

# QUANTITATIVE METHODS OF BI ANALYSIS

(course title)

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

1-25 80 01 "Economy"

(speciality code and name)

Economic development of industrial and transport organizations

(profiling)

	STUDY MODE	
	full-time	part-time (shortened program)
Year	1	1
Semester	1	2
Lectures, hours	36	10
Practical classes (seminars), hours	18	4
Laboratory classes, hours	18	6
Exam, semester	2	2
Contact hours	72	20
Independent study, hours	144	196
Total course duration in hours / credit units	216/6	216/6

### 1. Course outline

The discipline is aimed at developing in students the theoretical and methodological foundations of statistics and quantitative methods for analyzing information in a business environment, the methodology for applying these methods to make specific management decisions in a market economy. The discipline also aims to provide the necessary knowledge and skills for mastering modern software tools that allow you to effectively apply the methods of quantitative analysis of business information that are currently widely used in the business environment.

### 2. Course learning outcomes

Upon completion of the course, students will be expected to

**know:** analytical needs of the organization at the strategic and tactical levels, methods of preliminary data analysis, data analysis methods necessary to solve the analytical problems of the organization;

**be able to:** formalize the analytical task of the organization, formulated in the language of the applied area, presenting it in the form of mathematical relationships (models) and statistical hypotheses, select methods for identifying the constructed models and criteria for testing the formulated hypotheses;

**possess:** skills of independent construction of a business intelligence system in an organization, i.e. defining a system of analytical tasks as a set of interrelated and interacting elements necessary to support decision-making in the implementation of business development projects.

### 3. Competencies

SC-3- Be able to form, process and analyze databases to solve practical business problems under conditions of uncertainty.

UC-2- Independently study new methods of economic design, research, organization of production.

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

To assess the level of knowledge of students, the following diagnostic tools are used:

– oral form: interview during individual and group consultations; reports at the conference;

– oral-written form: oral and written questioning during practical classes; protection of laboratory work; exam.