

## DATABASE

### **COURSE SYLLABUS ABSTRACT of higher education institution**

**Speciality 1-28 01 02 – Digital Marketing**

	Форма получения высшего образования	
	Очная (дневная)	Заочная
Year	2	2
Semester	4	4
Lectures, hours	16	6
Laboratory classes, hours	34	4
Exam, semester	4	4
In-class test (semester, hours)	–	4 (2 часа)
Contact hours	50	12
Independent study, hours	58	96
Total course duration in hours / credit units	108/3	

**1. Course outline:** Logical design. Physical design. Distributed databases and data warehouses.

**2. Course learning outcomes:** upon completion of the course, students will be expected to

- know: the basic concepts of the database, the basics of building and functioning of the database, database organization technologies; the language of creating and manipulating SQL data; methods of data protection; techniques for working in distributed and multi-user databases;

- be able to: build an information model of the subject area; create a database corresponding to the model in the used DBMS; organize the input of information into the database and the output of reports; formulate queries to the database; organize work in a multi-user database;

- possess: methods, tools and technologies for developing information models and their software implementation in the selected DBMS; theory and standards of data description and manipulation languages, theoretical and mathematical foundations for constructing the selected data model; technologies and techniques for software implementation of databases, methods and language tools for data manipulation, maintaining integrity, consistency and information protection; technology for organizing distributed databases, methods and means of their implementation and use in solving professional tasks.

**3. Competencies:** design, create and administer information databases for information support of software complexes and systems (BPC-13).

**4. Requirements and forms of midcourse evaluation and summative assessment**

Mid-course evaluation: defending of reports on laboratory classes, tests, intermediate progress control. Summative assessment: exam.