



PASSPORT OF THE EDUCATIONAL PROGRAM

• 6B05401-Mathematics

Educational programs purpose	Training of highly qualified specialists with basic knowledge and practical skills in the field of fundamental and applied mathematics, owning modern subject, communicative, digital competencies, capable of their implementation in research, analytical and teaching activities.
Professional activities form	<ul style="list-style-type: none">- Research Institute, Laboratories;- state and non-state educational organizations and educational enterprises;- Industrial enterprise and association.

LEARNING OUTCOMES (LO)

LO 1 - evaluates the surrounding reality on the basis of worldview positions, formed by knowledge of the foundations of philosophy and social sciences, analyzes the main stages and patterns of historical development for the formation of patriotism and civic position.

LO 2 - enters into communication in oral and written forms in kazakh, russian and foreign languages to solve problems of interpersonal, intercultural and professional interaction.

LO 3 - uses various types of information and communication technologies in personal activities.

LO 4 - applies mathematical thinking, mathematical culture as part of a professional and universal culture.

LO 5 - uses the knowledge of basic mathematical disciplines in solving standard mathematical problems.

LO 6 - demonstrates an understanding of the content of fundamental mathematical disciplines and their relationship.

LO 7 - demonstrates an understanding of the main theorems and is able to prove them.

LO 8 - solves problems from various fields of mathematics, which require some original thinking.

LO 9 - applies methods of proof of statements and theorems, methods of analysis and synthesis of the studied phenomena and processes.

LO 10 - defines the basic principles of the organization and planning of scientific research and the principle of choosing a direction with the establishment of relevance.

LO 11 - draws up and presents the results of scientific work, processing the results of research and observation, their image.

LO 12 - analyzes, creatively converts information from various sources to create a product, hypothesis, systemic explanation of a phenomenon or event.