**The name of the academic discipline:**

**“General Methodology of Teaching Mathematics”**

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| **Specialty code and name** | 6-05-0113-04 Physical and Mathematical Education (Mathematics and Informatics) |
| **Year of study** | 2 |
| **Semester of study** | 3 |
| **Number of in-class academic hours:** | 50 |
| **Lectures**  **Seminar classes**  **Practical classes**  **Laboratory classes** | 22 |
| - |
| 24 |
| 4 |
| **Form of the current assessment (*credit/ graded credit /exam*)** | credit |
| **Number of credit points** | 3 |
| **Competences** | Have a basic understanding of research activities, search, analyze and synthesize information.  Solve standard tasks of professional activity based on the use of information and communication technologies.  Show initiative and adapt to changes in professional activity.  Have a scientifically based methodology for developing mathematical concepts, teaching proof of mathematical statements and solving mathematical problems. |
| **Summary of the academic discipline:**  Subject and main categories of methods of teaching mathematics.  Ideological issues of teaching mathematics. Contents of mathematical education in secondary school.  Didactic principles of teaching and their implementation in teaching mathematics.  Methods of teaching mathematics.  Methods of scientific knowledge in teaching mathematics.  Technologies of teaching mathematics.  Mathematical concepts and methods of their study.  Methods of studying theorems and proofs.  Methods of teaching students to solve problems.  Monitoring of educational and cognitive activity of students.  Forms of organization of training.  Extracurricular work in mathematics. | |