

**Academic discipline:
«Numerical methods»**

Code and name of specialty	1-40 01 01 Software Engineering
Training course	1
Semester of training	2
Number of class hours:	50
Lectures	26
Seminar classes	-
Practical classes	-
Laboratory classes	-24
Form of current assessment (credit/differential credit/exam)	exam
Number of credits	3
Competencies to be formed	The state component academic discipline «Numerical methods» provides the formation of universal and basic professional competencies: to have the skills of creative analytical thinking; to choose effective algorithms of computational mathematics for solving professional tasks, interpret and analyze the results of its solving.
Brief content of the academic discipline:	
Theoretical basis of numerical methods. Fundamentals of error theory Numerical methods of linear algebra Methods of functions interpolation and approximation Solving nonlinear equations Numerical integration and differentiation Numerical methods for solving differential equations and systems	