

**DATABASE MANAGEMENT SYSTEMS**  
**ANNOTATION**  
**TO THE SYLLABUS OF THE INSTITUTION OF HIGHER EDUCATION**  
**Specialty 6-05-0612-03 "Information Management Systems"**

	Form of higher education		
	Full-time (dayl-time)	Full-time (dayl- time)	Full-time (dayl-time)
Course	2,3	2,3	2,3
Semester	4,5	5,4	5,4
Lectures	68	14	14
Practical classes	16	4	4
Laboratory work	32	8	8
Course project	5	5	5
Credit	4	4	4
Exam	5	5	5
Auditorium hours for the academic discipline	116	26	26
Independent work	136	226	226
Total hours in the discipline / credit units	252/7		

### **1 Summary of the academic discipline**

The aim of the study discipline "Database Management Systems" is the formation of professional competences for working with modern DBMS and technologies for the creation and operation of databases and databanks as part of automated information processing systems implemented in various fields of science, technology and economics.

### **2 Learning outcomes**

As a result of mastering the academic discipline the learner should know:

- ways of working with relational databases in single-user and multi-user DBMSs;
- principles of database modelling and design and project transfer to DBMSs methods of implementing distributed and parallel data processing;
- possibilities of modern DBMS for building decision support systems, be able to:
  - practically create and administer databases;
  - create an interface with databases;
  - install and configure server and client applications

databases.

possess:

- database-based systems programming techniques;
- database design skills in SQL Server DBMS.

### **3. Formative competences**

Mastering of this academic discipline should ensure the formation of the following competences: Master the basics of research, search, analyse and synthesize information, Be capable of self-development and improvement in professional activities, Take initiative and adapt to changes in professional activities, Use software tools to create, maintain, manage and share databases.

### **4. Requirements and forms of current and intermediate attestation.**

Defence of laboratory works - current attestation, credit - intermediate attestation, oral and written.