TORAIGHYROV UNIVERSITY

QUALITY ACHIEVEMENTS

Department of Physics, Mathematics and Instrumentation
for the 2025–2026 academic year

Content of the objective	Criteria for achieving the objective
Operation of the corporate governance framework of the Department of Physics, Mathematics and Instrumentation	– 11 department lecturers completed the 72-hour professional development course "AI (Artificial Intelligence) Tools in Education and Science"; – 4 department lecturers completed the 72-hour professional development course "Methods and Techniques for Working with Students with Special Educational Needs"; – 4 department lecturers completed the 80-hour professional development course "Academic Leadership Institute: Artificial Intelligence and Sustainable University Transformation." – 1 department lecturer received a Letter of Appreciation from the Minister of Science and Higher Education of the Republic of Kazakhstan for a significant contribution to the development of education and science, dedicated work, and professional service.
Ensuring high-quality educational services in accordance with best university practices	1. The department's educational programs were accredited by the Kazakhstan Association for Modern (Elite) Education (KAZSEE): – 6B05301 Physics — 25 Dec 2023 to 25 Dec 2028; – 6B05401 Mathematics — 26 Dec 2023 to 25 Dec 2028; – 6B05402 Mechanics — 26 Dec 2023 to 25 Dec 2028. 2. The department's educational programs were accredited by the Central Asian Association for Accreditation of Education (CAAAE):

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	– 7M07105 Instrumentation — 12 Jun 2024 to 11 Jun 2029; – 6B071112 Instrumentation — 12 Jun 2024 to 11 Jun 2029; – 7M05301 Physics — 12 Jun 2024 to 11 Jun 2029; – 7M05401 Mathematics — 12 Jun 2024 to 11 Jun 2029. 3. The department's educational program was accredited by the Independent Agency for Accreditation and Quality Expertise in Education (ARQA): – 6B05303 Technical Physics — 24 Jun 2026 to 23 Jun 2031.
Ensuring high-quality methodological support for the educational process	The department's disciplines were 100% supplied with electronic educational and methodological packages.
Operation of the educational process through the research activities of the teaching staff	– the journal Bulletin of Toraighyrov University. Physics, Mathematics and Computer Science Series (priority area: Theoretical and Experimental Physics) was included in the List of Publications recommended by the Committee for Quality Assurance in Science and Higher Education of the Ministry of Science and Higher Education of the Republic of Kazakhstan; – Under the supervision of A. Zh. Zhumabekov, PhD, Professor, the research project implemented within the framework of grant funding for young scientists for 2023–2025, IRN AP19576361 "Investigation of the Influence of the Plasmonic Effect in Nanocomposite Materials of an Ultraviolet Detector," was successfully completed. Results of the research activities of the department's teaching staff: – 10 publications in scientific journals recommended by the Committee; – 3 publications in scientific journals indexed in Web of Science and Scopus; – 3 publications in internationally cited journals indexed in Scopus; – 3 certificates confirming the inclusion of information in the state register of rights to copyright-protected works.
Operation of the educational process through students' research activities	– first-year students completed training on the Huawei educational platform; second-, third- and fourth-year students and master's students trained on Coursera. All students and master's students successfully completed the first stage of the AI-Sana educational program. As a result, 129 learners were selected for its second stage; – students of the 6B05304 Physics and 6B07112 Instrumentation educational programs participated in research competitions and an academic

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	olympiad, where they won prizes: 1. Republican Research Competition: – Aitzmurat Aruzhan and Zholbarys Dariga — Third-Degree Diploma; – Aubakirova Zhaniya, Rakhayeva Aisana and Kairzhan Zhibek — First-Degree Diploma. 2. XVIII Republican Subject Olympiad among students of the B054 Physics program: – Abekova Nadezhda — Second-Degree Diploma. 3. A third-year student of the 6B05303 Technical Physics educational program, Meiram Ademau Armankyzy, was awarded the Z. Yerzhanov Scholarship.
Enrollment development for educational programs	Graduate employment rates by department educational program: – 6B05301 Physics — 100%, 7M05301 Physics — 100%; – 6B05401 Mathematics — 100%, 7M05401 Mathematics — 100%; – 6B071112 Instrumentation — 75%, 7M071112 Instrumentation — 100%; – 6B05402 Mechanics — 100%.

Head of the Department of Physics, Mathematics and Instrumentation **A. B. Iskakova**

Agreed:
Member of the Management Board for Academic Affairs – Vice-Rector **R. Zh. Nurgozhin**