MATHEMATICS

COURSE SYLLABUS ABSTRACT
of higher education institution

Specialty: 6-05-0716-03 Information and measuring instruments and systems
Profiling: Information systems and technologies for non-destructive testing and diagnostics

	STUDY MODE
	full-time
Year	1, 2
Semester	1, 2, 3
Lectures, hours	118
Practical (seminar) classes, hours	134
Exam, semester	1, 2, 3
Contact hours	252
Independent study, hours	288
Total course duration in hours / credit units	540 / 15

Добавлено примечание ([ВК1]): Добавить в табл

1. Brief content of the academic discipline: linear algebra and analytical geometry, vector algebra, introduction to mathematical analysis, differential and integral calculus of functions of one and many variables, differential equations, numerical and functional (power) series, functions of a complex variable, probability theory and elements of mathematical statistics.

2. As a result of mastering the academic discipline, the student must:
know the basic concepts, definitions and methods of the higher mathematics course;
be able to - analyze and apply theoretical knowledge when solving standard educational problems and problems of increased complexity, draw informed conclusions;
have the skill:
– creative analytical thinking;
– independently generate and implement new ideas and methods.

3. Formed competencies. BOD-1. Use the basic concepts and methods of mathematics, apply the acquired knowledge to solve theoretical and practical problems.

4. Requirements and forms of current and intermediate certification. Current certification: ZIZ – protection of an individual assignment; PKU – intermediate progress control. Interim certification: exam, test. Assessment of the student's level of knowledge and the development of competencies in all forms of control is carried out on a ten-point scale.