The name of the academic discipline:
«Linear Algebra and Analytic Geometry»

Code and name of specialty	6-05-0612-01 Software Engineering
Training course	1
Semester of training	1
Number of class hours:	68
Lectures	34
Seminar classes	-
Practical classes	34
Laboratory classes	-
Form of current assessment (credit/differential credit/exam)	exam
Number of credits	3
Competencies to be formed	Mastering the discipline "Linear Algebra and Analytic Geometry" should ensure the formation of basic professional competencies: apply the methods of matrix calculus, analyze the solutions of systems of linear algebraic equations, investigate the equations of curves and surfaces using analytical methods to solve applied engineering problems.

Summary of the academic discipline:

"Linear Algebra and Analytic Geometry" is an academic discipline that includes the following sections: coordinate vector spaces, linear spaces, Euclidean linear spaces; elements of vector algebra, method of coordinates on a plane, line on a coordinate plane, lines of the second order, methods of coordinates in space, vector and mixed product of vectors, planes and lines in space, surfaces of the second order, polyhedra - mastering the basic concepts of analytical geometry, the formation of systematic knowledge about the coordinate-vector method and the skills of its application to solve theoretical and practical problems.