DATABASE MANAGEMENT SYSTEMS
(course title)

COURSE SYLLABUS ABSTRACT
of higher education institution
speciality

<u>1-53 01 02 Automated information processing and management systems</u>
(speciality code and name)

	STUDY MODE		
	full-time	part-time	part-time (shortened program)
Year	2, 3	3	2
Semester	4, 5	5,6	4
Lectures, hours	68	14	6
Practical classes, hours	16	4	4
Laboratory classes, hours	32	8	4
Term paper, semester	5	6	4
Pass, semester	4	5	
Exam, semester	5	6	4
Contact hours	116	26	14
Independent study, hours	136	226	238
Total course duration in hours / credit units	252/7	252/7	252/7

1. Course outline

The purpose of the discipline "Database Management Systems" is the formation of professional competencies for working with modern database management systems, the basics of database operation as part of automated information processing systems implemented in various fields of science, technology and economics.

2. Course learning outcomes

Upon completion of the course, students will be expected to
know:
– SQL language; ways of working with relational databases;
– ways to implement distributed and parallel data processing;
– capabilities of modern DBMS for building decision support systems;
be able to:
– practically create and administer databases;
– create an interface with databases;
– organize work in a multi-user database;
– install and configure server and client database applications;
possess:
– methods, means and technologies for the development of information models and their software implementation in the selected DBMS;
– methods of programming systems based on databases.

3. Competencies
СК-8 To carry out the selection, design, implementation, quality assessment, efficiency analysis and use of modern database management systems
УК-1 To master the basics of research activities, to search, analyze and synthesize information
УК-5 Have the skills of self-development and improvement in professional activity
УК-6 To take the initiative and adapt to changes in professional activity

4. Requirements and forms of midcourse evaluation and summative assessment: Pass, exam.