

**QUALITY ACHIEVEMENTS
Department of "Biology and Ecology"
for the 2024–2025 academic year**

Field	Achievements
1 Academic work	Students of the 1 st – 2 nd year of the Educational program of a double bachelor's degree in the direction 6B05203 "Environmental protection and rational use of natural resources (Republic of Belarus), concluded between the Non-profit Joint Stock Company "Toraighyrov University" and the Belarusian State Technological University, study in the Republic of Belarus.
2 Academic and-methodological work	EMCOD in all disciplines and EMC have been developed for the educational programs of the department. 4 monographs and 4 teaching aids have been published.
3 Scientific work	<p>I The Department of Biology and Ecology is working on 3 projects:</p> <p>1) Program 217 "Development of Science", subprogram 102 "Grant Financing of Scientific Research", specifics 156 "Payment for Consulting Services and Research", priority "Ecology, Environment and Rational Nature Management" project on the topic: IRN AP23491050 Climate changes in forest ecosystems of the steppe and forest-steppe zones of Kazakhstan based on the content of carbon and hydrogen" No. 257 / GF24-26 / 2 dated September 9, 2024. Amount of funding for 2024: 34,960,162 (thirty-four million nine hundred sixty thousand one hundred sixty-two) tenge. Completion dates from 12.09.2024 to 31.12.2024. Amount of funding for 2025: 41,304,292 (forty-one million three hundred four thousand two hundred ninety-two) tenge. Completion dates from 06.01.2025 to 31.12.2025.</p> <p>2) Program 217 "Development of Science", subprogram 102 "Grant Financing of Scientific Research", specifics 156 "Payment for Consulting Services and Research", priority "Ecology, Environment and Rational Nature Management" project on the topic: IRN AP23485162Development of an innovative method for monitoring and early diagnosis of grain crop diseases using hyperspectral sensing technology" No. 257/GF24-26/3 dated September 9, 2024.Amount of funding for 2024: 33,988,148 (thirty-three million nine hundred eighty-eight thousand one hundred forty-eight) tenge. Completion dates from 12.09.2024 to 31.12.2024. Amount of funding for 2025: 42,917,063 (forty-two million nine hundred seventeen thousand sixty-three) tenge. Completion dates from 06.01.2025 to 31.12.2025.</p> <p>3) IRN AP25795423 "Geoinformation modeling and mapping of the distribution and stock of game mammal species in the northeast of Kazakhstan". Funding amount - 29,582,078 tenge, implementation period - 2025-2027. Performers working and studying at the Department of Biology and Ecology:</p> <p>a). Ualieva R.M. - Head (Professor); b). Mapitov N.B. - Head (Assist. Professor); c). Sergazinova Z.M. - Head (Assist. Professor).</p> <p>II Acts of implementation in the educational process and production - 7. Obtaining security documents for intellectual property objects - 9.</p>
4 Students' scientific research	The number of published articles on the department was 46, including 9 articles in the journals CCSES RK, Thomson Reuters, Scopus –11 articles, in the materials of domestic conferences – 24 articles, foreign conferences – 2 articles.

Discussed and approved at a meeting of the department (Minutes No. 1 dated August 28, 2025)

Head of the Department of Biology and Ecology

 A. Kaliyeva

