**The name of the academic discipline:**

**“Electricity and Magnetism”**

|  |  |
| --- | --- |
| **Specialty code and name** | 6-05-0113-04 Physical and Mathematical Education (Physics and Informatics) |
| **Year of study** | 2 |
| **Semester of study** | 4 |
| **Number of in-class academic hours:** | 120 |
| **Lectures****Seminar classes** **Practical classes****Laboratory classes** | 46 |
| - |
| 38 |
| 36 |
| **Form of the current assessment (*credit/ graded credit /exam*)** | credit |
| **Number of credit points** | 3 |
| **Competences** | To have a command of classical sections of physics and astronomy in order to carry out educational research activities. |
| **Summary of the academic discipline:**Electric field in vacuum. Conductors in electric field. Dielectrics in electric field. Electric field energy. Direct current. Electrical conductivity of solids. Electrical conductivity of electrolytes. Electric current in gases and vacuum. Magnetic field. Magnetic properties of matter. Electromagnetic induction. Quasistationary currents. Electromagnetic field. Electromagnetic waves. |