

PROBABILITY THEORY

COURSE SYLLABUS ABSTRACT of higher education institution speciality

Specialty 1-25 01 07 Economics and management at the enterprise

	STUDY MODE	
	full-time	part-time (shortened program)
Year	2	2
Semester	3	3
Lectures, hours	16	4
Practical classes (seminars), hours	16	4
Credit, semester	3	3
Contact hours	34	8
Independent study, hours	74	100
Total course duration in hours / credit units	108/3	

1. Course outline: basic concepts and theorems of probability theory, scheme of repeated independent tests, random variables and their basic distribution laws, law of large numbers and limit theorems, multivariate random variables, basics of mathematical statistics, statistical estimation, testing of statistical hypotheses, basics of analysis of variance, correlation and regression analysis.

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

know: basic concepts and theorems of probability theory; distribution laws of random variables; methods of processing and analysis of statistical data;

be able: apply probabilistic and statistical methods to solve economic problems;

possess: methods of probability theory and mathematical statistics in solving mathematical and economic problems.

3. Competencies

Generated competencies codes	Names of competencies to be formed
BPC -1	Use basic mathematical concepts and calculation methods for the analysis and modeling of economic processes

4. Requirements and forms of midcourse evaluation and summative assessment

№	Type of valuation funds	Number of sets
1	Test for the credit (electronic test)	1
2	Control work (electronic test)	3
3	Knowledge Assessment Test	10