

DATABASES

(course title)

COURSE SYLLABUS ABSTRACT
of higher education institution
speciality

Specialty 6-05-0612-03 Information management systems

	STUDY MODE		
	full-time	part-time	part-time (shortened program)
Year	2	2, 3	2
Semester	3, 4	3,4	3,4
Lectures, hours	68	12	12
Laboratory classes, hours	32	8	8
In-class test (semester, hours)		3,4sem.(4h.)	3,4 sem.(4h.)
Exam, semester	3, 4	3,4	3,4
Contact hours	100	24	24
Independent study, hours	152	192	192
Total course duration in hours / credit units	252/7		

1. Course outline

The purpose of the discipline "Databases" is the formation of professional competencies for working with modern technologies for creating and operating databases used in various fields of science, technology and economics.

2. Course learning outcomes

Upon completion of the course, students will be expected to

know:

- basic concepts of databases, basics of building and functioning of databases;
- SQL language;
- ways to work with relational and non-relational databases;
- principles of database modeling and design;

be able to:

- build an information model of the subject area;
- create a database corresponding to the model;
- organize the input of information into the database and the output of reports;
- formulate queries to the database;

own:

- the theory and standards of data description and manipulation languages, the theoretical and mathematical foundations of constructing the selected data model;
- database design skills.

3. Competencies

Mastering this training discipline should ensure the formation of the following competencies: Design and use relational and non-relational databases

4.Requirements and forms of current and intermediate attestation.

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