**The name of the academic discipline:**

**“Fundamentals of Quantum Mechanics and Quantum Field Theory”**

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| **Specialty code and name** | 1-02 05 02 Physics and Informatics |
| **Year of study** | 4 |
| **Semester of study** | 7 |
| **Number of in-class academic hours:** | 46 |
| **Lectures****Seminar classes** **Practical classes****Laboratory classes** | 28 |
| - |
| 18 |
| - |
| **Form of the current assessment (*credit/ graded credit /exam*)** | exam |
| **Number of credit points** | 3 |
| **Competences** | Apply the basic principles of optics and quantum physics to solve problems of interdisciplinary and practice-oriented content; apply theoretical and practical skills, research methods in the field of astronomy, electrodynamics and theoretical physics. |
| **Summary of the academic discipline:**Experimental foundations of quantum mechanics. Mathematical apparatus of quantum mechanics. Accurately solvable problems of quantum mechanics. Fundamentals of the theory of identical particles. Relativistic theory of Dirac. |