**The name of the academic discipline:**

**“Methods of teaching the solution of physical tasks of increased complexity”**

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| **Specialty code and name** | 1-02 05 02 Physics and Informatics |
| **Year of study** | 4 |
| **Semester of study** | 8 |
| **Number of in-class academic hours:** | 42 |
| **Lectures****Seminar classes** **Practical classes****Laboratory classes** | 10 |
| - |
| 32 |
| - |
| **Form of the current assessment (*credit/ graded credit /exam*)** | credit |
| **Number of credit points** | 2 |
| **Competences** | Carry out professional activity in the conditions of updating its goals, content, changing technologies, determine methods for solving professional problems, evaluate their effectiveness and quality. Design the learning process, set educational goals, select the content of educational material, methods and technologies based on the system of knowledge in the field of the theory of methods of pedagogical activity. Apply the methodology of forming physical concepts and teaching the solution of physical problems, conducting a practical course, a physical experiment in the educational process at the level of general secondary education. |
| **Summary of the academic discipline:**1. Theoretical foundations of the technology of solving physical problems. 2. Solving a system of tasks in mechanics. 3. Solving a system of tasks in thermodynamics and statistical physics. 4. Solving a system of tasks in electrodynamics. 5. Solving a system of tasks in oscillations and waves. 6. Solving a system of tasks in optics. 7. Solving a system of tasks in quantum physics. |