

STATISTICS

COURSE SYLLABUS ABSTRACT

Speciality 1-27 01 01 - Economics and Production Management (majors in)

	STUDY MODE	
	Full-time	Part-time
Year	2	-
Semester	3	-
Lectures, hours	34	-
Practical classes (seminars), hours	16	-
Laboratory classes, hours	16	-
Course paper, semester	3	4
Graded exam, semester	3	-
Contact hours	66	-
Independent study, hours	42	-
Total course duration in hours / credit units	108 / 3	36 / 1

1. Course outline: subject and method of statistical science; statistical observation theory; groupings of statistics; statistical tables and graphs; statistical indicator theory; theory of mean values; statistical study of variation; Selective statistical research in business; Study the dynamics of business processes the index method in statistical research; correlation-regression analysis in statistical studies; statistical observation of enterprises; personnel statistics; Fixed capital statistics; working capital statistics; financial performance statistics.

2. Learning objectives and outcomes: upon completion of the course, the students will be expected to:

- know: statistical methods used at the main stages of economic and statistical research, to collect primary information; its processing, calculation of generalizing indicators; sources of statistical information and the main ways of obtaining data in various business areas; issues of group formation and grouping intervals; principles of graphical representation of data; methods of descriptive statistics and time series analysis for studying trends and forecasting supply and demand in business; theoretical foundations of the sampling method, the main types of indices, their relationship and significance for understanding market conditions; correlation and regression analysis for making optimal decisions; statistical methods of accounting and analysis at the level of an individual firm;

- be able to: work with data in accordance with international standards and rules on statistics; choose optimal time series models for forecasting and perform seasonal data analysis; move from statistical calculations to interpretation of results to make optimal decisions;

- possess: basic techniques of statistical data processing; methods of solving statistical problems; methods of graphical representation of information for solving problems of specific subject areas of business

3. Competencies to be developed:

CK-7 – Master methods for collecting, processing, analyzing and visualizing statistical information at the macro and micro levels.

4. Academic performance assessment

The module-based rating system is used. Mid-course evaluation: test; individual assignment. Summative assessment: graded exam.