web pages; develop macros and modules in VBA language;
- design databases; -work with knowledge bases in expert systems;
- work in artificial intelligence systems; to model business processes; to formulate the task of designing CIS; to solve economic problems by means of CIS.

possess:

- skills of creating text, tabular, graphic documents and dynamic presentations;
- technologies of creating databases and their applications.

3. Formable competencies

UK-2 Solve standard tasks of professional activity on the basis of the use of information and communication technologies, BPC-1 Apply information technologies of computer system management, use office software products in professional activity.

4. Requirements and forms of current and intermediate attestation

ZLR, PCU, TA, exam.

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