



PASSPORT OF THE EDUCATIONAL PROGRAM

• 7M01501 –Mathematics

TARGET EDUCATIONAL PROGRAM

Training of masters of education with fundamental scientific or professional training, possessing modern information technologies, methods of constructing theoretical mathematical models and their mathematical formalization and solutions, formalizing the results of their research in publications at the national or international level and provided with fundamental, high-quality, professional and pedagogical education, specialized knowledge in the field of mathematics, which allows you to successfully develop science.

REGION PROFESSIONAL ACTIVITY

- Education and upbringing;
- Scientific activity;
- Government regulation related to education..

LEARNING OUTCOMES (LO)

LO 1 – applies basic concepts, basic theorems and their proofs, basic formulas and a theoretical basis from the main areas of mathematics, uses in pedagogical activity the knowledge and skills obtained in the course of studying in the master's program, such as pedagogical measurements, trends in the development of mathematical education, regulatory legal acts and basics of electronic documentation;

LO 2 – uses the techniques of coordination and effective use of fundamental mathematical theories, methods and examples in other interdisciplinary connections;

LO 3 – interprets the academic language of mathematics; the importance of using mathematical models to solve various applied problems; the role of graphical representation of statistical data in quantitative and qualitative analysis;

LO 4 – analyzes scientific and technical information, study domestic and foreign experience on research topics;

LO 5 – learns the advanced experience of mathematicians in organizing educational, research activities of schoolchildren and students;

LO 6 – orientates in a wide range of the latest technologies, ideas, directions and be ready to use them in their teaching activities;

LO 7 – practices teaching methods of certain issues of science - mathematics;

LO 8 – develops teaching methods, independently, effectively, responsibly, critically, reflexively select and use information and sources of obtaining this information;

LO 9 – demonstrates mathematical knowledge for solving practical problems, algorithms for solving mathematical problems, mathematical terminology in appropriate contexts, mathematical models for solving various applied problems, computing technology and software for solving mathematical problems;

LO 10 - organizes extracurricular work in mathematics related to the research and project activities of students, applies modern information and communication technologies in the educational process in accordance with age characteristics.