

FACULTY ACHIEVEMENTS FOR THE 2023-2024 ACADEMIC YEAR

Content	Achievements
Functioning of the corporate management principles of the office of educational programs	<ul style="list-style-type: none"> – "Physics, mathematics and instrumentation" – 21 office teachers completed advanced training courses on "Inclusive Education in Higher Professional Education" in the amount of 72 hours; – 4 office teachers completed a 72-hour advanced training course on "Artificial Intelligence in the Educational Process"; – 3 office teachers completed advanced training courses "Modern methods of teaching and assessment for innovative educational programs" in the amount of 72 hours; – 2 office teachers completed a 72-hour advanced training course entitled "Inclusive education: teaching the blind and visually impaired using a Braille machine"; – 1 office teacher completed the advanced training course "Development of subject competencies in the discipline "Physics" within the framework of the updated educational content" in the amount of 72 hours; – 1 office teacher completed a 72-hour advanced training course on "Mathematical Methods of Electrodynamics"; – 1 office teacher completed the advanced training course "Development of subject competencies in the discipline "Non-destructive testing and technical diagnostics" in the amount of 72 hours; – 1 office teacher completed the advanced training course "Management in Higher Education. «Computer Science » – 27 office teachers completed advanced training courses on "Inclusive Education in Higher Professional Education" in the amount of 72 hours; – 20 teachers completed advanced training courses "Modern programming languages and software development technologies";

	<ul style="list-style-type: none"> – 9 office teachers completed advanced training courses “Artificial Intelligence in the Educational Process” in the amount of 72 hours; – 8 office teachers completed advanced training courses “Modern methods of teaching and assessment for innovative educational programs” in the amount of 72 hours; – 2 office teachers completed a 72-hour advanced training course entitled “Inclusive education: teaching the blind and visually impaired using a Braille machine”; – 11 office teachers completed advanced training courses on “Computer system security. Cloud technologies. Software for economic calculations” in the amount of 72 hours.
<p>Ensuring high quality of educational services provided in accordance with the best practices of universities</p>	<p>1. The office's educational programs are accredited by the Kazakhstan Association of Modern (Elite) Education (KAZSEE):</p> <ul style="list-style-type: none"> – 6B05301 – “Physics” – for the period from 25.12.2023 to 25.12.2028; – 6B05401 – “Mathematics” – for the period from 26.12.2023 to 25.12.2028; – 6B05402 – “Mechanics” – for the period from 12.26.2023 to 12.25.2028. <p>2. The office's educational programs are accredited by the Central Asian Association for Accreditation of Education (CAAEE):</p> <ul style="list-style-type: none"> – 7M07105 – “Instrument engineering” – for the period from 12.06.2024 to 11.06.2029; – 6B071112 – “Instrument engineering” – for the period from 12.06.2024 to 11.06.2029; – 7M05301 – Physics – for the period from 12.06.2024 to 11.06.2029; – 7M05401 – “Mathematics” – for the period from 12.06.2024 to 11.06.2029. <p>The office's educational programs are accredited by the Kazakhstan Association of Modern (Elite) Education (KAZSEE):</p> <ul style="list-style-type: none"> – 6B06103 – “Computer hardware and software” – for the period from 12.26.2023 to 12.25.2028; – 7M01501 – “Computer Science” – for the period from 12.26.2023 to 12.25.2028.
<p>Ensuring high quality methodological support for the educational process</p>	<ul style="list-style-type: none"> – 100% of the office disciplines are equipped with electronic educational and methodological complexes; – 4 teaching aids were developed and published by “Toraighyrov University”.
<p>Functioning of the educational process through research activities of the teaching staff</p>	<ul style="list-style-type: none"> – under the supervision of Associate Professor Zhumabekov A. Zh., research work is being carried out on grant funding for young scientists on scientific and (or) scientific and technical projects for 2023-2025 under IRN AP19576361 “Study of the influence of the plasmonic effect in nanocomposite materials of an ultraviolet detector”; – The journal Bulletin of Toraighyrov University, series “Physics, Mathematics and Computer

Science” (priority direction “Theoretical and Experimental Physics”) is included in the List of publications recommended by the Committee on the Development of Scientific and Technical Education of the Ministry of Education and Science of the Republic of Kazakhstan;

- 6 publications in scientific journals recommended by the Committee on Higher Professional Education of the Ministry of Higher Education of the Republic of Kazakhstan;

- 3 publications in scientific journals included in the international databases Web of Science and Scopus;

- 2 publications in internationally cited journals (in the Scopus database);

- 2 certificates of state registration of a computer program;

- 2 certificates of entry of information into the state register of rights to objects protected by copyright.

- under the leadership of assoc. Professor Tokzhigitova N.K. research work is being carried out on grant funding for young scientists for scientific and (or) scientific and technical projects for 2023-2025 according to IRN AR 19677291 “Kasiptik bagdar beru maksatynda zhogary sonyp okushylarynyn IT kuzyrlylyktaryn gamification arkyly zhasyryn bagalaudyn platformsyn azirleu”;

- under the guidance of postdoctoral fellow Alimova Zh.S. research work is being carried out under grant funding IRN AR14972847 “Derekerdegi aikyn emes baylanystardy anyktau men teren taldaudy zhuzege asyratyn algorithmi men computer bagdarlamasyn azirleu”;

- under the leadership of Professor Osanova N.N., research work is being carried out on grant financing of young scientists for scientific and (or) scientific and technical projects for 2024-2026 under the project No. AP23485289 “Methodology for developing a platform for massively open online courses as an effective tool for developing non-formal learning and providing accessible education”;

- under the supervision of Professor D.S. Naimanova, research work is being carried out on grant financing for young scientists on scientific and (or) scientific and technical projects for 2024-2026 under IRN AR 234898051 “Methodology of data mining to determine factors influencing the professional development of students of technical specialties”;

- 6 publications in scientific journals recommended by the Committee on Higher Professional Education of the Ministry of Higher Professional Education of the Republic of Kazakhstan;

- 2 certificates of state registration of a computer program;

- 13 publications in peer-reviewed foreign journals indexed by the Web of Science and Scopus databases;

- 40 publications in the materials of domestic conferences.

<p>Functioning of the educational process through students' research activities</p>	<ul style="list-style-type: none"> - 22 students completed courses on the following topics through the mass online education platform Coursera and received certificates: Introduction to Materials Science, Optics, Introduction to Quantum Mechanics; - On May 28-29, 2024, the team led by D.M. Zhangazinova took 5th place in the 2nd stage of the Republican Subject Olympiad in the field of training 6B054 "Mathematics and Statistics". - Students of the educational program 6B05301 – “Physics” participated in research competitions and won prizes: <ul style="list-style-type: none"> 1. IV International Research Competition “First Step into Big Science”: - Zhumadildinova Ayaulym Olzhabaevna – Diploma of the I degree; 2. II International Scientific Research Competition "For Science! For Action": - Elemes Birzhan Sayanuly – Diploma of the 1st degree; - Bauez Marat Askhatovich – Diploma of the 1st degree. - 80 students completed courses and received certificates through the mass online education platform Coursera. - In November 2023, the 4th “Regional Tournament Pavlodar Cyber Cup IV” was held together with the Akimat with a prize fund of 1 million tenge. - Academic mobility student of group CS-301 Kabzhenov Aibar Palacky University, Czech Republic. - - Organization and holding of the "XVI Republican Student Olympiad" in the field of training 6B061 "Information and Communication Technologies", April 2024. - - Conducting the Republican hackathon "Decentrathon" among those interested in the Pavlodar region, May 2024. - - Meetup on the use of blockchain by Aigerim Gilmanova - Bachelor of Electrical and Electronic Engineering at Nazarbayev University, Master of Robotics and Computer Vision at Innopolis University, product owners at Blockchain Center, senior lecturer of blockchain practice at Astana IT University, September 2023. - 38 students and postgraduates took part in the Scientific and Practical Conference “Satpayev Readings”. - - Conducting an Olympiad among school and college graduates in the discipline of Information Technology, October-November 2024.
<p>Formation of the contingent of students in educational programs</p>	<p>employment of graduates from the office's educational programs:</p> <ul style="list-style-type: none"> - 6B05301 “Physics” –100%, 7M05301 “Physics” – 100%; - 6B05401 “Mathematics” –100%, 7M05401 “Mathematics” – 100%;

- 6B071112 "Instrument engineering" – 75%, 7M071112 "Instrument engineering" –100%;
- 6B05402 "Mechanics" - 100%.
- 6B06103 "Computer hardware and software" - 88%, 7M01501 "Informatics" – 90%; 6B06102 "Informatics" – 100%, 7M06102 – Information systems – 90%;
- 6B06102 "Information systems" – 92%.

Dean of the Faculty of Computer Science



N.A. Ispulov

