

## 1. CHARACTERISTIC OF THE EDUCATIONAL PROGRAM

**The purpose of the educational program:** preparation of highly qualified pedagogical personnel who contributes professionally to the development of human capital of the country.

### 1.1 GENERAL INFORMATION

<b>Type of educational program</b>	current
<b>Name of the educational program</b>	7M05302 Chemistry
<b>Field of education</b>	7M05 Natural sciences, mathematics and statistics
<b>Training direction</b>	7M053 Physical and Chemical Sciences
<b>The group of the educational program</b>	M089 Chemistry
<b>License to engage in educational activities</b>	The Educational program is implemented on the basis of the Appendix to the License № KZ04LAA00017104 dated September 27, 2019 in the direction of training 7M053 Physical and chemical Sciences (7M05302-Chemistry), issued by the Committee for control in the field of education and science of Ministry of Education and Science of the Republic of Kazakhstan.
<b>Number and Date of Registration/ Update in the Register of EP</b>	N7M05300047, 17.08.2023
<b>UNT Subjects</b>	Chemistry
<b>Educational level by NQF</b>	Master's degree, level 7
<b>Awarded degree</b>	Master of Natural Sciences in the educational program "7M05302-Chemistry"
<b>Accreditation</b>	<p><i>1) Institutional accreditation:</i> Independent Agency for accreditation and rating, certificate no. 12018901, date of issue: 21.12.2018, validity of accreditation: 20.12.2023 (5 years)</p> <p><i>2) Specialized accreditation:</i> Independent Agency for accreditation and rating, certificate №12018901, date of issue: 21.12.2019, validity of accreditation: 20.12.2023 (5 years)</p>
<b>Rating of the educational program</b>	1) IAAR – 4th place-2016, 2017, 2018, 2019
<b>The total amount of academic credits</b>	120
<b>Study duration</b>	2 years

### 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 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:**

- Self-guided learners and reflexive practitioners
- Responsible personalities with moral and ethical values
- Professionals with deep subject knowledge and digital skills
- Creative and critical thinkers and excellent team players and communicators
- Adaptive leaders in teaching and learning
- Diverse, inclusive and for equality of opportunity in society

**1.3. THE RATIONALE BEHIND THE EDUCATION PROGRAM**

Kazan Federal University - 75 %

Saint Petersburg state University - 75 %

**1.4. DISTINCTIVE FEATURES OF THE EDUCATIONAL PROGRAM**

Academic mobility	Universitet Niigde Turkey
-------------------	---------------------------

**1.5. GRADUATE CAREER OPPORTUNITIES**

**Types of Professional Activity:** A graduate of the doctoral program in the specialty 7M05302-Chemistry can perform the following types of professional activities:

- organizational and technological;
- scientific research;
- production and management;
- educational (pedagogical);
- socio-pedagogical

**1.6. AREAS OF PROFESSIONAL COMPETENCE****Employment Opportunity:**

Organizations that can employ a graduate of the bottom OP:

- 1) organizations of science: scientific, research centers in the field of chemistry, biochemistry;
- 2) management organizations: state management bodies, organizations of various forms of ownership that use chemical and biological research methods in their work.

**The Educational Program is Developed on the Basis of:**

1) Professional standard «Teacher» approved by the order of the Chairman of the Board of the National Chamber of entrepreneurs of the Republic of Kazakhstan «Atameken» No. 133 dated June 8, 2017.

**1.7. EDUCATIONAL PROGRAM LEARNING OUTCOMES:**

**LO 1** - recognize themselves as citizens of the world and responsible members of the digital society, promote the safe use of digital information and technologies, compliance with ethical and legal standards.

**LO 2** – use the principles of self-regulation, are reflective in all aspects of life, adhere to an active lifestyle, demonstrate openness to new knowledge, and have an exploratory inquisitiveness to receive and analyze information.

**LO 3** – able to easily communicate in different communities, in 3 languages, have the skills to effectively convey ideas, know how to manage a team and be part of it, create an inclusive environment, are adaptive and open to new knowledge. **LO4** Capable of complex analysis and forming judgments about global environmental and economic problems and rational use of natural resources.

**LO5** Possesses communication technologies, scientific rhetoric skills, and communication strategies.

**LO6** Has an understanding of the system of fundamental chemical concepts and methodological aspects of chemistry, their role in the General professional training of chemists.

**LO7** Has research and digital skills.

**LO8** Conducts original research that expands the scope of existing knowledge.

### **Graduate Profile**

#### ***KazNWTTU Graduate Attributes:***

AG1 – Deep professional knowledge and understanding of the field of study;

AG2 – Emotional and social intelligence;

AG3 – Adaptive to global challenges;

AG4 – Leadership skills;

AG5 – Entrepreneurial qualities, can identify and solve problems;

AG6 – Demonstration of innovative thinking.

#### ***Matrix of Correlation of Learning Outcomes for the EP and the Attribute Graduates:***

	LO1	LO2	LO3	LO4	LO5	LO6	LO7	LO8
AG1			+					+
AG2		+				+		
AG3				+			+	
AG4								
AG5					+		+	
AG6				+				+