

7M01501-Mathematics

The purpose of the educational program: preparation of undergraduates to solve professional problems in the field of mathematical education, their acquisition of practical skills and competencies in the field of professional research activities.

1.2 VISION, MISSION, PROGRAM GOAL, VALUES, UNIVERSITY GRADUATE ATTRIBUTES

Vision:

An intellectual platform that develops educators who are open to new ideas and able to lead in a rapidly changing world.

Mission:

Developing teacher leaders, who can create, develop, and disseminate advanced knowledge and values in education for the benefit of our country and the world.

Program goal:

Our University aims to become a hub for innovative teaching, learning, research as well as the development of rural education in Central Asia.

Values:

Integrity, commitment, care.

University graduate attributes:

GA 1 Self-guided learners and reflexive practitioners

GA 2 Responsible personalities with moral and ethical values

GA 3 Professionals with deep subject knowledge and digital skills

GA 4 Creative and critical thinkers and excellent team players and communicators

GA 5 Adaptive leaders in teaching and learning

GA 6 Diverse, inclusive and for equality of opportunity in society

1.3. THE RATIONALE BEHIND THE EDUCATION PROGRAM

The educational program has been developed in this direction taking into account the modern domestic and international experience of training, author's and collective scientific achievements, educational and methodological complexes in the field of specialization, the requirements of employers and the needs of the labor market.

1.4. DISTINCTIVE FEATURES OF THE EDUCATIONAL PROGRAM

The educational program implemented by the Kazakh State Women's Pedagogical University in the specialty "7M01501-Mathematics" has been developed taking into account the needs of the regional labor market, the requirements of regulatory documents of the Ministry of Science and Higher Education of the Republic of Kazakhstan, the professional standard "Teacher" and is a system of documents for the organization of the educational process.

Developed in accordance with the State Mandatory Standard of Higher Education, the Standard curriculum of the specialty, the classifier of specialties of higher education (Master's degree), the Dublin descriptors, consistent with the European Qualifications Framework, takes into account the expectations of employers and the individual interests of students.

The program is focused on the preparation of masters with knowledge and competencies that are in demand during specialized training in universities; special educational organizations

and organizations implementing inclusive education; during research training: in research institutes, higher educational institutions.

The program was developed on the principle of modular training and agreed with employers – social partners: the Financial and Economic College of the EInAEU of Almaty, with Abay KazNPU.

Academic mobility	Anadolu University (Eskisehir, Turkey)
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Coincidence with similar EP of leading universities in the near and far abroad

The correspondence of the content of the OP with the Moscow State Pedagogical University as a percentage is 48%, with Anadolu University in Turkey as a percentage is 45%.

1.5. GRADUATE CAREER OPPORTUNITIES

Graduates of the specialty 7M01501-Mathematics can work in general education institutions, educational institutions and research centers, in the field of science.

1.6. AREAS OF PROFESSIONAL COMPETENCE

- ✓ Educational (pedagogical);
- ✓ Educational and educational;
- ✓ Experimental research;
- ✓ Organizational and managerial;
- ✓ Information and analytical service in the field of mathematics

1.7. EDUCATIONAL PROGRAM LEARNING OUTCOMES:

LO1 – knows the current problems of modern scientific philosophy, professional foundations of information and oratorical communication (listening, reading, speaking, writing), skills of working with official correspondence (writing, e-mail, etc.)

LO2 – knows the theoretical and methodological foundations of the development of psychological and pedagogical science, teaching methods, the role and content of psychological and pedagogical research and is able to apply them in professional activities.

LO3 – performs research activities using modern scientific methods and programs for statistical processing of research results.

LO4 – is able to present the results of educational and research activities in written and oral form, publishing scientific papers in rating journals and making a report to the scientific community.

LO5 – develops the structure and content of academic disciplines, using knowledge of mathematics and methods of teaching mathematics, forms and methods of control and control and measuring materials that ensure the quality of the educational process.

LO6 – develops educational resources, designs and implements offline and online learning through the organization of individual or team work using digital technologies.

LO7 – evaluates students' academic achievements and determines ways to improve them based on the results of scientific research of the educational process and using various means and technologies for evaluating learning outcomes.

LO8 – forms students' stable motivation to study mathematics throughout their lives using a personality-oriented approach.

LO9 – analyzes information on the issue under consideration with the compilation of a mathematical model taking into account advanced experience of modern scientific achievements for system conclusions on the collected parameters.

Matrix for correlating EP learning outcomes with graduate attributes

	LO 1	LO 2	LO 3	LO 4	LO 5	LO 6	LO 7	LO 8	LO 9
GA 1		+	+	+	+	+	+		+
GA 2	+	+	+	+				+	
GA 3	+	+	+	+					+
GA 4		+	+	+	+	+	+	+	
GA 5	+	+	+					+	
GA 6				+	+	+	+	+	+

1.8. REFERENCES

The educational program is developed based on the following legal acts:

- 1) The state mandatory standard of postgraduate education. Order of the Minister of Science and Higher Education of the Republic of Kazakhstan dated July 20, 2022 No. 2.
- 2) Professional standard "Teacher". Order of the Acting Minister of Education of the Republic of Kazakhstan dated December 15, 2022 No. 500.