

**Academic discipline:  
"Algebra problem solving workshop"**

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| <b>Code and name of specialty</b>   | 6-05-0113-04 Physics and mathematics education (mathematics and computer science)  |
| <b>Training course</b>  | 1 / 2  |
| <b>Semester of training</b>   | 2 / 4  |
| <b>Number of class hours:</b>   | 106  |
| <b>Lectures</b>   | 36   |
| <b>Seminar classes</b>  | -  |
| <b>Practical classes</b>  | 70   |
| <b>Laboratory classes</b>   | -  |
| <b>Form of current assessment (credit/differential credit/exam)</b>   | Credit/exam  |
| <b>Number of credits</b>  | 3  |
| <b>Competencies to be formed</b>  | To apply a system of knowledge and skills in elementary mathematics to teach students algebra and geometry, methods and technologies of algorithmization and programming for the implementation of the educational process |
| <b>Summary of the content of the academic discipline:</b>   |  |
| <p>“Algebra problem solving workshop” is an academic discipline that includes the following sections (disciplines): arithmetic and algebra; solving rational and irrational equations and inequalities; solving textual problems; solving exponential and logarithmic equations and inequalities; solving trigonometric equations and inequalities; functions, their properties and graphs; equations and inequalities with parameters; logical and combinatorial problems. The study of the discipline "Algebra problem solving workshop" allows future mathematics teachers to teach general and private methods of solving problems; to form strong skills and abilities for solving problems in school mathematics; to provide conditions for activating students' cognitive activity and forming their experience of mathematical activity during solving problems in algebra.</p> |  |