



PASSPORT OF THE EDUCATIONAL PROGRAM

- **6B01503 – Mathematics-Computer science**

THE PURPOSE OF THE EDUCATIONAL PROGRAM

Preparation of the competitive math and computer science teachers, who are capable of critical and professional competence and able for intellectual self – development and self-improvement

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

LEARNING OUTCOMES (LO)

LO1 – apply digital technologies in professional activity and able to develop teaching methods of independent, efficient choice of required information from electronic sources.

LO2 - show managing and leadership abilities: critical thinking, creative approach and commitment to make decision in any life circumstances; apply knowledge in management, marketing, financing fields etc.

LO3 – work in team, analyze powerful sides of scientific communication, crucially assess current state of knowledge and experiences, develop, implement and improve plan of acquiring new knowledge and skills for specific professional goals;

LO4 – pursue the goals of professional activity, find, analyze, assess and apply in practice algorithms for solving certain mathematical problems, apply methods of building schoolchildren’s substantive skills and abilities, techniques of building an interest in math and computer science and harnessing mathematical knowledge and computer science skills in everyday life.

LO5 – analyze activity of all educational process subjects (teacher, students and their parents), work in cooperation with colleagues in order to improve math and computer science learning process.

LO6 – form learning aims for pursuing expected results of teaching the math and computer science, develop teaching materials and tools of assessment in accordance with the educational goals.

LO7 – show potential for continuous self-improvement in professional area.

LO8 – build personal educational path during the whole life or self-development and career development, orientate in healthy lifestyle for ensure full social and professional activity with methods and tools of physical culture.

LO9 - apply oral and written communication skills as in Kazakh (Russian) language, so in foreign languages for working with scientific texts and public appearances for communication in scientific and professional activity.

LO10 – reveal goals of national politics and relations among beliefs and traditions of different cultures, identify social priorities and assess current situation in the world.