<u>**DATABASES**</u>
(course title)
COURSE SYLLABUS ABSTRACT
of higher education institution speciality
Information systems and technologies specialty 6-05-0611-01
(code and name of specialty)
Information systems and technologies in design and

	STUDY MODE
	full-time
Course	2
Semester	3, 4
Lectures, hours	68
Laboratory classes, hours	32
Auditorium control work (semester, hours)	
Exam, semester	4
Credit, semester	3
Auditorium hours on academic discipline	100
Independent work, hours	152
Total hours for the academic discipline / 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, create and administer information databases for information support of software complexes and systems

4 Requirements and forms of midcourse evaluation and summative assessment

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