**The name of the academic discipline:**

**“Specialized physical workshop”**

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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:** | 44 |
| **Lectures****Seminar classes** **Practical classes****Laboratory classes** | 16 |
| - |
| - |
| 28 |
| **Form of the current assessment (*credit/ graded credit /exam*)** | credit |
| **Number of credit points** | 3 |
| **Competences** | The specialist must carry out educational, methodological, research and innovative activities through the adaptation and implementation of pedagogical innovations to improve educational practice. |
| **Summary of the academic discipline:**Introduction to modeling. Basic methods of numerical modeling. Fourier analysis of continuous and discrete functions. Models of physical processes using first-order differential equations. Modeling of oscillatory processes. Modeling of optical phenomena. Modeling of static electric and magnetic fields. Modeling of the motion of electric charges in electric and magnetic fields. |