

AL-FARABI KAZAKH NATIONAL UNIVERSITY

Approved at the meeting of the Academic  
Council of the Faculty of Medicine and Health  
Protocol № 8, 2022 y.



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8D01 Pedagogical sciences  
(Code and area of education)

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8D014 Teacher training with subject specialization in general development  
(Code and direction of training)

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8D01401 Physical Culture and Sport  
(Code and name of the educational program)

Almaty, 2022 y.

**PASSPORT  
OF THE EDUCATIONAL PROGRAM**

**8D01401 PHYSICAL CULTURE AND SPORTS**

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(Code and name of the educational program)

**Coordinator:**



**Madiyeva G.B.a**

**Developers:**



**Madiyeva G.B.  
Ongarbaeva D.T.**

<b>1. General characteristics of the educational program</b>	
<b>Registration number</b>	
<b>Code and classification of the field of education</b>	8D01 Pedagogical sciences
<b>Code and classification of training areas</b>	8D014 Teacher training with subject specialization in general development
<b>Name of educational program</b>	Physical Culture and Sport
<b>Availability of an appendix to the license for the direction of training</b>	AB 0137355, Order № 924 ESMC MES RK of 3.02.2010
<b>1.1 The goal of the EP</b>	The purpose of the educational program is the high-quality training of specialists in physical culture and sports for educational organizations, management activities in the highest levels of government with various forms of ownership and is aimed at forming the personality of a specialist who is ready for scientific, educational, research and scientific and pedagogical activities in physical culture and sports at the university and sports of higher achievements.
<b>1.2 Key indicators of EP</b>	<u>Type of OP: Doctoral PhD</u> <u>Dates of OP: 3 years</u> <u>Forms of study: full-time</u> <u>Labor input: 180 academic credits</u> <u>Awarded degree: Doctor of Philosophy (PhD) in the educational program "8D014-01 Physical Culture and Sports"</u> <u>Type of OP:</u> <u>Operating OP;</u>
<b>1.3 Description of the advantages and distinctive features of the EP in terms of positioning in the educational services market</b>	<u>Distinctive features of EP:</u> <ul style="list-style-type: none"> <li>• An in-depth study of the disciplines of the specialty "Physical culture and sport" in the system of higher and postgraduate education and research</li> <li>• Fundamental training in the field of physical culture and sports, as well as the possibility of using the latest developments in the field of science in their research;</li> <li>• Effectiveness and quality of training, allowing doctoral students to subsequently successfully engage in scientific, pedagogical and management activities;</li> <li>• Financing the participation of doctoral students in international scientific conferences, publication of scientific articles in international scientific journals.</li> <li>• The University regularly organizes scientific seminars and scientific conferences. Teachers and students actively participate in national and international scientific conferences. This makes it possible for doctoral students to work on a scientific basis and provides stable academic advanced training.</li> </ul> <u>Availability of accreditation OP: Yes</u> <u>International accreditation</u> <u>Name of accreditation body: ACQUIN</u>

	<p><u>Validity of accreditation: until 09/30/2021</u>  According to the results of the rating of educational programs among the universities of Kazakhstan takes the place:  NAAR - 2 place  IKAOKA - 2 place  Joint EP (JEP)  University partner (JEP):  Double Degree EP (DDEP)  University partner (DDEP):  <u>Material and technical base of EP:</u>  To implement the educational program at the faculty there are laboratories equipped with modern equipment for laboratory work in biomedical disciplines. To conduct practical classes in the disciplines of specialization, as well as training sessions to improve sports skills at the university there are: gyms - 6, gyms - 3, gyms - 2, medical room, stadium, outdoor sports grounds - 2, tennis court, swimming pool  <u>Personnel potential:</u> Doctoral students are provided with professional training: 2 Doctors of Sciences, 1 Doctor of Phd, 4 Candidates of Sciences.  <u>Базы практик:</u> Department of Physical Education and Sports KazNU. Al-Farabi, National Scientific and Practical Center of Physical Culture of the Ministry of Education and Science of the Republic of Kazakhstan. National Scientific and Practical Center for Correctional Pedagogy, Center for Inclusive Education for universities of the Republic of Kazakhstan and preventive suicidology  <u>Academic mobility.</u> The department is a member of the Coordination Scientific and Methodological Center of Physical Education Departments at the Eurasian Association of Universities (KIMC EAU at the Lomonosov Moscow State University), Actively cooperates with many foreign higher educational institutions:</p> <ul style="list-style-type: none"> <li>• East Carolina University, Developmental Motor Lab(USA)</li> <li>• Vilnius Pedagogical University</li> <li>• Saint-Petersburg State University of Engineering and Economics</li> </ul> <p>For PhD students of KazNU after al-Farabi, invited foreign professors annually lecture, Doctoral students KazNU in the course of work on dissertation research pass obligatory scientific internship with foreign scientific leaders from leading scientific and educational centers.  Comparison with similar programs of foreign universities</p> <ul style="list-style-type: none"> <li>• University of Alberta (Canada),</li> <li>• Vilnius Pedagogical University</li> <li>• Saint-Petersburg State University of Engineering and Economics</li> </ul>
<b>2. Qualification requirements in the format of learning outcomes</b>	
<b>2.1 Expected learning outcomes EP</b>	<p>Upon completion of this OP, it is expected that bachelors will be able to:</p> <ol style="list-style-type: none"> <li><b>1.</b> analyze and summarize information on the current problem</li> </ol>

of the theory and methodology of physical culture and be guided in the general laws of the functioning of physical culture to improve the activities of a teacher, researcher or trainer in the field of physical culture and sports, as well as evaluate the effectiveness of performance indicators of a sports facility (A1);

**2.** demonstrate competence in the training of specialists of higher educational institutions and the activities of specialists in physical culture and sports, management of sports facilities in the sports industry (A2);

**3.** to carry out an examination of scientific projects and research in the field of physical culture and sports, plan and predict their further professional development (A3).

**4.** choose and effectively use modern research methodology in the field of physical culture and sports(B1)

**5.** transfer scientific information using modern information and innovative technologies in the field of physical culture and sports. (B2)

**6.** use complex methods of control (pedagogical, physiological, psychological) for the effectiveness of training and management of the training process, preparedness of highly skilled students and athletes and people involved in physical culture and sports.the level of sports qualifications and use these features when planning training sessions in schools, sports schools and national teams in preparing for competitions. (B3)

**7.** to professionally plan and organize mass sports and recreational events and sports competitions; conduct high-quality training and training sessions using research methods and modern innovative technologies, create and analyze models for the development of a sports facility (B4)

**8.** to critically analyze the features in training and competitive activity, to plan and program the specific content of various forms of the system of long-term sports training. (B5)

**9.** to evaluate the effects of physical exercises of varying intensity and bioenergy focus on body systems in individuals of different gender and level of athletic qualification in order to use this data when planning training sessions in physical culture at the university and in high-performance sports; (C1)

**10.** to contribute through the original research on the scientific support of the educational process in physical culture in the higher educational institution and the training of athletes of different qualifications. (C2)

**11.** to conduct a dialogue on problems in the field of physical culture, rehabilitation and scientific support for the training of athletes in top-level sports and to communicate their knowledge and achievements to colleagues, the scientific community and the general public (C3) ;

**12.** work with scientific, scientific-methodical and reference books, with spreadsheets and databases obtained in the process of own experimental and other scientific studies of athletes (D)

**2.2 Expected results for each module EP**  
*(in accordance with the Guide to the description of learning outcomes).*

<p><b>Название модуля</b></p> <p><b>Scientific-Research tools</b></p>	<p>Upon completion of this program, it is expected that the doctoral students will be able to:</p> <ul style="list-style-type: none"> <li>• demonstrate systemic knowledge of the achievements of domestic and foreign science in the field of sports and related fields of knowledge</li> <li>• choose the methodology of systemic, model, classification and other modern cognitive approaches</li> <li>• present methods for testing statistical hypotheses for quantitative and qualitative data and use them in solving relevant research problems</li> <li>• use modern scientific and theoretical knowledge in practice to identify trends in the development of physical culture in the future</li> <li>• to build the methodology of research work and explain the logic of building scientific research in situations typical for the field of physical culture and sports</li> <li>• to analyze modern methodological principles and methodological methods of research in the field of physical culture and sports and in matters of university training of specialists</li> <li>• to develop research projects on topical issues of education and present the results in the form of presentations, articles, etc.</li> </ul>
<p><b>Current Challenges to the system of scientific knowledge about the physical culture and sports</b></p>	<p>Upon completion of this program, it is expected that the doctoral students will be able to:</p> <ul style="list-style-type: none"> <li>• independently identify and form actual problems in the field of physical culture and sports.</li> <li>• analysis, systematization and generalization of the results of scientific research in the field of education through the use of complex research methods in solving specific research problems;</li> <li>• to select and use methods of statistical processing and analysis of data obtained as a result of scientific research in the field of physical culture and sports</li> <li>• work with scientific and educational periodicals and literature</li> </ul>
<p><b>Modern technologies of sports formation</b></p>	<p>Upon completion of this program, it is expected that the doctoral students will be able to:</p> <ul style="list-style-type: none"> <li>• free guided in modern technology acquisition, processing, storage and dissemination of scientific information; free guided the complex problems of the modern science of physical culture and sports and related sciences;</li> <li>• able to analyze the kinds of educational technologies based on knowledge; knows the modern types of educational technologies in order to build the learning process;</li> <li>• to develop training plans and programs of specific occupations; provide training on physical training with students in educational institutions, organize extra-curricular sports and athletic performance.</li> <li>• to carry out research project activities in the field of physical</li> </ul>

	culture and sports, to present its results;
<b>Experiments and statistics in physical culture</b>	<p>Upon completion of this program, it is expected that the doctoral students will be able to:</p> <ul style="list-style-type: none"> <li>• demonstrate knowledge the methods of analysis of relations (correlation), and depending on the type of evidence from one or more features (regression analysis) and be able to apply them in practice; basic methods of multivariate statistics.</li> <li>• choose and apply to prepare data for statistical analysis; able to select and apply specific methods for solving formulated statistical problems; able to correctly interpret the results obtained as a result of statistical methods;</li> <li>• determine the basic idea of sampling study species distribution of the studied traits and basic descriptive statistics of quantitative and qualitative data;. work with databases and publicly available materials of state structures, international organizations</li> <li>• demonstrate skills the technology statistical analysis of data using the application package STATISTICA; analyze, summarize and systematize scientific information</li> </ul>
<b>Sports facility management</b>	<p>Upon completion of this program, it is expected that the doctoral students will be able to:</p> <ul style="list-style-type: none"> <li>• demonstrate systematic knowledge of the basics of design, construction and operation of sports facilities, design and regulatory and technical documentation;</li> <li>• to analyze the effectiveness of performance indicators of the sports facility;</li> <li>• create models of a sports facility;</li> <li>• develop a project for the development of a sports facility</li> </ul>
<b>History and methodology of scientific research in the field of physical culture and sports</b>	<p>Upon completion of this program, it is expected that the doctoral students will be able to:</p> <ul style="list-style-type: none"> <li>• identify patterns and trends in the development of science in the field of physical culture and sports critically reflect and adapt the acquired knowledge to solve scientific and professional tasks;</li> <li>• determine the basic stages of development of physical education and sport of his people in the context of world culture,</li> <li>• applies the skills of scientific and methodological activities, and basic knowledge of the theory of physical training to solve specific problems arising in the process of physical exercise</li> <li>• critically interpret and adapt the knowledge gained to solve scientific and professional problems;</li> <li>• detect the laws of development of physical skills and motor skills subjects of professional sports activity, means and methods of physical culture of human rights.</li> </ul>
<b>Modeling of training process of training highly skilled athletes</b>	<p>Upon completion of this program, it is expected that the doctoral students will be able to:</p> <ul style="list-style-type: none"> <li>• determine the features of the practical implementation of measures of the system of psychological support; analyze</li> </ul>



	<p>psychological phenomena in training and competitive activities;</p> <ul style="list-style-type: none"> <li>• determine characteristics of psychological phenomena in training and competitive activity, especially the planning and programming the specific content of the various forms of psychological support.</li> <li>• carry out research project activities in the field of sports training psychology, present its results;</li> <li>• carry out research project activities in the field of sports training psychology, present its results</li> </ul>
<b>Specific principles of training in the sport</b>	<p>Upon completion of this program, it is expected that the doctoral students will be able to:</p> <ul style="list-style-type: none"> <li>• to detect the principles of the hierarchy in the system of physical education; to reproduce the basic provisions of the general methodological and specific principles of physical education;</li> <li>• applies the skills of scientific and methodological activities, and basic knowledge of the theory of physical training to solve specific problems arising in the process of physical exercise;</li> <li>• to consider the structure and specificity of educational activities in the process of solving the problems of physical education and sports training various contingents;</li> <li>• analyze, summarize and systematize scientific information</li> </ul>
<b>Model of preparation and of professional activity of the teacher-coach</b>	<p>Upon completion of this program, it is expected that the doctoral students will be able to:</p> <ul style="list-style-type: none"> <li>• demonstrate knowledge the theoretical basis and pedagogical conditions of formation of professional competence of future teachers-trainers;</li> <li>• able to creatively implement physical education in professional work, family life</li> <li>• able to determine the content and features of the activities of students (athletes) for different age and sex</li> <li>• put forward, argue and solve scientific problems using the achievements of modern information culture</li> </ul>
<b>3. Areas of professional activity of the graduate</b>	
<b>3.1 Planned area of professional activity of the graduate</b>	<p>The professional activity of PhD doctors provides for educational (pedagogical), coaching (sports) and scientific orientation:</p> <ul style="list-style-type: none"> <li>• <u>Educational (pedagogical) orientation:</u> <ul style="list-style-type: none"> <li>-educational activity is associated with the organization of the process of physical education, physical training, education of physical culture of the individual, the formation of a healthy lifestyle in higher and secondary educational institutions and various organizations, as a specialist in FC &amp; S;</li> <li>- as a scientific adviser for the harmonious development of the population of physical, volitional qualities, skills and abilities, the need to strengthen health, improve body forms through physical exercises, tourism tools, the use of hygienic measures and the use of natural forces of nature;</li> </ul> </li> <li>• <u>coaching (sports):</u></li> </ul>

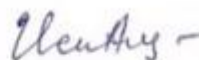
	<p>- as a coach of national teams for a selected sport.</p> <ul style="list-style-type: none"> <li>• <u>scientific orientation:</u></li> </ul> <p>- scientific research activity is related to the conduct of scientific research as a research worker at the research institute in the field of physical culture and methodologist for scientific and methodological support in the sport of higher achievements.</p>
<p><b>3.2 Types of activity (professions) for which the graduate of the EP is mainly preparing</b></p>	<p>Training in the field of professional activity includes the following activities, professions, and qualification levels (to describe the activities in accordance with the professional standard):</p> <ul style="list-style-type: none"> <li>• Systems of higher and postgraduate education,</li> <li>• Work as a research fellow of the laboratory and scientific research institute in the field of physical culture, rehabilitation,</li> <li>• Work as a trainer - consultant on methodological and scientific support of training athletes in the sport of higher achievements,</li> <li>• management activities in senior public administration with different forms of property..</li> </ul>
<p><b>3.3 Analysis and needs of the labor market in graduates of this EP</b></p>	<p>Key employers for the future employment of graduates are:</p> <ol style="list-style-type: none"> <li>1. Department of Physical Education and Sports, KazNU al-farabi</li> <li>2. Departments of physical education of higher educational institutions</li> <li>3. National Scientific and Practical Center of Physical Culture of the Ministry of Education and Science of the Republic of Kazakhstan</li> <li>4. Centers of Olympic training in sports.</li> <li>5. National Olympic Committee.</li> <li>6. Department of Physical Culture and Sports</li> <li>7. Schools of sportsmanship in sports</li> <li>8. Federation of sports of the Republic of Kazakhstan</li> </ol> <p>The educational program is relevant for state, public, private educational institutions; firms, physical culture and sports management bodies; research institutions of physical education, sports and biomedical profile, developing problems of physical and mental health, etc..</p>
<p><b>4. Requirements for the applicant</b></p>	<p>Admission Rules:</p> <ul style="list-style-type: none"> <li>• The previous minimum level of education of those wishing to master the educational programs of the doctoral studies is a <b>master's</b> program.</li> <li>• Наличие освоенных обязательных дисциплин-преквизитов: «Scientific and practical basis of physical culture and sports in the university», «Physiological basis for managing the functional readiness of athletes and those engaged in FC», «Theory, methodology and practice of a selected sport in the university», SRWM.</li> <li>• Propensity to scientific research activity (it is desirable to have scientific publications in authoritative scientific</li> </ul>

	<p>publications);</p> <ul style="list-style-type: none"><li>• The presence of the alleged scientific advisors (domestic and foreign).</li></ul> <p>Admission to doctoral PhD KazNU. Al-Farabi Kazakh National University is carried out in accordance with the Model Rules of admission to the organization of education, realizing professional training programs of postgraduate education,</p>
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Matrix of formation of competencies in the modules of the educational program

Module name	Program Learning Outcomes											
	1	2	3	4	5	6	7	8	9	10	11	12
<b>Scientific-Research tools</b>	A1			B1	B2					C2	C3	
<b>Current Challenges to the system of scientific knowledge about the physical culture and sports</b>	A1				B2					C2		D
<b>Modern technologies of sports formation</b>		A2				B3			C1		C3	
<b>Experiments and statistics in physical culture</b>			A3	B1			B4				C3	D
<b>Sports facility management</b>		A2	A3					B5				D
<b>History and methodology of scientific research in the field of physical culture and sports</b>	A1				B2		B4	B5	C1			
<b>Modeling of training process of training highly skilled athletes</b>						B3		B5			C3	D
<b>Specific principles of training in the sport</b>	A1	A2	A3		B2							D
<b>Model of preparation and of professional activity of the teacher-coach</b>			A3	B1			B4				C3	D

Head of the Department of Physical Education and Sports



A. Iskakova

Educational Program Coordinator  
"Physical culture and sport"

G. Madieva