

**Academic discipline:
" Electricity and Magnetism "**

Code and name of specialty	1-02 05 02 Physics and Informatics
Training course	2
Semester of training	4
Number of class hours:	132
Lectures	50
Seminar classes	-
Practical classes	42
Laboratory classes	40
Form of current assessment (credit/differential credit/exam)	credit/exam
Number of credits	6
Competencies to be formed	To carry out research and experimental activities in solving problems of physical kinetics
Summary of the content of the academic discipline:	
<p>The discipline "Electricity and Magnetism" includes the following sections: Electric field in vacuum. Conductors in an electric field. Dielectrics in an electric field. The energy of the electric field. Direct current. Electrical conductivity of solids. Contact phenomena in metals and semiconductors. Electrical conductivity of electrolytes. Electric current in gases and vacuum. Magnetic field. Electromagnetic induction. Magnetic properties of the substance. Quasi-stationary currents. Electromagnetic field. Electromagnetic waves.</p>	