PROBABILITY THEORY

COURSE SYLLABUS ABSTRACT
of higher education institution
speciality

Specialty 1-25 01 04 Finance and credit

	STUDY MODE	
	full-time	part-time
Year	2	2
Semester	3	3
Lectures, hours	16	4
Practical classes (seminars), hours	16	6
Credit, semester	3	3
In-class control work (semester, hours)		3 (2 h)
Contact hours	34	12
Independent study, hours	74	96
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 -2	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

№ п/п	**Вид оценочных средств**	**Количество комплектов**
1	Test for the credit (electronic test)	1
2	Control work (electronic test)	3
3	In-class control work (electronic test)	1
4	Knowledge Assessment Test	10