

## **PASSPORT OF THE EDUCATIONAL PROGRAM**

## • 7M01504 - Physics

PURPOSE OF THE EDUCATIONAL PROGRAM	Preparation of masters of education who have basic scientific or professional training, possess modern information technologies, demonstrate a systematic understanding of the field of study, skillfully organize a scientific experiment, formalize the results of their research in publications at the national or international level and are provided with fundamental, high-quality, professional and pedagogical education, specialized knowledge in the field of physics, which allow the successful development of science.
FIELD OF PROFESSIONAL ACTIVITY	Education and upbringing, as well as scientific activities, government regulation related to education.

## LEARNING OUTCOMES (LO)

LO1-defines and describes phenomena, basic concepts, basic laws, and their experimental and theoretical basis from the main areas of physics;

LO2-finds examples of coordination and effective use of fundamental physical theories and the content of physical examples in other intersubject relations;

LO3-explains the facts about the accelerated expansion of the Universe, rules and principles; describes the consequences of the theory of the birth of the Universe, resulting from the available data;

LO4-conducts scientific observations of physical processes, uses the apparatus to collect experimental data, and works using physical equipment;

LO5-analyzes scientific and technical information, study domestic and foreign

experience on the subject of research;

LO6-applies the advanced experience of physics teachers in organizing experimental activities of schoolchildren and students in the educational process;

LO7-differentiates the advantages and disadvantages of the modern vacuum model of the Universe;

LO8-focuses on a wide range of new technologies, ideas, and directions and uses them in its teaching activities;

LO9-the ability to develop and improve the teaching methodology of individual issues in the science of physics;

LO10-the ability to reflexively choose and use sources of necessary information.