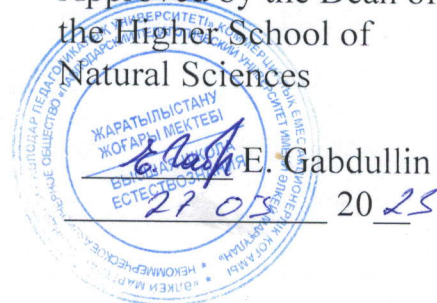


Ministry of Science and Higher Education of Kazakhstan Republic  
Pavlodar Pedagogical University named after Alkey Margulan

Approved by the Dean of  
the Higher School of  
Natural Sciences



**DEVELOPMENT PLAN**  
**Educational program 7M01551 “Biology”**  
**for 2023-2025**

Approved at the meeting  
Quality Committee  
from 27.03 2025,  
protocol No. 5

Pavlodar

## **Analysis of the educational program 7M01551 " Biology"**

The educational program 7M01551 "Biology" was developed in accordance with the State Educational Standard of the Republic of Kazakhstan, the Professional Standard of a Teacher, the National Qualifications Framework, and is consistent with the Dublin descriptors and the European Qualifications Framework.

The educational program is formed on the basis of a competency-based approach to design and has a modular format.

Requirements for admission of students to an educational program are determined by the Standard Rules for Admission to Study in Educational Organizations Implementing Educational Programs of Higher and (or) Postgraduate Education.

Applicants entering the educational program (EP) take the Comprehensive Testing (CT).

The possibility of further continuing education is doctoral studies in the EP "Biology".

Degree awarded: Master of Pedagogical Sciences in educational program 7M01551 " Biology " (scientific and pedagogical direction) .

**The goal of the educational program 7M01551 "Biology" is** to prepare a highly qualified biology teacher who is able to formulate and solve modern scientific and practical problems, and successfully carry out pedagogical (including at the university ) , research and management activities.

### **EP tasks:**

- education and formation of a comprehensively developed personality of the student;
- formation of systematized knowledge in the field of biology;
- organization of the pedagogical process in biology at the modern scientific level;
- teaching a biology course using international teaching programs;
- carrying out scientific research and design work.

The objects of professional activity of the Master of Pedagogical Sciences in the educational program " Biology " (scientific and pedagogical direction) are the pedagogical process in organizations of secondary, technical, vocational and higher education of all types and types, regardless of forms of ownership and departmental subordination.

The subject of professional activity of the Master of Pedagogical Sciences in the educational program " Biology " (scientific and pedagogical direction) is the planning and organization of educational activities of students using innovative psychological and pedagogical methods and means.

The structure and content of the educational program 6B01551 "Biology" was developed with the participation of highly qualified teaching staff of the university.

The EP development plan is formed taking into account the availability of financial, information, labor, material and technical resources, and is based on the mission of the university in accordance with the principles, goals, and objectives. Tasks for the implementation of the EP are discussed annually at a meeting of the

Higher School of Economics and approved by the Council of the Higher School of Economics. schools. The EP development plan is consistent with the activities of the PPU Development Strategy for 2020-2024, which is focused on achieving the goals and key indicators defined by the Strategic Plans of the PPU, the Ministry of Education and Science of the Republic of Kazakhstan, and the State Education Development Program of the Republic of Kazakhstan. The head of the EP analyzes the results of monitoring and periodic evaluation of the EP development plan, which provides for:

- Changing needs of society and the professional environment.
- Analysis of student performance.
- Graduation and employment.
- Employers' satisfaction with the quality of graduates' training.
- Compliance of the educational environment and student support services with the goals of the educational program.
- Student satisfaction with the content of EP training.

In order to fully inform all stakeholders about the results of the implementation of the quality assurance policy 7M0155 1 “Biology” Meetings are held with the invitation of employers and students. Also, modular educational programs and plans for the development of EP are communicated to interested parties and employers for review through the website of the higher school.

To improve the quality of EP training, teachers widely use innovative teaching methods: practical work in most disciplines is carried out using computer equipment and specialized software. There are specialized rooms and laboratories.

In order to effectively implement the educational program, constantly is being carried out work on the implementation of active and innovative teaching methods , which helps undergraduates learn active ways of acquiring new knowledge, allows them to master a higher level of social activity, also stimulates the creative abilities of students and helps to form functional literacy.

**Educational program development plan 7M01551 Biology  
at 2023 -2025**


No p/p	Events	Period of execution	Responsible	Mechanism implementation
1	External assessment of the quality of the university's activities and the satisfaction of consumers of educational services	February 2024 2025	Tulindinova G.K., Geldymamedov a E.A.	Preparation for post-accreditation monitoring of the results of the implementation of the educational program (every two years)
2	Implementation of the policy of admission and retention of undergraduates	2023-2024, 2024-2025 academic year	Tulindinova G.K., Asylbekova G.E.	Bring the indicative recruitment plan for master's students to 15 people
3		2023-2024, 2024-2025 academic year	Tulindinova G.K., Asylbekova G.E.	The share of students studying under state orders from the total number of undergraduates is up to 50%.
4		2023-2024, 2024-2025 academic year	Tulindinova G.K., Asylbekova G.E.	Ensuring the safety of the contingent of undergraduates 100%.
5	Professional guidance, agitation, early profiling of doctoral and master's students of PSPU and other universities	2023-2024 academic year	Tulindinova G.K. , Asylbekova G.E., Korogod N.P.	The share of bachelor's and master's degree students covered by career guidance activities is up to 100%
6		2023-2024, 2024-2025 academic year	Tulindinova G.K. , Asylbekova G.E., Korogod N.P.	Annual formation of a base of PPU graduates focused on further postgraduate education (during the academic year)
7		2023-2024, 2024-2025 academic year	Tulindinova G.K. , Asylbekova G.E., Korogod N.P.	Conducting image publications in the media, appearances on TV and radio up to 7 events per year , maintaining your own social networks (Instagram).
8	Providing the labor market with competitive specialists	2023-2024, 2024-2025 academic year	Tulindinova G.K. , Asylbekova G.E., Korogod N.P.	The share of graduates who studied under the state educational order and were employed in the first year after graduation in their specialty is up to 100%
9		2023-2024, 2024-2025 academic year	Tulindinova G.K. , Asylbekova G.E. , Korogod	Master's student performance up to 100%

			N.P.	
10	Modernization of the content of higher education in the context of global trends	May 2024	Tulindinova G.K., Shakeneva D.K.-K.	An educational program developed on the basis of professional standards.
		May 2024 May 2024	Tulindinova G.K., Shakeneva D.K.-K.	Update of elective disciplines introduced into educational programs taking into account the recommendations of employers
12		2023-2024, 2024-2025 academic year	Tulindinova G.K., Shakeneva D.K.-K.	Adjusting the content of educational programs taking into account the transition to updated educational content
15		September 2023	Tulindinova G.K., Baymurzina B.Zh.	Increase the number of teaching staff who speak the state language at the level of teaching academic disciplines, from the total number of full-time teaching staff to 75%
16	Information and library resources	June 2024 June 2025	Korogod N.P., Tulindinova G.K.	Number of digital educational resources developed - electronic educational publications 1 per year.
21	Ensuring the contribution of science to accelerated economic diversification and sustainable development of the country	December 2024	Tulindinova G.K., Zhumabekova B.K.	Number of laboratories certified and accredited by accreditation and certification centers (1)
22		2023-2024, 2024-2025 academic year	Tulindinova G.K., Korogod N.P., Zhumabekova B.K.	Participation in competitive events held at the university and stimulating the research activities of young scientists
23		2023-2024, 2024-2025 academic year	Tulindinova G.K., Zhumabekova B.K.	Conducting joint scientific research with universities and research centers in Kazakhstan and abroad
24		2023-2024, 2024-2025 academic year	Tulindinova G.K., Zhumabekova B.K.	Share of teaching staff participating in the implementation of fundamental and applied programs (5% of teaching staff)
25		2023-2024, 2024-2025 academic year	Tulindinova G.K., Korogod N.P., Zhumabekova B.K.	The share of publications in scientific journals with a non-zero impact factor is 1 per year
26		2023-2024, 2024-2025 academic year	Tulindinova G.K., Korogod N.P.	Number of published monographs based on the results of scientific research – 1 monograph per year
27		2023-2024,	Tulindinova	The number of master's degree

		2024-2025 academic year	G.K., Korogod N.P.	winners (awarded first, second and third degrees) of republican and international scientific conferences, competitions - 1 per year
28		2023-2024, 2024-2025 academic year	Tulindinova G.K., Korogod N.P.	The share of full-time undergraduates involved in the scientific activities of the university is 100 %
29	Increasing civic activity of youth and nurturing new Kazakhstani patriotism in the context of the national idea “Mangilik El”	2023-2024, 2024-2025 academic year	Aliyasova V.N.	Carrying out events aimed at promoting the idea of “Mangilik El” and fulfilling the objectives of the Messages of the President of the Republic of Kazakhstan (training seminars, round tables, promotions, meetings, etc.) – 3 events per year
thirty		2023-2024, 2024-2025 academic year	Aliyasova V.N.	Conducting explanatory work on the issue of combating corruption at the university with the involvement of authorized government bodies and youth organizations of the university
31		2023-2024, 2024-2025 academic year	Aliyasova V.N.	Carrying out a set of awareness-raising activities to prevent crime and disseminate the ideas of destructive religious sects among young people with the involvement of law enforcement agencies and the clergy (training seminars, round tables, actions, meetings, etc.)
32	Coverage of youth with cultural, leisure and preventive activities to reduce social risks	2023-2024, 2024-2025 academic year	Aliyasova V.N.	The share of undergraduates involved in the work of clubs is 30%
33		2023-2024, 2024-2025 academic year	Aliyasova V.N.	The share of undergraduates involved in the work of sports sections is 30%
34		2023-2024, 2024-2025 academic year	Aliyasova V.N.	The share of undergraduates participating in regional, national and international creative competitions, shows, intellectual games, sports competitions and tournaments is 50%
35	Strengthening human resources and increasing labor efficiency	2023-2024, 2024-2025 academic year	Tulindinova G.K., Kabieva S.Zh.	Staffing of the teaching staff according to the staffing schedule is 100%
36		2023-2024, 2024-2025 academic year	Tulindinova G.K., Kabieva S.Zh.	Staffing of full-time teaching staff of EP from the total number of employees, including in each area of training 100%

37		2023-2024, 2024-2025 academic year	Tulindinova G.K., Kabieva S.Zh.	100% staffing of teaching staff of EP with basic education
38		2023-2024, 2024-2025 academic year	Tulindinova G.K., Kabieva S.Zh.	Staffing of OB teaching staff with academic degrees and titles from regular teaching staff is 100%
39	Increasing the scientific potential and level of methodological and fundamental training of university teaching staff through advanced training, internships in scientific centers of the republic and abroad	2023-2024, 2024-2025 academic year	Korogod N.P., Tulindinova G.K.	Number of teaching staff who have undergone advanced training within the country at the expense of the state budget (at least 2 teaching staff annually)
Increasing the share of teaching staff of EP that meet the requirements for supervision of master's theses (at least 6 teaching staff)				

Head of the educational program  G. Tulindinova

Chairman of the Quality Committee  
of the Higher School of Natural Science  S. Kabieva