

Appendix 19. Personnel directory of the DP “Ecology”

Full name (in full)	Dzhunusbayev Serik Mutanovich e-mail: Serik_1971_10@mail.ru ; Scopus Author ID: 57782747000 ORCID: 0000-0003-0338-4006		
Position	<i>Associate Professor</i> Taught modules: M1 History of Kazakhstan		
Academic career	Basic Education: History and Pedagogy PhD of History	Shymkent Pedagogical Institute By decision of the Ministry of Education and Science of the Republic of Kazakhstan	1992 2006
Employment	Associate professor, Head of the department “History of Kazakhstan”	M. Auezov South Kazakhstan University	<i>From 2020 – to the present day</i>
Research and development projects over the past 5 years	Leading researcher in the 2022–2024 project AP14872068 “Study of Language Policy and Practice in the Turkestan Region in the Context of the Language Development Tasks of the Republic of Kazakhstan.”		
Industry collaboration over the past five years	Members of the editorial board of the republican scientific journal "QAZAQTANY".		
Patents and Copyright certificates	Author’s certificate No. 58827 dated May 28, 2025 — “ <i>Sacred Sites in Southern Kazakhstan: A Textbook</i> ”		
Key publications over the past five years	1.«The Image of Kazakh Society in the Studies of Russian Ethnographers during the Russian Empire: on the Example of Material Culture». Journal <i>Bylye Gody</i> , 2022. DOI: 10.13187/BG.2022.2.640 2.“Everyday models of interethnic interaction: Based on Sociological Research in Shymkent.” <i>International Research Journal</i> , 8(39), Part 4, 2022. 3.“Some Aspects of Ethnic Interaction in the Turkestan Region.” <i>Bulletin of History</i> , 4(107), 2022. 4.Modern History of Kazakhstan: Textbook. Shymkent: M. Auezov SKU, 2022, 138 p. 5. Sacred Sites in South Kazakhstan: Textbook. Shymkent: M. Auezov SKU, 2022, 138 p.		
Activities in specialized organizations over the the past five years	Chairman of the State Attestation Commission onr the discipline “History of Kazakhstan.” Participant in meetings and seminars of the working group for the Presidential Program of the Republic of Kazakhstan “Rukhani Zhandyru.”		

Full name (in full)	Torgautova Sholpan Ashiraliyevna e-mail: torgautova82@mail.ru ; https://orcid.org/0000-0001-5853-3879 Researcher ID: O-7353-2017		
Position	Associate Professor Taught modules: M 2.1 Abay Studies, M 2.2 Mukhtar Studies		
Academic career	Historian, history teacher Master of Science in History	Kh.A. Yassawi SKTU	2003 2006
Employment	Senior lecturer Chief of the office Chief specialist Chief manager Editor-in-chief and secretary Head	College “Femida” SKPU M. Auezov SKSU M. Auezov South Kazakhstan University Scientific publication - the republican scientific journal “QAZAQTANY” Scientific Center “History and Ethnology”	2003-2010 2010-2014 2015-2020 2020-2021 2019-2024 From 2024 to the present day
Research and development projects over the past 5 years	Leading researcher of the project “AP 14872068 - Study of language policy and practice in the Turkestan region in the context of the language development objectives of the Republic of Kazakhstan.” (2022-2024) Funding: 50 million tenge.		

Industry collaboration over the past five years	04.12.2020-05.06.2021 - MISD, KISD “Rukhani zhangyru” “Ozgerister saruarlary” - project accelerator - 36 hours, 2021 - RPO Association of Departments of the APK RK on the theme “Scientific support and methodological support in the sphere of interethnic relations: new approaches in the activities of the departments of the Assembly of the People of Kazakhstan” - 72 hours, 25.10-25.11.2023 Scientific internship - 144 hours.
Patents and Copyright certificates	1. Author's certificate No.4562 dated June 17, 2019, “Methodological Guidelines for the Design of a Research Project (in Technical, Pedagogical, Humanities, Philological, and Creative Fields)” 2. Author's certificate No.48008 dated June 28, 2024, “Abay studies” Textbook
Key publications over the past five years	1. The role of the Great Khanate of the Golden Horde in the formation of states, the role of Alash Khan in the formation of the national spirit in the history of the Kazakhs. “QAZAQSTAN” Republican scientific journal. 2 (22) 06 / 2024. pp. 15-23 2. Preparation of educational literature – “Fundamentals of National Self-Awareness.” pp. 593-596. Proceedings of the international scientific and practical conference. - Samarkand: “Samdchti” Publishing House, 2024.628P. held on May 29, 2024. 3.32-E The Abay’s Word: the main conditions for mastering science. pp. 306-307. Proceedings of the XXVII Republican student scientific conference on the theme “Vectors of Development of Youth Science” in the natural, technical, social, humanitarian and economic sciences. Vol. 6. April 4-5. M.Auezov SKU 2024. 3rd place in the international relations section. 4. Social and legal status of Kazakh girls and women according to the code of laws of 1885 “Karamola erezhesi” “QAZAQSTAN” republican scientific journal. 3 (23) 09 / 2024. P.5-18 5. Preparation of educational literature - “the foundations of national identity” Collection of works. III International Summer School for Teachers of Eurasian Countries “Quality of Education and the Rapprochement of Cultures. Theory and Practice of Developing Knowledge Societies”. September 10-12,2024 Almaty: Smart University Press, 2024. 122 p. P.81-84
Activities in specialized organizations over the past five years	1. Member of the RPO “Association of Chairs of the Assembly of the People of Kazakhstan” Shanyrak L.N. Gumilev ENU , Astana; 2. Member of scientific expert group ANK “Social agreement” Shymkent; 3. The head of the scientific group at the National Center “History and Ethnology” “Academy of Spiritual Revival “MIRAS” from among experienced teachers-scientists and qualified specialists

Full name (in full)	Tleulov Bolatbek Ernstovich e-mail: aleka2004@mail.ru		
Position	Head of the department “State and Legal Disciplines”, PhD of Pedagogy, Associate Professor Taught modules: M 2.3 Fundamentals of financial literacy, M 23.1 Ecosystem and law, M23.2 Entrepreneurship and financial literacy		
Academic career	Head of the department of “State and Legal Disciplines” Senior lecturer of the department, associate professor of the department “Theory of state and law” Dean of the Pedagogical Faculty, acting associate professor, department “Pedagogy and psychology” Head of the Center for Monitoring the Quality of Education and Distance Learning, acting Associate Professor of the department of “Civil Law Disciplines”	M. Auezov South Kazakhstan State University	<i>Years 2011-2025</i> 2021 – to the present day 2011-2021 2009-2010 2002-2009
Employment	<i>Position</i> individual lawyer, member of the Republican Bar association, member of the Shymkent Bar association	<i>Employer</i> Bar association of Shymkent city	<i>Period</i> 2011- to the present day
Research and development projects over the past 5 years	Theoretical and legal aspects of anti-corruption policy Legal mechanisms of formation of anti-corruption culture The potential of using artificial intelligence in identifying corruption risks. Open data and public procurement: analysis of the effectiveness of digital control.		

	Development of the legal educational module “Anti-corruption culture for university students”
Key publications over the past five years	<ol style="list-style-type: none"> 1. Features and prospects of the constitutional control body activity on constitutionalism formation in the Republic of Kazakhstan. BULTIC JOURNAL OF LAW & POLITICS A Journal of Vytautas Magnus University VOLUME 15, NUMBER 1 (2022) ISSN 2029-0454 pp. 1860-1875 2. Some issues of corruption prevention in the courts of the Republic of Kazakhstan. “BULLETIN OF GENERAL SCIENCE AND EDUCATION” No. 6(3)2024 Republican scientific journal. – Astana: Ministry of Information and Social Development of the Republic of Kazakhstan 2024 – 360 pages. pp. 306-309. 3. “Prevention of forest fires as a means of ensuring environmental order” Bulletin of the KAZNU Legal Series. No. 4 (112). 2024. Reference S.T.Tynybekov, S.B.Beysebayeva.,A.S.Sabyr, G.T.Muratova.,B.E.Tleulov 4. Some problems of typology of modern social state - Proceesings VI International Conference “Industrial Technologies and Engineering” ICITE, - 2019, Volume III (I) M. Auezov South Kazakhstan State University, Shymkent, Kazakhstan, October 24-25, 2019. 5. Features and prospects of the constitutional control body activity on constitutionalism formation in the Republic of Kazakhstan. BULTIC JOURNAL OF LAW & POLITICS A Journal of Vytautas Magnus University VOLUME 15, NUMBER 1 (2022) ISSN 2029-0454 pp. 1860-1875 6. Some issues of preventive corruption in the courts of the Republic of Kazakhstan. “BULLETIN OF GENERAL SCIENCES AND EDUCATION” No. 6(3)2024-P. 306-309.
Activities in specialized organizations over the the past five years	Individual lawyer, member of the Republican Bar association, member of the Shymkent Bar association

Full name (in full)	Ismailov Khairulla Bakhtiyarovych E-mail: ismailovkhh@mail.ru Scopus Author ID 55955116500 ORCID: 0000-0002-7733-125X		
Position	<i>PhD in Technical Sciences</i> Taught modules: M 2.4 Basics of artificial intelligence		
Academic career	<i>PhD in Technical Sciences</i> 05.17.08 – Process and apparatus of chemical technologies	M. Auezov South Kazakhstan State University	2003-2006
	Applied mathematics	M. Auezov South Kazakhstan State University	1998-2002
Employment	Lecturer, senior lecturer, associate professor of the department “Information systems and modeling”	M. Auezov SKU, Shymkent city	2002-to the present day
Research and development projects over the past 5 years	<i>SB SRW 21-01-01 – “Actual problems of scientific and technical and project support of modern information systems” of the department “Information systems and modeling” for 2021-2025.</i>		
Industry collaboration over the past five years	<ol style="list-style-type: none"> 1. Search and AI. Certificate No. : ICT20250406029751. Effective Date : 2025-04-06. Huawei. 2. Overview of AI. Certificate No. : ICT20250404064190 Effective Date : 2025-04-04/ Huawei. 		
Patents and Copyright certificates	1. Author's certificate No.0408 dated 05.03.2016. “Logistics information system of the distribution of material resources of the enterprise (computer program)”		
Key publications over the past five years	<ol style="list-style-type: none"> 1. Mathematical Modeling and Algorithm for Calculation of Thermocatalytic Process of Producing Nanomaterial // Indonesian Journal of Electrical Engineering and Computer Science. Vol. 23, No. 3, September 2021, pp. 1590~1601. ISSN: 2502-4752, DOI: 10.11591/ijeecs.v23.i3.pp1590-1601. 2. Mathematical and computer simulation of particle redis-tribution and inertial swarm-ing in dispersed systems // Indonesian Journal of Electrical Engineering and Computer 		

	<p>Science. Vol. 28, No.2, November 2022, pp. 909~917. ISSN: 2502-4752, DOI: 10.11591/ijeeecs.v28.i2.pp909-917.</p> <p>3. Creation of the simulation model of transportation for the organization and optimization of a transport logistics enterprise// Journal “Vestnik KAZNITU”, No.4 (140), 2020. - P. 179-187.</p> <p>4. Modeling of hydrodynamics and heat exchange in heat exchangers with turbulators // Vestnik Abay KazNPU. Series: Phys.-math.sciences. 88(4), 2024. https://doi.org/10.51889/2959-5894.2024.88.4.009.</p> <p>5. Mathematical modeling and calculation of minimal gas energy for dispersing liquid into droplets // Vestnik of the National Engineering Academy of the Republic of Kazakhstan. Mathematical sciences series. 2024. No. 4 (94). https://doi.org/10.47533/2024.1606-146X.022. - P. 263-274.</p> <p>6. Basic data management system. Study guide. Almaty: Typography “Evero”, 2022. - 232 p. Approved by the academic council of M. Auezov SKU, protocol No. 13 dated 31.03.2022. ISBN 978-601-352-666-9.</p>
Activities in specialized organizations over the the past five years	Member of the Educational and Methodological Association of the Republican Educational and Methodological Council “Information and Communication Technologies”, 2024.

Full name (in full)	Utegenova Gulzira Zhaksylykovna E-mail: gulzi_2615@mail.ru https://orcid.org/0009-0007-4750-9006																		
Position	<i>Associate professor</i> Taught modules: M 3 Kazakh (Russian) language, M 19 Professional Kazakh (Russian) language																		
Academic career	<table border="0"> <tr> <td>PhD of Philology</td> <td>M. Auezov South</td> <td>2007</td> </tr> <tr> <td>10.02.06-Turkic languages</td> <td>Kazakhstan State</td> <td></td> </tr> <tr> <td><i>Master of Philology</i></td> <td>University</td> <td>2006</td> </tr> <tr> <td></td> <td>International</td> <td></td> </tr> <tr> <td><i>Philology</i></td> <td>Kazakh-Turkish</td> <td></td> </tr> <tr> <td></td> <td>University</td> <td>2004</td> </tr> </table>	PhD of Philology	M. Auezov South	2007	10.02.06-Turkic languages	Kazakhstan State		<i>Master of Philology</i>	University	2006		International		<i>Philology</i>	Kazakh-Turkish			University	2004
PhD of Philology	M. Auezov South	2007																	
10.02.06-Turkic languages	Kazakhstan State																		
<i>Master of Philology</i>	University	2006																	
	International																		
<i>Philology</i>	Kazakh-Turkish																		
	University	2004																	
Employment	<table border="0"> <tr> <td><i>Associate professor of the</i></td> <td>M. Auezov South</td> <td>2006-to the present day</td> </tr> <tr> <td>Department “Journalism and Kazakh</td> <td>Kazakhstan</td> <td></td> </tr> <tr> <td>Language” Faculty “Philology”</td> <td>University</td> <td></td> </tr> </table>	<i>Associate professor of the</i>	M. Auezov South	2006-to the present day	Department “Journalism and Kazakh	Kazakhstan		Language” Faculty “Philology”	University										
<i>Associate professor of the</i>	M. Auezov South	2006-to the present day																	
Department “Journalism and Kazakh	Kazakhstan																		
Language” Faculty “Philology”	University																		
Research and development projects over the past 5 years	The research is conducted on the theme “Historical vocabulary of the Kazakh language”. 10 scientific articles were published in this direction.																		
Industry collaboration over the past five years	<ol style="list-style-type: none"> 25.02.2022. Advanced qualification in the course “Theory and genre of journalism, current problems: analysis, practice” in the amount of 72 hours, Shymkent city. Kazakhstan, Shymkent, School of Information Technologies KazMBS “Digital teacher: the technology of preparation of mass open online courses in the educational process” No.001/21-M 31.01.2023. 72 hours. Kazakhstan, Shymkent, School of Information Technologies KazMBS “Using Web-technologies in the educational process” No.006/23-M 27.07.2023. 72 hours. 																		
Key publications over the past five years	<ol style="list-style-type: none"> Creation of nouns by morphological method. Republican scientific journal “Qazaqtany”, No.1, 2020 - p. 198-202. Basic history of historical vocabulary. Materials of the International Scientific and Practical Conference “Communicative Linguistics and Linguistics”. Almaty, 2020. - p. 25-29. Language, culture, ethnoses. Auezov readings -18. Shymkent, 2020. - p. 268-271. The image of Ulzhan in the epic “Path of Abay”. Material of the international scientific-theoretical conference “Mothers of great steppe-Karkabatan”. Karaganda, 2021. - p. 75-77. The importance of dialect in the image of spiritual culture. Bulletin of Science of South Kazakhstan. Shymkent, 2020. - p. 179-185. The place of Journalism profession in society. Materials of the international scientific and practical conference “Integration of culture, education, science and modern media communication”, Nur-Sultan, 2021. p. 61-63 																		

	7. Cognitive foundations of political discourse. Collection of materials for the international scientific and practical seminar on the theme "Culture of word: Science. Education. Methodology". Almaty, 2021. p. 242-248. 8. Ethnographic dialectism. "'Problems and perspectives of implementation of interdisciplinary studies" collection of articles on the results of the international scientific and practical conference. Sterlitamak, Russia, 2021. P. 40-42
Activities in specialized organizations over the the past five years	-

Full name (in full)	Bakhranova Gulmira Abdurasulovna E-mail: gulia1966@list.ru https://orcid.org/0009-0004-9016-1082
Position	PhD in Pedagogy, Senior Lecturer Taught modules: M 3 Russian Language
Academic career	PhD in Pedagogy Kh.A. Yasawi 2011 Innovative teacher activities in the organization of methodological work at schools International Kazakh-Turkish University (Committee on Control of Education and Science of the Ministry of Education and Science of the Republic of Kazakhstan, (Protocol No.6 of June 30, 2011) 2017 Acting associate professor (Associate professor) Order No.1-31 of February 1, 2017
Employment	Russian language lecturer Michurin School 1986-2001 No.36 , Shymkent city Lecturer, Senior lecturer, Acting Associate professor, the department of Pedagogy and Psychology M. Auezov South Kazakhstan University 2002-to the present day
Research and development projects over the past 5 years	-
Industry collaboration over the past five years	From October 15, 2018 to November 15, 2018, she completed an internship at St. Petersburg State University (Russia)
Patents and Copyright certificates	ACT of implementation into the educational process No.381 dated June 13, 2017. South Kazakhstan State Pedagogical Institute
Key publications over the past five years	1. Pedagogical Mastery / Electronic Textbook - Shymkent. 2016 2. Criteria-Based Assessment Technology / Electronic Textbook. - Shymkent. 2016 3. Pedagogical Technologies in Education / Electronic Textbook. - Shymkent. 2016 4. Teacher's Innovative Activities / MONOGRAPH. Typography "Alem". 2016. 176 p. 5. The Teacher as a Subject of Pedagogical Activity. International Scientific Journal "Symbol of Science" No. 02-1/2017
Activities in specialized organizations over the the past five years	Head of the educational and methodological department Methodologist at "Bolashak" Higher College 2022-2024.

Full name (in full)	Satylkhanova Gulmira Alikhanovna E-mail: gulmira.satylkhanova@auezov.edu.kz Scopus ID: 57205268049 https://orcid.org/0000-0002-4081-9147
Position	<i>PhD, senior lecturer</i> Taught modules: M 4 Foreign language, M 9 Foreign language

Academic career	<i>PhD (doctor of Philosophy)</i>	Abay Kazakh National Pedagogical University Kh.A. Yasawi	2015-2018
	<i>Master of Philology (English Philology)</i>	International Kazakh-Turkish University	2006-2008
Employment	Senior lecturer, PhD	Abay Kazakh National Pedagogical University	2018-2023
	Senior lecturer, PhD	M. Auezov South Kazakhstan University.	2023-to the present day
Research and development projects over the past 5 years	Scientific direction: Philology, Literary studies, Methods of teaching foreign languages MB SRW 21-06-11 on the theme of state and budget «English-Kazakh-Russian Dictionary of Computer Science and Information Technologies»		
Industry collaboration over the past five years	2017-2018 she completed an internship at the University of Gazi, Turkey		
Patents and Copyright certificates	-		
Key publications over the past five years	<p>1. «Forms and using the methods of traditions of folk pedagogy for the purposes of ecological culture education of schoolchildren». Materials of the International scientific and practical conference “Role of folk pedagogy in modern education” Republic of Uzbekistan. December 15-16, 2022 - p. 339-342</p> <p>2. Effective use of information and communication technologies in Teaching English. Proceeding X International Conference ICITE – 2023, Volume V. Shymkent, Kazakhstan November 18, 2023.</p> <p>3. Brief characteristics of proper names. <i>BULLETIN of L.N. Gumilyov Eurasian National University. PHILOLOGY Series</i> No. 4(145)/2023. (KKCOH)</p> <p>4. Formation of a culture of communication in the conditions of a modern university. Ejser 12th international symposium on social sciences 25-27 Kasım / November 2023, Türkiye/Turkey</p> <p>5. Theoretical prerequisites for the application of interactive and active methods of English language instruction in distance learning. <i>Journal of Ecohumanism</i>. 2024. Volume: 3, No: 4, pp. 484 – 496 ISSN: 2752-6798 (Print) ISSN 2752-6801 (Scopus) DOI: https://doi.org/10.62754/joe.v3i4.3543</p> <p>6. «Language learning techniques employed by Turkic-Speaking students» M. Auezov South Kazakhstan Research University, scientific journal “Auezov University” No.2 (14) 2025.</p>		
Activities in specialized organizations over the the past five years			
Full name (in full)	Chirva Margarita Nikolaevna E-mail: chirva.margarita@yandex.kz		
Position	<i>Senior lecturer.</i> Taught modules: M 5 Physical culture, M 10 Physical culture, M 18 Physical culture, M 24 Physical culture		

Academic career	<p><i>Initial academic position</i> Lecturer of the department “Physical education for technical specialties”</p> <p><i>Senior lecturer of the department</i> “Physical education for technical specialties”</p>	<p>1.Lesgaft National State University of Physical Education, Twice Order-Awarded, St. Petersburg (formerly Leningrad)</p> <p>2.M. Auezov South Kazakhstan State University</p> <p>3.M. Auezov South Kazakhstan University</p>	<p>1987-1991 From 1994</p> <p>From 2014 to the present day</p>
Employment	<p><i>Position</i> Lecturer of the department “Physical education for technical specialties”</p>	<p><i>Empoyer</i> M. Auezov South Kazakhstan University</p>	<p><i>Period</i> From 1994 to the present day</p>
Research and development projects over the past 5 years	<p>State-funded research project of the department: “Formation of Pedagogical Communication Culture among Future Physical Education Teachers” SB SRW-21-11-12</p>		
Industry collaboration over the past five years	<p>Scientific internship / Professional development: 2023 – M. Auezov South Kazakhstan University</p>		
Patents and Copyright certificates	<p><i>Name</i> <i>Year</i></p>		
Key publications over the past five years	<p>1. Proceedings of the International Scientific and Practical Conference “Auezov readings - 21: New Kazakhstan-future countries”, dedicated to the 80th anniversary of M. Auezov South Kazakhstan University, scientific article: “Sportswoman's warm-up as a factor determining the effectiveness of the competition result” Shymkent 2024.</p> <p>2. “Motivation of students, physical education” Chirva M.N., Azhibekov M.Zh., Mahatbaev F.D. “Auezov readings-22: Materials of the international scientific and practical conference dedicated to the 125th anniversary of academician Kanysh Satbaev - the founder of Kazakh science”, Volume IV, Shymkent 2024 P. 363-366 M. Auezov South Kazakhstan University.</p> <p>3. Republican Scientific Journal “BULLETIN OF UNIVERSAL SCIENCES AND EDUCATION” No.6(4-1) 2024 - Astana: Ministry of Information and Public Development of the Republic of Kazakhstan 2024. - 155 p. Article: “Athletic gymnastics is the key to a healthy lifestyle”</p>		
Activities in specialized organizations over the the past five years	<p><i>Organization</i> <i>Role</i> <i>Period</i></p>		

Full name (in full)	<p>Ponomarenko Elena Valerievna E-mail: fizika.ponomarenko.2020@mail.ru Scopus Author ID: 57189993972 ORCID: https://orcid.org/0000-0002-7733-125X</p>
Position	<p><i>Professor</i> Taught modules: M 6.1 Physics, M 6.2 Fundamentals of quantum mechanics</p>

Academic career	<i>Doctor of Pedagogical sciences</i> 13.00.01 - General pedagogy, history of pedagogy and education, ethnopedagogy <i>PhD of Pedagogy</i> 13.00.02 – Theory and methodology of education and training (physics) <i>Physics and astronomy</i>	Abay Kazakh National Pedagogical University, Almaty	2007-2010
		Abay Kazakh National Pedagogical University, Almaty	2002-2005
		A. I. Herzen Russian State Pedagogical University	1985-1991
Employment	Lecturer of Physics and Astronomy	School-gymnasium M. Kh. Dulati No. 8, Shymkent city	1993-2006
	Senior lecturer, associate professor, professor of the department “Higher mathematics and physics for technical specialties”	M. Auezov SKU, Shymkent	2006-to the present day
Research and development projects over the past 5 years	Head of SB SRW “Scientific-methodical basis of teaching physics to students of higher schools in modern conditions” (2021-2025)		
Industry collaboration over the past five years	1) Internal mobility: Higher qualification (attendance of webinars, presentation, discussion, development of new scientific and methodological materials on the method of teaching physics at the higher school): 2023, Al-Farabi KazNU (city of Almaty). 2) Permanent member of the organizing committee of the International Scientific and Practical Conference “Physics in the System of Modern Education (FSME)” (St. Petersburg, RF)		
Patents and Copyright certificates	1. Author's certificate No.58461 dated 22.05.2025. Model of the structure of metasubject scientific knowledge on the theme “Transfer phenomenon”(in co-authorship). 2. Author's certificate No.. 12472 dated 09.10.2020. Methodological recommendations for the organization of cluster interaction in the system of continuous pedagogical education at the regional level (in co-authorship).		
Key publications over the past five years	1. Some problems of teaching physics in high school in the period of pandemic (Kaz.)// Bulletin of Karaganda University. Series Pedagogy. – 2021. - No.4(104). - P. 75-82. https://doi.org/10.31489/2021Ped4/75-82 2. Organization of work with stakeholders of the educational program “Physics” in new conditions // Pedagogy and psychology. – 2021. - No.4(49). - P. 5-13. https://journal-pedpsy.kaznpu.kz/index.php/ped/article/view/463/760 3. The problem of studying physics at a research university: analysis of world experience and practical recommendations // Bulletin of Science of South Kazakhstan.. – 2023. No.1 (21). - P.155-161. 4. Complex scientific approach to teaching physics at a research university // Bulletin of Science of South Kazakhstan. – 2023. No.1 (21). - P. 162-167. 5. The application of knowledge of physics in the study of mathematics in high school // Bulletin of Science of South Kazakhstan.. – 2023. No.2 (22). - P. 138-144.		
Activities in specialized organizations over the the past five years	2015 to the present day– Expert at the National Center for State Scientific and Technical Expertise, JSC, Science Committee of the Ministry of Science and Higher Education of the Republic of Kazakhstan		
	2014-2019 – Expert at the Independent Agency for Accreditation and Rating, Republic of Kazakhstan		

Full name (in full)	Serikbaeva Aizhan Muhammedaliyevna E-mail: ali_2006.82@mail.ru https://orcid.org/0000-0002-8204-7851		
Position	<i>Master of Pedagogy</i> Teaching modules : M 7.1 General Chemistry, M 7.2 Theoretical Foundations of Inorganic Chemistry		
Academic career	Lecturer, Senior lecturer Department “Chemistry and Biology”	Miras University	2005-2015
	Senior lecturer, Department “Chemistry and general chemical engineering”	M. Auezov South Kazakhstan University	2015

Employment	Position	South Kazakhstan	<i>Period</i>
	Laboratory assistant, Department “Chemistry and Biology”	Pedagogical University	2004 -2005
	Instructor, Senior instructor Department “Chemistry and Biology”	Miras University	2005-2015
	Senior lecturer, Department “Chemistry and Physical Analysis”	M. Auezov South Kazakhstan University	2015 -to the present day
Research and development projects over the past 5 years	Research internship: March 4–May 7, 2022 Polytechnic Institute of Bragança, Portugal		
Industry collaboration over the past five years	Patent of the Republic of Kazakhstan for the utility model “Method for producing a sorbent for purifying aqueous solutions” No. 9615/2024/0790.2		
Patents and Copyright certificates	<p>1. PREPARATION AND PHYSICO-CHEMICAL CHARACTERIZATION OF ORGANIC MODIFIED CLAYS WITH GRAFTED ORGANOALKOXIDES News of the National Academy of Sciences of the Republic of Kazakhstan JSC “ D.V. Sokolsky Institute of Fuel, Catalysis and Electrochemistry” Chemistry and technology ALMATY, NAS RK Volume 5-6, Number 449 (2021), 61-68 ://doi.org/10.32014/2021.2518-1491.78</p> <p>2. Development of organic modified clays with grafted organoalkoxides for the treatment of contaminated waters International Congress .Water, waste and energy management. Rome/Italy 20-22July 2022</p> <p>3. Methods of preparation and physico-chemical characteristics of organic modified clays with grafted organoaloxides Bulletin of the National Academy of Sciences of the Republic of Kazakhstan Satbayev University Series of geology and technical sciences 3 (453) MAY – JUNE 2022 https://doi.org/10.32014/2022.2518-170X.188</p> <p>4. Preparation and physico–chemical characterization of organically modified clays with grafted DMSO and TEOA News of the National Academy of Sciences of the Republic of Kazakhstan JSC “ D.V. Sokolsky Institute of Fuel, Catalysis and Electrochemistry” Chemistry and technology ALMATY, NAS RK January – March 2023 1 (454) https://doi.org/10.32014/2023.2518-1491.152</p> <p>5. Development and characterization of organically grafted clay minerals for the removal of methylene blue from water Clays and Clay Minerals (2024), 72, 34, 1–10 doi:10.1017/cmn.2024.34</p>		

Full name (in full)	Zhunisbekova Dana Alkhanovna E-mail: Dana.Zhunisbekova@aeuzov.edu.kz SCOPUS ID 57211611122, https://orcid.org/0000-0002-5554-5863		
Position	<i>PhD in Pedagogy,</i> Associate Professor Taught modules: M 12.1. Higher Mathematics, M 12.2. Probability Theory and Mathematical Statistics		
Academic career	<i>PhD in Pedagogy,</i> Theory and methods of teaching and training (Mathematics)	M. Auezov South Kazakhstan State University, Shymkent	<i>From 2007 to the present day</i>
	0301 - Mathematics, Computer Science, and Computer Engineering	Shymkent branch of Kh.A. Yasawi International Kazakh-Turkish University	1997
Employment	Lecturer, Senior lecturer, Associate professor of the department “Higher Mathematics and Physics for technical specialties”	M. Auezov South Kazakhstan State University	<i>From 2004 to the present day</i>

Research and development projects over the past 5 years	SB-SRW-21-16-01 “Improving the methods of teaching mathematics”, scientific supervisor D.A. Zhunisbekova.
Industry collaboration over the past five years	Certificates of participation in international conferences are available: 1. The XVIII International Scientific and Practical Conference “MODERNÍ VYMOŽENOSTI VĚDY – 2022”. Prague, Czech Republic. 2. The XVIII International Scientific and Practical Conference “STRATEGICZNE PYTANIA ŚWIATOWEJ SAUKI – 2022”. Przemyśl, Poland. 3. The XVIII International Scientific and Practical Conference “ВЪДЕSHCHITE IZSLEDVANIYA – 2022”. Sofia, Bulgaria. 4. The XVIII International Scientific and Practical Conference “TRENDS OF MODERN SCIENCE – 2022”. Sheffield, UK.
Patents and Copyright certificates	1. Certificate of state registration of rights to the copyright object “Mathematical analysis (Indefinite and definite integrals)” No. 0547 dated March 29, 2016 and No. 0544 dated March 29, 2016.
Key publications over the past five years	1. Physico-Chemical Study of the Possibility of Utilization of Coal Ash by Processing as Secondary Raw Materials to Obtain a Composite Cement Clinker. Journal of Composites Sciences, 2023, 7(6), 234. – Basel, Switzerland. – 15 p. Citescor 3,6 (процентиль 68). (Scopus) 2. Development of university students’ logical thinking through a problem-based approach to teaching Higher Mathematics. // Journal “Eurasian education, Science and Innovation”. –Vol.13. - pp.23-27. 3. Mathematical description of the process of film condensation of vapors from steam-gas mixtures. - Rasayan Journal OF Chemistry, Vol. 15. – No.3. – 2022. – India. – pp.1905-1915. (Scopus) 4. Theoretical studies of the heat transfer process and the hydrodynamics of a condensate film by numerical experiment. - Rasayan Journal Of Chemistry, Vol. 15. – No.3. – 2022. – India. – pp.1894-1904. (Scopus)
Activities in specialized organizations over the the past five years	

Full name (in full)	Zhorabaeva Nailya Kapparovna E-mail: asekam_10@mail.ru https://orcid.org/0009-0004-9229-8437		
Position	<i>Master in Ecology</i> Taught modules M 13.1 General Biology, M 13.2 Origin and Evolution of the Biosphere, M 27.1 Bioindication Research Methods in Ecology, M 27.2 Agroecology, M 46.1 Planning and Organization of SRW, M 46.2 Fundamentals of Scientific Research and Patent Management		
Academic career	<i>Master's Degree</i> (6M060800-Ecology)	Regional Social Innovation University, Shymkent M. Auezov Shymkent Pedagogical Institute, Shymkent	2015 1984-1989
Employment	Master's degree, senior lecturer of the Department “Ecology”	M. Auezov South Kazakhstan University.	1.10.2003- to the present day
Research and development projects over the past 5 years	Performer of the scientific project AP 23484853 “Development of innovative technology of eco-constructive modules for the remediation of the urban environment” 2024-26.		
Industry collaboration over the past five years	Department of Ecology of Shymkent, Makarenko Secondary School No.41, Aibek Secondary School No. 14, K. Spataev Lyceum No.7		
Patents and Copyright certificates	1. Copyright certificate No.28853 dated 09.19.2023 “Assessment of the impact of solid household waste on the environment and consideration of its environmental issues” 2. Copyright certificate No.25970 dated 05/12/2022 “Consideration of the system of pollution assessment of water resources in Shymkent city through living factors”		
Key publications over the past five years	1. «Ecology and the basics of life safety» Textbook for students on the speciality 5B060800-Ecology, M. Auezov South Kazakhstan University, 2021		

	<p>2. «Chemical contaminants arsenic» Proceedings of the XVI International Scientific and Practical Conference, moderní vymoženosti vědy, Praga 2020, p.3-5</p> <p>3. «Strukture of geographic information systems» Materials of the XVI International Scientific and Practical Conference. Real research and development-2020, Sofia-2020, p.25-29</p> <p>4. «Monitoring and characterizaition of the enviroment south kazakistan» Materials of the XVI International Scientific and Practical Conference. Real research and development-2020, Sofia-2020, p.22-25</p> <p>5. «Guality of ground water in central asia» “Internauka”: scientific journal – No. 4(227). Part 5. Moscow, Publ.house “Internauka”, 2022. – 68 p.</p>						
Activities in specialized organizations over the the past five years	<table border="1"> <thead> <tr> <th><i>Organization</i></th> <th><i>Role</i></th> <th><i>Period</i></th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> </tr> </tbody> </table>	<i>Organization</i>	<i>Role</i>	<i>Period</i>			
<i>Organization</i>	<i>Role</i>	<i>Period</i>					

Full name (in full)	Duysenova Sagynysh Sabitovna E-mail: kozaïym75mail.ru https://orcid.org/0000-0001-8758-5969						
Position	<i>Master of Ecology</i> Taught modules: M 14.1 Introduction to the Specialty, M 14.2 Fundamentals of Academic Writing, M 31 Geocology and Nature Protection						
Academic career	<table border="1"> <tbody> <tr> <td><i>Specialization: Environmental Protection and Rational Use of Natural Resources</i></td> <td><i>M. Auezov South Kazakhstan Technological University</i></td> <td><i>1997</i></td> </tr> <tr> <td><i>Postgraduate Program: Ecology</i></td> <td><i>Kh.A.Yasawi International Kazakh-Turkish University</i></td> <td><i>2003</i></td> </tr> </tbody> </table>	<i>Specialization: Environmental Protection and Rational Use of Natural Resources</i>	<i>M. Auezov South Kazakhstan Technological University</i>	<i>1997</i>	<i>Postgraduate Program: Ecology</i>	<i>Kh.A.Yasawi International Kazakh-Turkish University</i>	<i>2003</i>
<i>Specialization: Environmental Protection and Rational Use of Natural Resources</i>	<i>M. Auezov South Kazakhstan Technological University</i>	<i>1997</i>					
<i>Postgraduate Program: Ecology</i>	<i>Kh.A.Yasawi International Kazakh-Turkish University</i>	<i>2003</i>					
Employment	Lecturer at the department “Ecology” <i>M. Auezov South Kazakhstan University</i> <i>2010-to the present day</i>						
Research and development projects over the past 5 years	<i>Departmental project from the state budget SB-16-04-08 “Sustainable Development and Green Technologies of the Southern Region of Kazakhstan”for 2021-2025</i>						
Industry collaboration over the past five years	<ol style="list-style-type: none"> <i>“Explanation of the norms of the new Environmental Code” 6-8 October 2022, Ministry of Ecology, Geology, and Natural Resources of the Republic of Kazakhstan</i> <i>Letter of thanks from the Shymkent City Education Department, 2022</i> <i>Letter of thanks from the Shymkent City Education Department, 2020</i> 						
Patents and Copyright certificates	<p>No. 7539 “Method of Obtaining Complex Organomineral Fertilizer” <i>2022</i></p> <p>No. 7654 “Purification of Nitric Acid Production Waste and Reduction of Environmental Impact” <i>2022</i></p>						
Key publications over the past five years	<ol style="list-style-type: none"> <i>Izvestiya Vysshikh Uchebnykh Zavedenii Seria Tekhnologiya Tekstilnoi Promyshlennostithis link is disabled 2020.</i> <i>Disposal chromium from waste water. International Conference of Industrial Technologies and Engineering (ICITE -2020),</i> <i>The problem of formation of medical of Shymkent. Young Scientists Competition: The Collection of Articles from the 10th International Research Competition - Penza: ICSC Science and Education. 2021</i> <i>Treatment waste water from chromium in leather production. Proceeding IX International Conference Industrial Technologies and Engineering ICITE-2022</i> 						
Activities in specialized organizations over the the past five years	<i>Jury member of the “Save Nature” competition at the Shymkent State Institution "Center for Ecology, Local History, and Tourism" of the Shymkent City Education Department, 2020</i>						

Full name (in full)	Ibraeva Nurila Amirovna E-mail: 324014@mail.ru ORCID: https://orcid.org/0000-0002-0148-3142
Position	<i>Associate professor</i> Taught modules: M 15 Philosophy, M 17 Cultural Studies and Psychology

Academic career	<p><i>Associate professor of the department “Philosophy”</i> M. Auezov South Kazakhstan State University 2023</p> <p><i>PhD in Philosophy</i> Al-Farabi Kazakhstan National University 2007</p> <p><i>Philosophy. Lecturer/Philosopher</i> National University 1988</p>
Employment	<p>Lecturer of the department “Philosophy and Scientific Communism” (as a young specialist) Al-Farabi Kazakhstan National University 1988</p> <p>Senior lecturer of the department “Philosophy” M. Auezov South Kazakhstan State University 1998</p> <p>Associate professor of the department “Philosophy” University 2023—to the present day</p>
Research and development projects over the past 5 years	<p>Participation in the project “Concept and project for the development of an intellectual nation” for 2025-2027.</p> <p>Video lectures on the discipline “Philosophy”. Themes No.1,2,3,4,6,7,8</p>
Industry collaboration over the past five years	<p>Navoi city, Republic of Uzbekistan, Navoi State Pedagogical University 10.02.-20.02.2025 Academic mobility.</p> <p>Guest lectures - 90 hours. Certificate No. 1902/2</p>
Patents and Copyright certificates	<p>Educational program 6B02210 Philosophy. Shymkent, M. Auezov South Kazakhstan University, 2022. 275 p.</p> <p>6B02210-Philosophy "Great field thinkers" textbook No. 5, 04/28/2022.</p>
Key publications over the past five years	<p>1. The space of the Kazakh nomadic world. IScience “Current scientific research in the modern world” Journal Issue 11 (79) Part 8 November 2021 Pereyaslav 2021. Pp. 120-126. RSCI</p> <p>2. FEATURES OF THE SOCIAL DEVELOPMENT OF MODERN SOCIETY. M. Auezov South Kazakhstan University, Shymkent, Kazakhstan P 99-101. Proceeding IX International Conference “Industrial Technologies and Engineering” ICITE – 2022, Volume V M. Auezov South Kazakhstan University Shymkent, Kazakhstan</p> <p>3. Influence of Socio-Organizational and Personal Resources of the Employee on the Positive Perception of Work. Received: 9 May 2023 / Accepted: 13 June 2023 / Published: 5 July 2023. 54 percentile. Scopus</p>
Activities in specialized organizations over the the past five years	<p>From 2020. Member of the REMC (“Republican Educational and Methodological Council”). Subsection “Philosophy”.</p>

Full name (in full)	<p>Montaev Ardak Bazarbekovich e-mail: elim_menim@mail.ru; ORCID: https://orcid.org/0000-0002-6364-700X Scopus Author ID: 57192663738</p>
Position	<p><i>Senior lecturer</i> Taught modules: M16 Sociology and Political Science</p>
Academic career	<p>Bachelor in Science in Sociology Al-Farabi 2005-2011 Master in Science in Social Sciences Kazakhstan National University</p>
Employment	<p>Senior lecturer of the department “Political Science” M. Auezov South Kazakhstan State University From 2017 -to the present day</p>
Research and development projects over the past 5 years	<p>2021-2025 B-11-14-12 Main directions and problems of updating the political system of the Republic of Kazakhstan</p>

Industry collaboration over the past five years	Internship under the Bolashak program in Washington, DC (USA) from May 2022 to May 2023
Patents and Copyright certificates	-
Key publications over the past five years	<p>1. Gender Aspects of Mutual Effectiveness of Socio-Economic Strategies for Choice of Profession and Employment of Young Specialists. Academic Journal of Interdisciplinary Studies.Vol 11, No 2. Published: 5 March 2022. – P.275-291, https://doi.org/10.36941/ajis-2022-0051</p> <p>2. The Problem of Transboundary Water Resources Management in International Relations. Vol. 109 No. 1 (2025): 61-70 KazNU Bulletin. International Relations and International Law Series,- https://bulletin-ir-law.kaznu.kz/index.php/1-mo/article/view/1516/1233</p>
Activities in specialized organizations over the the past five years	-

Full name (in full)	Kozhakhmetova Aidana Maratkyzy E-mail: k_aidana_19@mail.ru Scopus ID 57226139779 https://orcid.org/0000-0001-8758-5969		
Position	<i>Master in Ecology</i> Taught modules: M 20 Professionally Oriented Foreign Language, M 47.1 Fundamentals of Environmental Law in Environmental Management, M 47.2 Environmental Legislation of the Republic of Kazakhstan		
Academic career	<i>Bachelor's degree(Ecology)</i>	M. Auezov South Kazakhstan University	2014
	<i>Master's degree (Ecology)</i>	University	2016
	<i>Doctoral degree(Inorganic Chemical Engineering)</i>		2021
Employment	Lecturer of the department “Chemistry, Biology, and Ecology”	International Humanitarian and Technical University, Shymkent	2016-2017
	Senior lecturer of the department “Ecology”	M. Auezov South Kazakhstan University	2023-to the present day
Research and development projects over the past 5 years	Grant project AP08053112 for 2020-2022 “Development of an environmentally friendly innovative technology for obtaining magnesium and other fertilizer compounds from samples of ash and slag waste and dolomite ores” 67,768,701 tenge		
Industry collaboration over the past five years	“Development of the technology for producing a prolonged-release fertilizer mixture with microelements based on substandard phosphate-siliceous raw materials and thermal power plant waste” 03/22/2021 – 04/22/2021 Belarusian State Technological University, Minsk, Republic of Belarus		
Patents and Copyright certificates	“Method for Obtaining Slow-Release Fertilizer Compound with Microelements” No. 6587		2021
	“Method for Obtaining Complex Organomineral Fertilizer” No. 7539		2022
Key publications over the past five years	<p>1. The problem and solutions to reduce the environmental burden of large cities. Proceeding X International Conference “Industrial Technologies and Engineering” ICITE –2023, Volume I, M. Auezov South Kazakhstan University, Shymkent, Kazakhstan, November 18, 2023, P. 293-296</p> <p>2. Research of the composition of low-rated phosphorites of the Aksay deposit as a component of fertilizer “Bulletin of the National Academy of Sciences of the Republic of Kazakhstan. Series on Chemistry and Technology” No. 5-6, 2021, 30-34,.</p> <p>3. Production of fuel mixture based on broken silicon -Phosphate raw material and CHP waste Bulletin of the National Academy of Sciences of the Republic of Kazakhstan. Chemistry and Technology Series No. 2, Almaty, NAS RK. 2022, 103-111</p> <p>4. Development of technology for obtaining integrated fertilizer from solid waste of production “Reports of the National Academies of Sciences of the Republic of Kazakhstan”. No. 2, Almaty, NAS RK. 2022, pp. 40-49</p> <p>5. Obtaining environmentally safe mixed fertilizers containing trace elements based on carbonate-siliceous dolomitized phosphate raw materials and wastes CHP RASĀYAN Journal of Chemistry (april–june 2021), RICS.</p>		

Activities in specialized organizations over the the past five years	Organization	Role	Period
	Secretary as part of the certification committee of the educational program “6B05210 Ecology” 2023-2024, 2024-2025 academic year		

Full name (in full)	Bektureeva Gulzhan Ustemirovna E-mail: gulzhan.bektureeva@aeuzov.edu.kz Scopus ID 57842328800 ORCID ID 0009-0002-7135-3498 Researcher ID Web of Science: CFV-3355-2022		
Position	<i>Associate professor of Environmental Engineering</i> Taught modules: M 21.1 Soil Science with Fundamentals of Ecology, M 21.2 Environmental Problems of Agricultural Territories, M 25.1 Ecology and Sustainable Development, M 25.2 Environmental Aspects of Natural Science, M 35.1 Modern Urban Problems and Urban Ecology, M 35.2 Social Ecology and Sustainable Development, M 39 Climate Change and the Green Economy, M 44.1 Resource-Saving, Low-Waste, and Waste-Free Technologies, M 44.2 Green Technologies for Recycling Household Waste, M 47.1 Fundamentals of Environmental Law in Environmental Management, M 47.2 Environmental Legislation of the Republic of Kazakhstan		
Academic career	<i>Associate professor in Environmental Engineering</i> <i>PhD in Engineering</i> <i>Colloid Chemistry and Physicochemical Mechanics</i> <i>“Environmental Protection and Rational Use of Natural Resources”</i> <i>Engineer-technologist</i>	By decision of CCES and MES of RK M. Auezov South Kazakhstan University, Shymkent Kazakh Chemical-Technological Institute, Shymkent	2025 2001 1996
Employment	<i>Lecturer, Senior lecturer, Associate professor of the department</i> <i>“Ecology”</i>	M. Auezov South Kazakhstan University	2003- to the present day
Research and development projects over the past 5 years	Researcher of the 2024-2026 project IRN BR21882292 “Integrated Development of Sustainable Construction Industry: Innovative Technologies, Production Optimization, Efficient Use of Resources, and Creation of the Technology Park.” 150 billion tenge		
Industry collaboration over the past five years	<i>Internship at the Jizzakh Polytechnic Institute in the Department of Ecology and Environmental Protection, December 4–9, 2023</i>		
Patents and Copyright certificates	<i>Copyright certificate No. 37763 dated July 3, 2023, “Study of the Environmental Impact of Motor Vehicles in Shymkent”</i> <i>Copyright certificate No. 37762 dated July 3, 2023, “Environmental Assessment of Heavy Metal Pollution of Soil in the Industrial Zone of Shymkent”</i>		
Key publications over the past five years	1.Theoretical Researching of Particle Movement in Cleaning Zone of Dust-Arrester <i>Polish Journal of Environmental Studies.</i> , 2023, 32(4), pp. 3007–3014 DOI10.15244/pjoes/163341 2.Environmental Assessment of Solid Waste Pollution of Urban Areas (on the example of Shymkent, Republic of Kazakhstan) <i>Evergreen</i> 2023, 10(3), pp. 1209–1217 DOI 10.5109/7148441 3.Optimization of verification and repair processes of measurements used in control of hazardous and noxious production factors at food industry enterprises of turkestan region using mathematical methods and software algorithms <i>ARNP Journal of Engineering and Applied Sciences</i> 2022, 17(9), pp. 976–991 ISSN1819 www.arnpjournals.com 4. Reducing the environmental burden of large cities International conference Green economy: innovations, investments and propects. 24 April 2024. <i>Jizzakh Polytechnic Institute</i>		
Activities in specialized organizations over the the past five years	<i>Composition of the SAC on the EP “Ecology”</i> <i>Composition of the SAC on the Doctoral Program</i>	<i>Member of SAC</i> <i>Member of SAC on the appeal commission</i>	2023 2023

Full name (in full)	Baibatyrova Bekzat Umirzakkyzy E-mail: Bekzat.Baibatyrova@aeuzov.edu.kz Scopus ID 57211941254 https://orcid.org/0000-0003-0432-2632		
Position	<i>Master of Natural science</i> Taught modules: M 22.1 Environmental Resource Science and Nature Management, M 22.2 Environmental Design in Environmental Protection, M 28 Industrial Internship I, M 38 Industrial Internship II, M 49 Pre-Graduation or Industrial Internship, M 50 Writing and Defending a Thesis, Graduation Project, or Preparing and Passing a Comprehensive Exam		
Academic career	<i>Basic education Ecology</i>	M. Auezov South Kazakhstan University	2008
	<i>Master's degree Ecology</i>		2010
Employment	<i>Position</i> Lecturer, Senior lecturer of the department "Ecology"	<i>Employer</i> M. Auezov South Kazakhstan University	<i>Period</i> 2010-2016 2010 -to the present day
Research and development projects over the past 5 years	The performer of the grant financing project for scientific and (or) scientific-technical projects for 2024-2026 of the Ministry of Education and Science of the Republic of Kazakhstan "Development of innovative technologies for eco-structural modules for the rehabilitation of the urban environment" No. 259-SF dated September 9, 2023 30 million tenge.		
Industry collaboration over the past five years	"Improving solid municipal waste disposal methods to reduce their technogenic impact on the environment" Scientific internship 30.01-29.02.2024 - at the Belarusian State University of Agriculture (Republic of Belarus)		
Patents and Copyright certificates	<i>Name</i> no		<i>Year</i>
Key publications over the past five years	<p>1. Development of technology of solid domestic wasters processing -VIII International Annual Conferense "Industrial Technologies and Engineering" ICITE-2021 Proceedings, 2021.-P.35-37.</p> <p>2. Auezov modern educational technology International Scientific and Practical Conference "Auezov Readings-21: - New Kazakhstan - the Future of the Country" dedicated to the 80th anniversary of the M. Auezov South Kazakhstan State University, Vol. 7, 2023, pp. 106-108.</p> <p>3. Promising Methods of Solid Municipal Waste Recycling. Innovative Solutions in Agricultural Production Technologies and Mechanization. Collection of Scientific Papers. Issue 9. Gorki BSAA 2024, pp. 16-18.</p> <p>4. Ensuring Life Safety at the Current Stage of Social Development. Collection of Materials of the International Student Scientific and Practical Conference Gorki, April 16-17, 2024. Gorki BSAA 2024, pp. 195-197.</p>		
Activities in specialized organizations over the the past five years	<i>Organization</i> "Daryn Center" Shymkent city	<i>Role</i> Expert	<i>Period</i> 2024

Full name (in full)	Sagitova Guzaliya Faritovna E-mail: guzalita.f1978@mail.ru SCOPUS ID 56764468200, https://orcid.org/0000-0001-7913-7453		
Position	<i>Professor of Ecology</i> Taught modules: M 23.1 Ecosystem and Law, M 45.1 Geographic Information Systems in Ecology, M 45.2 Modeling in Ecology		
Academic career	<i>Associate professor</i> <i>Chemical engineering</i> <i>PhD in Engineering</i>	By decision of CCES and MES of RK	2021 2007

	<i>Geoecology</i> <i>Bachelor of science in natural science, EP 6B05201-Ecology</i>	M. Auezov South Kazakhstan University, Shymkent Central Asian Innovation University, Shymkent	2024
Employment	Senior lecturer, Administrator of the Institute of postgraduate education, Deputy director of the Institute of postgraduate education, Associate professor, Professor	M. Auezov South Kazakhstan University	Since 2006-to the present day
Research and development projects over the past 5 years	Project performer AP19679034 on the theme “Development of the technology for producing bitumen materials for the road industry with the utilization of polymer waste in the technological process” for the 2023-2025		
Industry collaboration over the past five years	Certificate: “Internationalisation of higher education. Innovative approaches to teaching and learning”, 72 Academic hours, Brussels (Belgium), 18 June 2017		
Patents and Copyright certificates	Utility Model Patent RK “Method of Separation Fatty Acids from Oil and Fat Industry Waste” No. 6932.		2021
	Utility Model Patent RK “Method for Obtaining Tire Reclaim” No. 8043.		2023
	Utility Model Patent RK “Method for Hydrotreating Hydrocarbon Feedstock” No. 8776.		2023
Key publications over the past five years	<p>1. The influence of waste from the oil and fat industry on the properties of elastomer composites. Printed “Reports of the National Academy of Sciences of the Republic of Kazakhstan. Chemistry and Technology Series”, Almaty, http://reports-science.kz/index.php/en/archive, No. 2, 2023, pp. 139-152</p> <p>2. Ecologically Friendly, Slow-Release Granular Fertilizers with Phosphogypsum //Polish Journal of Environmental Studies, Vol. 31, No. 3 (2022), 2935-2942 (SCOPUS)</p> <p>3. Use of by-products of the oil and fat industry in the production of tire reclaim. Printed in "Bulletin of the NAS RK. Series of Chemistry and Technology", No. 4 (453), 2022, pp. 46-57</p> <p>4. The investigation of physical and chemical properties of water solutions of polymers and their application in combination with drugs //Rasayan Journal of Chemistry, Vol. 14 No. 1 1-8 January - March 2021 ISSN: 0974-1496 e-ISSN: 0976-0083 CODEN: RJCABP (SCOPUS)</p> <p>5. Modification of tyre rubber crumb with wastes of plant oil production// Advances in Polymer Technology Volume 2023, Article ID 6889286, 8 pages https://doi.org/10.1155/2023/6889286, p.1-8(SCOPUS)</p>		
Activities in specialized organizations over the the past five years	<i>Organization</i>	<i>Role</i>	<i>Period</i>
	- secretary of SAC on EP CTOS and CTIS		

Full name (in full)	Makhatov Zhaksylyk Baumanuly E-mail: mjasik92@mail.ru Scopus ID: 57211468449, https://orcid.org/0000-0001-8477-0077		
Position	<i>Senior Lecturer</i> Taught modules: M 23.1 Ecosystem and Rights		
Academic career	Master in Natural Science	Regional Social and Innovative University	2015
	Bachelor in Ecology	International Humanitarian and Technical University	2013
Employment	Senior lecturer, research worker	M. Auezov South Kazakhstan University	2020-to the present day

Research and development projects over the past 5 years	Project manager 2022-2024 – Young scientist “Development of Biotechnology for Feed Protein from Plant Raw Materials”						
Industry collaboration over the past five years	2024 - LLP “Fire and Industrial Safety Center”, Advanced Training Course “Ecosystem and Law”, 72 hours						
Patents and Copyright certificates	<p>“Method for Increasing the Productivity of Cultivated Seeded Pastures,” Utility Model No. 10017 2025</p> <p>“Method for Determining the Quantitative Content of Flavonoids in an Alcohol Extract of Maclura Fruit,” Utility Model No. 7896 2023</p> <p>“Method for Obtaining a Carbon Dioxide Extract from the Aerial Portion of Rowan Fruit, Sorbus aucuparia L.,” Utility Model No. 7898 2023</p>						
Key publications over the past five years	<p>1.Makhatov Zh., Kedelbayev B., Mombekov S., Kozhamzharova A. Wheat Straw Processing Effect Study on Their Enzymatic Hydrolysis by Trichoderma viride and Aspergillus awamori Cultures // OnLine Journal of Biological Sciences. – 2024. - No.24 (1). – 19-23. (Scopus Q2)</p> <p>2.Kurmanbayeva M, Kusmangazinov A, Makhatov Z, Karabalayeva D, Yerezhepova N, Murzabayev B. Positive Effects of Perennial Wheat on Soil Fertility, Carbon Stocks and Microbial Biomass in South-Eastern Kazakhstan. Polish Journal of Environmental Studies. 2024;33(2):1791-9. https://doi.org/10.15244/pjoes/174013. (Scopus Q3)</p> <p>3.Kurmanbayeva M, Makhatov Z, Kusmangazinov A, Karabalayeva D, Yerezhepova N. Protein, Amino Acid and Carbohydrate Content of Fungal Treated Annual and Perennial Wheat Straw // Journal of Ecological Engineering. - 2023. - No.24(12). – P.235-246. https://doi.org/10.12911/22998993/173065. (Scopus Q2)</p>						
Activities in specialized organizations over the the past five years	<table border="1"> <thead> <tr> <th>Organization</th> <th>Role</th> <th>Period</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Organization	Role	Period			
Organization	Role	Period					

Full name (in full)	Kozhamkulova Indira Erubaevna E-mail: ikozhamkulova@bk.ru SCOPUS ID 57973057400, https://orcid.org/0000-0002-4409-2395
Position	<i>Associate professor</i> Taught modules: M 23.1 Ecosystem and Rights
Academic career	<p><i>Obtaining a higher education diploma</i> M. Auezov South Kazakhstan University 1997, Shymkent</p> <p><i>Specialization: "Economics and Management in the Social Sphere and Industries"</i></p> <p><i>Defense of a PhD dissertation in the specialty: 08.00.01 – Economic Theory</i> T. Ryskulov Kazakh Economic University 2004</p>
Employment	<i>Associate professor of the department “Economic Theory”</i> M. Auezov South Kazakhstan University 2004-to the present day
Research and development projects over the past 5 years	SRW performer No. B-16-09-02 “Scientific foundations for the formation and development of the integration potential of Kazakhstan in the context of globalization”, 2016-2020
Industry collaboration over the past five years	Certificate of advanced training in Economic Theory No. 03389 dated April 16, 2018, from the Khoja Akhmed Yasawi SKTU.
Patents and Copyright certificates	-
Key publications over the past five years	<p>1.Problems and Ways to Improve Marketing Management at the Enterprise. Science Today: Reality and Prospects. 2021. pp. 37-39.</p> <p>2. Mechanisms for Improving Business Efficiency in the Context of Innovative Economic Development. Economy: Strategy and Practice. 17(4). 2022. https://doi.org/10.51176/1997-9967-2022-4-29-40</p>

	3. Case Study: “State Regulation of the Economy”. 2020. South Kazakhstan University 4. Development of Small and Medium-Sized Businesses in Kazakhstan. Proceedings of the 23rd Republican Student Scientific Conference. 6. 2020. pp. 151-153. 5. Strategic Planning and Its Role in Business Development. Proceedings of the 23rd Republican Student Scientific Conference. 6. 2020. pp. 90-92.						
Activities in specialized organizations over the the past five years	<table border="1"> <thead> <tr> <th>Organization</th> <th>Role</th> <th>Period</th> </tr> </thead> <tbody> <tr> <td>-</td> <td></td> <td></td> </tr> </tbody> </table>	Organization	Role	Period	-		
Organization	Role	Period					
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Full name (in full)	Isaeva Razia Adilbekovna E-mail: razia_68@mail.ru SCOPUS ID 55235102500, https://orcid.org/0000-0002-2357-626X		
Position	<i>Professor of Ecology</i> Taught modules: M 29.1 Environmental Monitoring, M 29.2 Environmental Monitoring of Enterprises, M 32.1 Industrial Ecology, M 32.2 Integrated Environmental Management System		
Academic career	PhD in Technical sciences 25.00.36-Geoecology of substances Chemical Engineer-Technologist, Technology of inorganic substances	M. Auezov South Kazakhstan State University Kazakh Institute of Chemical Technology, Shymkent	2005 1991
Employment	Lecturer of the department Senior lecturer Associate professor of the department Head of the department of Ecology Professor of the department	M. Auezov South Kazakhstan State University	1993-2003 2003-2005 2005-2010 2010-2013 2015 -2019 From 2019-to the present day
Research and development projects over the past 5 years	<i>Department project from the state budget SB-16-04-08 “Sustainable Development and Green Technologies of the Southern Region of Kazakhstan” for 2021-2025</i>		
Industry collaboration over the past five years	Tashkent Institute of Chemical Technology. Certificate of advanced training No. 004515022024 2024		
Patents and Copyright certificates	Consideration of assessment system of the water resources pollution in the city of Shymkent through living nature factors. CERTIFICATE on entering information into the state register of rights to objects protected by copyright May 12, 2022 No. 25970 Cleaning of waste from TFC products of chemical production and scientific solution of environmental problems On entering data into the state register of rights to objects protected by copyright.		
Key publications over the past five years	1. Polish Journal of Environmental Studies Pol. J. Environ. Stud. Vol. 31, No. 2 (2022), 1-9 Assessment of Soil Contamination by Heavy Metals: A Case of Turkistan Region. 2. Environmental Assessment of Solid Waste Pollution of Urban Areas (on the example of Shymkent, Republic of Kazakhstan). EVERGREEN Joint Journal of Novel Carbon Resource Sciences & Green Asia Strategy, Vol. 10, Issue 03, pp00-00, September 2023. 3. Environmental Assessment of Solid Waste Pollution of Urban Areas (on the example of Shymkent, Republic of Kazakhstan)EVERGREEN Joint Journal of Novel Carbon Resource Sciences & Green Asia Strategy, Vol. 10, Issue 03, pp00-00, September 2023 4. Investigation of Production Wastes Upon Roasting Mechanically Activated Phosphorite and Utilisation of Fluorine Compounds EVERGREEN Joint Journal of Novel Carbon Resource Sciences & Green Asia Strategy, Vol. 11, Issue 01, pp214-224, March, 2024 5. The problem of garbage disposal in the Republic of Kazakhstan and its solutions. Materials of the VIII International Scientific-Practical Conference Integration of the Scientific Community To the Global Challenges of Our Time		
Activities in specialized organizations over the the past five years	“Center Daryn”, Shymkent city	Expert	2024
	Admissions committee on EP Ecology master's degree and doctoral studies	Member	annually

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Full name (in full)	Iztleuova Aigerim Bakbergenovna E-mail: aigerim.iztleuova@aezov.edu.kz SCOPUS ID https://doi.org/10.5109/7172258 , https://orcid.org/0000-0002-1940-7025		
Position	<i>Master of natural sciences</i> Taught modules : M 26.1 Ecology of animals, plants and biogeography, M 26.2 Landscape science with ecological foundations, M 43.1 Air basin protection, M 43.2 Assessment of ecological and economic efficiency of production, M 37.1 Basics of ecological regulation and examination, M 37.2 Environment impact assessment and audit of production		
Academic career	<i>Initial academic position</i>	<i>HEI</i>	<i>Year</i>
	<i>Master's degree (6M060800-Ecology)</i>	M. Auezov South Kazakhstan University, Shymkent city	2013
	<i>Bachelor in Ecology</i>		2011
Employment	<i>Position</i>	<i>Employer</i>	<i>Period</i>
	<i>Laboratory assistant</i>	SRI "Ecology and Biotechnology" M. Auezov South Kazakhstan University, Shymkent city	2013-2014
	<i>Junior scientific employee</i>	SRI "Ecology and Biotechnology" Auezov South Kazakhstan University, Shymkent city	2014-2015
	<i>Lecturer</i>	Department "Agrotechnology" M. Auezov South Kazakhstan University, Shymkent city	2015-2020
	<i>Senior teacher</i>	Department "Ecology" M. Auezov South Kazakhstan University, Shymkent city	2020-to the present day
Research and development projects over the past 5 years	<i>Department project from the state budget MB-16-04-08 "Sustainable development and green technologies of the Southern region of Kazakhstan" for 2021-2025</i>		
Industry collaboration over the past five years	-		
Patents and Copyright certificates	<i>Name</i>		<i>Year</i>
	Zhantasov K. T., Kozakhmetova A.M., Zhantasov M.K., Asilbekova B. K., Zhamanbalayeva G.T., Iztleuova A. B. Patent RK "Method of obtaining complex organo-mineral fertilizer" No. 7539.		2022
Key publications over the past five years	Arailym Nurtayeva, Omirbek Baisbay, Raziya Issayeva, Aigerim Iztleuova, Zhangeldi Kurganbekov. Investigation of Production Wastes Upon Roasting Mechanically Activated Phosphorite and Utilisation of Fluorine Compounds. EVERGREEN Joint Journal of Novel Carbon Resource Sciences & Green Asia Strategy, Vol. 11, Issue 01, pp214-224, March, 2024 https://doi.org/10.5109/7172258		

Full name (in full)	Syzdykova Marzhan Nurlanovna E-mail: maksat.marzhan@mail.ru Scopus ID: 57480156200 https://orcid.org/0000-0002-9603-9743		
Position	<i>Master in ecology</i> Taught modules: M 31 Geocology and nature protection, M 39 Climate change and "Green economy"		
Academic career	<i>Bachelor's degree (Ecology)</i>	M. Auezov South Kazakhstan University,	2013
	<i>Master's degree (Ecology)</i>		2015
	<i>Doctoral studies (Ecology)</i>		2023
Employment	Lecturer of the department "Biology"	M. Auezov South Kazakhstan University,	2015-2023
	Senior lecturer of the department "Ecology"	M. Auezov South Kazakhstan University,	2023-to the present day

Research and development projects over the past 5 years	Grant project AR 22685211 “Technology of biological treatment of organic wastewater using chemotrophic microorganisms” 27 million tenge 2024-2026
Industry collaboration over the past five years	“Technology of biological treatment of organic wastewater using chemotrophic microorganisms” Adam Mickiewicz University, Poland, city of Poznan 04.06-24.06.22 “Technology of biological treatment of organic wastewater using chemotrophic microorganisms” University Putra Malaysia, Malaysia, Kuala Lumpur 20.10.24 - 30.10.24
Key publications over the past five years	1. $Fe_2(SO_4)_3$ and Bentonite Use to Reduce COD Indicators in Wastewater Containing Detergents. Journal of Ecological Engineering, (2022). 23(3), 68-73 (Scopus, 51%). DOI: 10.12911/22998993/145468 2. Buffer Effects in Submersed Denitrifying Biofilter. Journal of Ecological Engineering, 2022, 23(4), 145-154. https://doi.org/10.12911/22998993/146634 (Scopus, 51%). 3. Use of Acidithiobacillus ferrooxidans for Decontamination of Explosive Waste from oil Refineries. Journal of Ecological Engineering, 2023, 24(7), 19-24. (Scopus, 51%). DOI 10.12911/22998993/163250 4. The possibility of using bacterial suspension <i>acidithiobacillus ferrooxidans ach 1</i> as a biocoagulant for wastewater treatment of milk processing enterprises. Industrial Technology and Engineering. 2022, 1 (42): 46-50. 5. Using of Acidithiobacillus ferrooxidans ACH 1 as a biocoagulant for wastewater treatment. 10th Polish-Kazakh Meeting: Relationship Between Chemistry and Biology, International conference, Poland, 2024, P.13-14.
Activities in specialized organizations over the the past five years	Reviewer in the international journal <i>Journal of Ecological Engineering (Scopus) 2025</i>

Full name (in full)	Askerbekova Arailym Myrzakhankyzy E-mail: Arailym.Askerbekova@aezov.edu.kz ScopusID; 59768261400 https://orcid.org/0000-0002-4356-053X		
Position	<i>Master of natural sciences</i> Taught modules: M 29.1 Environmental monitoring, M 29.2 Environmental monitoring of enterprises, M 41.1 Ecological construction, M 41.2 Eco-analytics in construction, M 43.1 Air basin protection, M 43.2 Assessment of ecological and economic efficiency of production, M 45.1 Geoinformation systems in ecology, M 45.2 Modeling in ecology		
Academic career	<i>Bachelor in “Ecology”</i>	Al-Farabi Kazakh National University	2013
	<i>Master's degree in “Ecology”</i>	Al-Farabi Kazakh National University	2015
	<i>Doctoral studies “Production of building materials, products and structures”</i>	L. N. Gumilev Eurasian National University	2024
Employment	Lecturer, Senior lecturer of the department “Ecology”	M. Auezov South Kazakhstan University,	2012 -to the present day
Research and development projects over the past 5 years	<i>Department project from the state budget MB-16-04-08 “Sustainable development and green technologies of the Southern region of Kazakhstan” for 2021-2025</i>		
Industry collaboration over the past five years	“Technological principles of formation of physical and mechanical properties of foam concrete based on secondary raw materials” 15.09-15.10.2023 Tomsk State University of Architecture and Construction, Tomsk, Russian Federation		
Patents and Copyright certificates	Patent of the Republic of Kazakhstan “Method for producing a prolonged-release fertilizer mixture with microelements” No. 2020/11 dated February 23, 2020.		
Key publications over the past five years	1. Effect of a complex modified additive based on post-alcohol bard on the strength behavior of concrete Complex Use of Mineral Resources 2023; 327(4):5-14. https://doi.org/10.31643/2023/6445.34		

	<p>2. Effect of a complex modified additive on the setting time of the cement mixture. – Complex Use of Mineral Resources 2023;325(2):29-38. https://doi.org/10.31643/2023/6445.15</p> <p>3. The influence of a complex modified additive on the quality of foam concrete products. – “Bulletin of EKTU” Engineering Sciences and Technologies. No.2, 2024, C. 5-15. DOI 10.51885/1561-4212_2024_2_5</p> <p>4. Determination of technical characteristics of traditional foam concrete and foam concrete with mineral fiber. - Bulletin of L.N. Gumilyov Eurasian National University Technical Science and Technology Series, No.2(147), 2024, P. 87-97. https://doi.org/10.32523/2616-7263-2024-147-2-87-97</p> <p>5. Technology for the production of foam concrete based on mineral fiber obtained from waste from the production of mineral insulation. - " Bulletin EKTU" Engineering Sciences and Technologies. No.2, 2024, C. 233-240. DOI 10.51885/1561-4212_2024_2_233</p>
Activities in specialized organizations over the the past five years	M. Auezov South Kazakhstan University,

Full name (in full)	Kaldybaeva Botagoz Myrzakmetovna E-mail: botagoz.kalbybayeva@aeuzov.edu.kz Scopus ID: 55990531800 https://orcid.org/0000-0002-1570-2107		
Position	<i>PhD</i> Teaching modules M 30.1 Standardization, certification and metrology, M 30.2 Systems of technical regulation and ensuring the uniformity of measurements		
Academic career	Mechanical Engineer (Specialist),	M. Auezov South Kazakhstan University,	1998
	Bachelor of Engineering and Technology on the EP		2023
	“Standardization and Certification (by Industry)”		2017
	PhD of the EP“Technological Machines and Equipment”		
Employment	Associate Professor (Associate Professor) Diploma No. 1029	M. Auezov South Kazakhstan University,	2024
Research and development projects over the past 5 years	AP09260365-KC-22 "Application of integrated technologies to reduce environmental pollution and improve energy efficiency of industrial territorial complexes" for 2021–2023. Funding amount: 21 million tenge.		
Industry collaboration over the past five years	South Kazakhstan University "Inclusive Education and Training in Higher Education" 13.01.25-24.01.25 (72 hours) No.9196		
Key publications over the past five years	<p>1. «Assessment of renewable energy use in natural gas liquid processing by improved process integration with heat pumps» Advances in Electrical Engineering, Electronics and Energy, 2023. DOI: 10.1016/j.prime.2023.100246</p> <p>2. «Modelling of the Use of Renewable Energies and Energy- Saving Measures for Polymer Chemical Plant» Chemical Engineering Transactions, 2023. DOI: 10.3303/CET23103090</p> <p>3. «OPTIMIZATION OF THE CATHODIC PROTECTION SYSTEM FOR THE MAIN PIPELINES» Radioelectronic and Computer Systems 2023. DOI: 10.32620/reks.2023.3.15</p> <p>4. «Hydrodynamics of cotton filtration drying» Chemistry and Chemical Technology, 2020. DOI: 10.23939/chcht14.03.426</p> <p>5. «Optimisation of heat distribution in Tomsk city by inter-cluster connections model implemented in P-graph environment» SpliTech 2021. DOI: 10.23919/SpliTech52315.2021.9566473</p>		
Activities in specialized organizations over the the past five years	«Best lecturer of the university» 2017		

Full name (in full)	Erkinov Alikhan Abduvakhobovich E-mail: ali.erkinov@mail.ru		
Position	<i>Lecturer</i> Teaching modules: M 32.1 Industrial Ecology, M 32.2 Integrated Environmental Management System		
Academic career	<i>Bachelor's Degree in Life Safety and Environmental Protection</i> <i>Master in Ecology</i>	<i>Sh. Ualikhanov</i> <i>Kokshetau State</i> <i>University</i> <i>M. Auezov South</i> <i>Kazakhstan</i> <i>University.,</i> <i>Shymkent</i>	<i>2016-2020</i> <i>2020-2022</i>
Employment	<i>Position</i> <i>Lecturer</i>	<i>Employer</i> <i>M. Auezov South</i> <i>Kazakhstan</i> <i>University</i>	<i>Period</i> <i>2024-to the present day</i>
Research and development projects over the past 5 years	<i>Department project from the state budget SB-16-04-08 "Sustainable Development and Green Technologies of the Southern Region of Kazakhstan" for 2021-2025</i>		
Industry collaboration over the past five years	Ecosystem and Law. January 27–February 6, 2025. The centre of the scientific research and environmental expertise "KazEcoHolding"		
Patents and Copyright certificates	<i>Name</i> no	<i>Year</i>	
Key publications over the past five years	<p>1. The perspectives of use of biological methods of remediation on crude oil contaminated soil. Scientific journal "South Kazakhstan Science Bulletin - Bulletin of Science of South Kazakhstan", Shymkent 2021, SKU, No.2(14) 2021.</p> <p>2. The effect of biochar on the efficiency of soil cleaning after oil pollution. XII Global Science and Innovations 2021: Central Asia International scientific – practical journal, Nur-Sultan 2021, P. 65-70</p> <p>3. The main ecological problems in using mineral raw materials VI «Global Science and Innovations 2022: Central Asia»International scientific – practical journal, Nur-Sultan 2022</p> <p>4. Proceeding XI International Conference «Industrial Technologies and Engineering» ICITE – 2024, Volume I Shymkent, Kazakhstan November 14, 2024</p> <p>5. Investigation of the rate of biochemical oxidation of iron by the bacterial strain acidithiobacillus ferrooxidans ach 1 used for wastewater treatment. P. 62-64</p> <p>6. Of international scientific-practical conference «Auezov readings – 23: the phenomenon of Abai and new horizons of knowledge» dedicated to the 180th anniversary of the great Abai. Solid waste management of shymkent city P. 58-62</p>		
Activities in specialized organizations over the the past five years	Responsible for professional orientated work of the department "Ecology" 2024-2025 academic year		

Full name (in full)	Iztleuov Gani Moldakulovich E-mail: gani5@mail.ru SCOPUS ID 57210570256, https://orcid.org/0000-0002-5722-342X		
Position	<i>Professor in Environmental engineering</i> Taught modules: M 32.2 Integrated management system in the field of environmental protection		
Academic career	<i>Basic education</i> <i>General Ecology</i>	<i>Kh.A. Yasawi International</i> <i>Kazakh-Turkish University,</i> <i>Turkestan</i> <i>University</i> <i>Kh.A. Yasawi International</i> <i>Kazakh-Turkish University,</i>	<i>1995-1999</i>
	<i>Postgraduate in Ecology</i>	<i>Turkestan</i> <i>Kh.A. Yasawi International</i>	<i>1999-2002</i>
	<i>PhD in Chemical Sciences</i>	<i>Kazakh-Turkish University,</i>	<i>Год</i>

	<i>Electrochemistry HAC professor in the field of Environmental protection engineering</i>	Turkestan D.V. Sokolsky Institute of Electrochemistry at the Academy of Sciences of the Republic of Kazakhstan, Almaty By decision of the CCES and MES of RK	2000-2003 2003 2024
Employment	<i>Position Lecturer, Senior lecturer, Associate professor Professor of the department “Ecology”</i>	<i>Employer Kh.A. Yasawi International Kazakh-Turkish University, Turkestan M. Auezov South Kazakhstan University.</i>	<i>Period 2002-2012 2013-to the present day</i>
Research and development projects over the past 5 years	URN 21882218 “Development of new highly efficient moisture- and resource-saving technologies to increase agricultural crop yields and modernize the agro-industrial complex” 2023-2025, 200 million tenge Performer DP21682037 “Creation of the production facility for fiberglass products and tanks for installing in-house septic tanks” 2023-2025, 300 million tenge Leader		
Industry collaboration over the past five years	Scientific internship on the topic "Development and implementation of groundwater purification technology and provision of drinking water to the population and animals of agricultural enterprises" from November 15-25, 2023, at Izmir University of Technology (Turkey)		
Patents and Copyright certificates	Author's certificate - January 16, 2024 No. 42080, Iztleuov G.M.. FEATURES AND REGULARITIES OF THE MECHANISM FOR SELECTIVE EXTRACTION OF SALT IONS FROM WATER BY POLYAMIDE MEMBRANES.		<i>Year 2024 z.</i>
Key publications over the past five years	<ol style="list-style-type: none"> 1. Hydrogel based on starch, acrylamide and kaoline. <i>Rasayan Journal of Chemistry</i>, 2024, 17(3), pp. 848–854, http://doi.org/10.31788/RJC.2024.1738844 2. Modeling the Structure and Diffusion of Porous Layers. <i>Water (Switzerland)</i>. 16(1).172(2024), DOI 10.3390/w16010172 . 3. Theoretical Researching of Particle Movement in Cleaning Zone of Dust-Arrester. <i>Polish Journal of Environmental Studies</i>, 2023, 32(4), pp. 3007–3014 DOI 10.15244/pjoes/163341 4. Ecologically Friendly, Slow-Release Granular Fertilizers with Phosphogypsum. <i>Polish Journal of Environmental Studies</i>, 2022, 31(3), pp. 2935–2942 DOI 10.15244/pjoes/144099 5. Low-Basicity Cement, Problems and Advantages of its Utilization. <i>Refractories and Industrial Ceramics</i>, 2021, 62(4), pp. 369–374, https://doi.org/10.1007/s11148-021-00610-8 		
Activities in specialized organizations over the the past five years	<i>Organization</i>	<i>Role</i>	<i>Period</i>
	Academic secretary of the dissertation council at M. Auezov South Kazakhstan University in the field of personnel training (doctoral specialty) 8D05210 (6D060800) – “Ecology”, from 2023 to present time		

Full name (in full)	Kenzhibayeva Gulmira Sovetovna E-mail: gulmirasovet@mail.ru SCOPUS ID 57194765048 https://orcid.org/0000-0001-6494-835X
Position	<i>Professor of ecology</i> Taught modules: M 33.1 Wastewater treatment technology of industrial enterprises, M 33.2 Urban waste water treatment, M 34.1 Complex use and protection of water resources, M 34.2 Water treatment technology and technology, M 42.1 Environmental emissions and their calculation, M 42.2 Environmental emission regulation, M 48.1 Environmental protection technology, M 48.2 Economic and environmental assessment of the enterprise

Academic career	<i>Associate professor of Chemical technology</i> <i>PhD of technical sciences Chemical technology Engineer-technologist-ecologist Environmental protection and rational use of natural resources</i>	By decision of the Committee for Quality Assurance in Science and Higher Education of the Ministry of Science and Higher Education of the Republic of Kazakhstan, M. Auezov South Kazakhstan State University, Shymkent	2024 2002 1994
Employment	Lecturer, Senior lecturer, Associate professor, Head of the department “Water Resources, Land Use, and Agricultural Engineering”, Associate professor of the department “CTOS”, Dean of the Higher School “Textile and Food Engineering”, Professor	M. Auezov South Kazakhstan State University,	1994-to the present day
Research and development projects over the past 5 years	AP23487689 “Development of economic and mathematical model for increasing the efficiency of natural resource use in agriculture in the Turkestan region to prevent climate change” for 2020-2025.		
Industry collaboration over the past five years	March 1–May 25, 2022: Research Internship under the Bolashak Scholarship Program (UK, University of Central Lancashire Preston), Certificate from May 25, 2022 1. September 30–October 11, 2024: "Educational Management: Teaching and Learning Strategy," Excellent Educational Centre (Certificate No. 653 from October 11, 2024)		
Patents and Copyright certificates	Copyright Certificate Textbook “Environmental Protection Engineering.” No. 48234, dated July 9, 2024. Copyright Certificate “Development of a Technology for Treating Domestic Wastewater in Shymkent.” No. 37759, dated July 3, 2023.		
Key publications over the past five years	1. Comparison of the Quality of Gas Equipment at Metallurgical and Coke-Chemical Enterprises and Production Plants // Pol. J. Environ. Stud. Vol. 33, No. 5 (2024), 1-10. DOI: 10.15244/pjoes/177442 2. Theoretical Researching of Particle Movement in Cleaning Zone of Dust-Arrester, Pol. J. Environ. Stud. Vol. 32, No. 4 (2023), 1-8. DOI: 10.15244/pjoes/163341 3. Mathematical description of the process of film condensation of vapors from steam-gas mixtures // RASAYAN J. Chem. Vol. 15 No. 3 1905-1915 July - September 2022 4. Teoretical studies of the heat transfer process and the hydrodynamics of a condensate film by numerical experiment // RASAYAN J. Chem. Vol. 15 No. 3 1894-1904 July - September 2022		
Activities in specialized organizations over the the past five years	Accreditation Expert ISO17025 in LLP «EcoHolding Center»		

Full name (in full)	Mukhamedkhanova Ainur Batyrkhanovna e-mail: dia-2808@mail.ru SCOPUS ID 59013489000, https://orcid.org/0000-0003-2685-6125		
Position	<i>Senior Lecturer</i> Taught modules : M 36.1 Engineering Economics and Entrepreneurship M 36.2 Production Organization and Management		
Academic career	<i>Doctor of Philosophy (PhD) 8D04110-Economics</i> <i>Doctoral program in Economics</i> <i>Master in Management</i> <i>Managing Economist</i>	L.N.Gumilyov ENU M. Auezov SKSU. M.Kh.Dulati TarSU Al-Farabi KazNU	2024 2023 2009 2004

Employment	Lecturer of the department “Economics” Senior lecturer of the department “Economics” Senior lecturer of the department “Economics”	Kh.A. Yassawi International Kazakh-Turkish University Regional Social and Innovative University M. Auezov SKSU	2004-2010 2011-2020 2023- to the present day
Research and development projects over the past 5 years	State Budget Research Project B-21-06-09 “Socio-economic problems of deepening Industrialization and Improving the Efficiency of Entrepreneurial Activity in the Region” for 2021-2025.		
Industry collaboration over the past five years	Muğla Sıtı Kocman University, Republic of Türkiye Internship period: April 14, 2022 - May 27, 2022		
Patents and Copyright certificates	No. 23252 dated February 2, 2022 M. Auezov SKU 2022 No. 23251 dated February 2, 2022 No. 23248 dated February 2, 2022		
Key publications over the past five years	<p>1. Directions for Strategic Development of Innovative Entrepreneurial Structures, Bulletin of Karaganda University. Series “Economics” ISSN2518-1998 https://doi.org/10.31489/2022Ec4/ , P.180-187</p> <p>2. Interaction between innovation foresight and ensuring the competitiveness of business structures, Bulletin of National Academy of Sciences of the Republic of Kazakhstan, 2021, Vol. 3, Number 391, https://doi.org/10.32014/2021.2518-1467.103 P. 86-91.</p> <p>3. Competitiveness of business structures in the innovation environment and definition of the concept of «innovation foresight» systematic approach, Bulletin of National Academy of Scien13.ces of the Republic of Kazakhstan, 2021, Vol. 2, no. 390, https://doi.org/10.32014/2021.2518-1467.60. P. 125-132 ,</p> <p>4. The University Perception in the Context of University-City Interaction and its Management. <i>Qubahan Academic Journal</i>, 4(3), (2024). 832–839. https://doi.org/10.48161/qaj.v4n3a1080 Q1 (author correspondent) 75%</p> <p>5. Innovation enterprise development strategy in animal husbandry, <i>Scientific Horizons</i>, 27(4), 189-198. Q3(first author) 49% https://doi.org/10.48077/scihor4.2024.189</p>		
Activities in specialized organizations over the the past five years	M. Auezov SKU 2023 -to the present day		

Full name (in full)	Kenzhalieva Gulmira Duisenbaevna E-mail: nursapa@mail.ru Scopus ID: 57194495766 https://orcid.org/0000-0003-0200-7145		
Position	<i>Associate professor, PhD in Engineering</i> Taught modules: M40.1 Minor Program “Water Management Systems and Water Use”, M40.2 Minor Program “Integrated Water Resources Management,” M40.3 Minor Program “Water Body Restoration”		
Academic career	Basic education in “Ecology and Nature Management” PhD in Engineering “Geoecology”	Taraz State University M. Auezov South Kazakhstan University.	2002 2010
Employment	Lecturer, Senior lecturer of the department “Life Safety” Senior lecturer, Associate professor of the department “Ecology” Head of the department “Water Resources, Land Use, and Agricultural engineering”	M. Auezov South Kazakhstan University.	2003-2010 2011-2024 From 2024 to the present day
Research and development projects over the past 5 years	Scientific researcher project URN BR21882292 “Integrated Development of the Sustainable Construction Industry: Innovative Technologies, Production Optimization, Efficient Use of Resources, and Creation of a Technology Park.” for the 2024-2026, 150 billion tenge		
Industry collaboration over the past five years	Advanced training courses for teaching staff at the Tashkent Chemical-Technological Institute, December 4-9, 2023, certificate No. 000418112021/06		

Patents and Copyright certificates	Copyright Certificate No. 37763 dated July 3, 2023 “Study of the impact of motor vehicles on the environment in the city of Shymkent”
Key publications over the past five years	<ol style="list-style-type: none"> 1. Influence of Heavy Metals on the Environment and Methods of Soil Bioremediation Control. International Journal of ENGINEERING RESEARCH AND TECNOLOGY Volume 13, Nr. (2020). – P. 1120-1125. DOI:10.37624/IJERT/13.6.2020.1120-1125 2. The Issue of Recycling Waste from the Oil Refining Industry for Use in the Production of Rubber Products. International Journal of Engineering Research and Technology. ISSN 0974-3154, Volume 13, Number 6 (2020), pp. 1210-1214. 3. Study of the effect of heavy metals on soil cover and methods of their bioremediation control. News of the academy of sciences of the republic of kazakhstan. Satbayev University. Series of geology and technical sciences. 1 (445) january – FEBRUARY 2021. – 52-58s. https://doi.org/10.32014/2021.2518-170X.8 4. Man-Made Raw Materials for the Production of Composite Silicate Materials Using Energy-Saving Technology. J. Compos. Sci. 2023, 7, 124. https://doi.org/10.3390/jcs7030124 5. Utilization of banana peel-derived activated carbon for the removal of heavy metals from industrial wastewater. Case Studies in Chemical and Environmental Engineering Volume 10, December 2024, 100791
Activities in specialized organizations over the the past five years	<p>Head of the department “Water Resources, Land Use, and Agricultural Engineering” at M. Auezov South Kazakhstan University since 2024.</p> <p>Expert in the natural sciences and mathematics at the National Testing Center of the Ministry of Higher Education and Science of the Republic of Kazakhstan since 2023.</p>

Full name (in full)	Zhekeyev Malik Kassymovich e-mail: malikZhekeyev@mail.ru Scopus Author ID: 55235102500, https://orcid.org/0000-0002-2357-626X		
Position	<i>Professor of Ecology</i> Taught modules: M 48.1 Environmental Engineering, M 48.2 Economic and Environmental Assessment of Enterprise Performance		
Academic career	<i>TIS</i>	<i>KazChTI</i>	<i>1976</i>
	<i>Initial academic position</i>	<i>University</i>	<i>Year</i>
	<i>Doctor of technical sciences</i>	<i>Junior researcher,</i>	<i>1976</i>
	<i>Professor, Academician of the Academy of pedagogical sciences of the Republic of Kazakhstan</i>	<i>senior researcher</i>	<i>2004</i>
		<i>associate professor of KNSF</i>	<i>2004</i>
		<i>SKSU</i>	
Employment	<i>Position</i>	<i>Employer</i>	<i>Period</i>
	<i>Engineer</i>	<i>KazNRI</i>	
	<i>Engineer, Junior researcher, Senior researcher, Lab head,</i>	<i>Giprophosphorus Shymkent</i>	<i>At present</i>
	<i>Head of the certification and metrology center</i>	<i>M. Auezov South Kazakhstan University</i>	
	<i>Head of research and development, Head of the chemical technology of natural resources department,</i>		
	<i>Head of the department “Technology and automation”, Professor</i>		
Research and development projects over the past 5 years	Head of the International Project “Water Harmony” for 2012–2021, jointly with Norway and Ukraine. Funding: €30 million.		
Industry collaboration over the past five years	Norwegian University of Life Sciences, June-July 2022, on the theme “Water treatment, management of water sources”		
Patents and Copyright certificates	-		
Key publications over the past five years	1. Ecological culture of society through environmental education. Modern education. No. 3 (1126), 2019, pp. 76-77.		

	<p>2. Mechanisms for removing phosphorus species through sequential coagulation using inorganic coagulants and organic polymers. Editorial board of the scientific journal «Journal Water Science and Technology» 2025 г.</p> <p>3. Some Environmental Challenges of the South Kazakhstan and Managing Them. IV International Scientific and Technical Conference "Innovative Development of Resource-Saving Technologies and Rational Use of Natural Resources", November 12, 2021. The conference proceedings are posted on the official websites of the University of Petrosani (Romania): https://www.upet.ro/cercetare/manifestari/ <u>Ukraine 2021 Book of Abstracts.pdf</u> National University of Water Management and Nature Management (Ukraine) http://ep3.nuwm.edu.ua/22061/p.64-69.</p> <p>4. Rational use of water resources in the Republic of Tajikistan. "Use of natural resources, ecology and sustainable development" within the framework of the international decade for action "Water for sustainable development" 2018-2028. September 24, 2022. Buston, Tajikistan, pp. 113-116.</p> <p>5. Softening of recycled water at beneficiation plants. "Water for sustainable development" 2018-2028. September 24, 2022. Buston, Tajikistan, pp. 81-85. Water science and technology journal</p>
Activities in specialized organizations over the the past five years	<p>Member of the Industry Council under the Ministry of Industry and New Technologies of the Republic of Kazakhstan on the Development of the Chemical Industry and Personnel Training; Member of the International Council on the Development of the Nitrogen Industry in Russia, Kazakhstan, Turkey and the Balkan Countries; Expert of the Ministry of Education and Science of the Republic of Kazakhstan in the areas of chemical technology, ecology, materials for the construction industry; Member of the editorial board of the scientific journal "Water and Water Treatment Technologies. Scientific and Technical News" (Kyiv, Ukraine); Member of the editorial board of the scientific journal "Bulletin of Science of South Kazakhstan", Shymkent, member of the international water association International Water Association (IWA), No. ID 1615883.</p>

Full name (in full)	<p>Shingisbaeva Zhadra Atirkhankyzy E-mail: Zhadra.Shingisbaeva@aeuzov.edu.kz SCOPUS ID 57203806270, https://orcid.org/0000-0002-2846-9252</p>		
Position	<p><i>Professor of Ecology</i> Taught modules: M 50 Writing and defending a thesis, a diploma project, or preparing and passing a comprehensive exam</p>		
Academic career	<p><i>Initial academic position</i> <i>Ecological engineer</i> 17.03-Applied Ecology</p> <p><i>Master in Engineering and Technology</i> 3902-HTNSViM</p> <p><i>PhD in Technical sciences</i> 25.00.36-Geoecology Associate professor in Ecology</p>	<p><i>University</i> M. Auezov South Kazakhstan State University . M. Auezov South Kazakhstan State University. MES RK MES RK</p>	<p><i>Year</i> 2000 2002 2007 2011</p>
Employment	<p>Associate professor of the department "Ecology" Professor of the department "Ecology" Head of the department "Ecology" Professor of the department "Ecology"</p> <p>Director of the "Rae Kwon Chung Center for new climate economics and sustainable development"</p>	<p>M. Auezov South Kazakhstan University.</p>	<p><i>Period</i> 2000- to the present day 2022- to the present day</p>
Research and development projects over the past 5 years	<p>SNA Agreement No. 199 of March 3, 2017, "Development of Technologies for Obtaining New Efficient Materials for the Oil and Gas Industry from Oil and Fat Industry Waste" (2017). SNA Agreement No. 203-10 of March 3, 2017, "Improving Aerosol Gas Purification Technology" (2017).</p>		

	SNA Agreement No. 03-15/2017, “Development of the Technology for Recycling Distillate Liquid Using Natural Sodium Sulfate from the Aral Sea Region” Researcher and Lecturer, ERASMUS+ Project “Economics, Ecology, and Infrastructure at High-Speed Railways,” 598817-EPP-1-2018-1-DE-EPPKA2-CBHE-JPEIHSR
Industry collaboration over the past five years	
Patents and Copyright certificates	The certificate of state registration of rights to the copyright object “Economics of Nature Use” (computer program-electronic learning tool) was obtained (No. 2248, July 3, 2018) The certificate of state registration of rights to the copyright object for the computer program “Ecology and sustainable development” was obtained (No. 2249, July 3, 2018) The certificate of state registration of rights to the copyright object for the computer program “Rational use of natural resources” was obtained (No. 2435, July 23, 2018)
Key publications over the past five years	Polymeric Coatings Based on LDPE and Taurit: Preparation, Structure, and Mechanical Properties // Journal of Pipeline Systems Engineering and Practice Volume 11, Issue 1, 1 February 2020. The study of physical and chemical properties of water-soluble polymer reagents and their compatibility with antibiotics // Rasayan Journal of Chemistry, Volume 13, Issue 3, 2020, Pages 1417-1423.
Activities in specialized organizations over the the past five years	Executor of the international project ISTC “Bactericidal and zeolite filters for cleaning and disinfection of drinking water” participating countries: Georgia, Armenia, collaborators Japan, USA, Greece, Bulgaria, Sweden, Australia).

Full name (in full)	Abduova Aisulu Alshinbekovna E-mail: Aisulu.Abduova@aeuzov.edu.kz SCOPUS ID 55235102500, https://orcid.org/0000-0002-2357-626X		
Position	<i>Associate professor</i> Taught modules: M 50 Writing and defense of a diploma thesis, a diploma project or preparation and passing of a complex exam		
Academic career	<i>Initial academic position</i> <i>PhD of technical sciences</i> <i>Melioration, recultivation and land protection</i> <i>Applied ecology of water and agriculture</i> <i>Environmental engineer</i>	<i>HEI</i> <i>M.Kh. Dulati Taraz State University,</i> <i>Taraz city</i> <i>M. Kh. Dulati Taraz State University</i>	<i>Year</i> 2010 1995-2000
Employment	Senior lecturer of the department “Ecology” Deputy dean of the Higher School “Chemical Engineering and Biotechnology” for scientific work and innovations Head of Department “Ecology”	M. Auezov South Kazakhstan University	2015- to the present day
Research and development projects over the past 5 years	The executive of the international project together with the State University of Michigan (USA) “Investigation of the ecological state of the Aral Sea”. 2021 Head of the project of grant funding for scientific and (or) scientific and technical projects for 2024-2026 MES RK “Development of innovative technologies of eco-construction modules for urban sanitation” No. 259-GF dated September 9, 2023.		
Industry collaboration over the past five years	25.05.2024-25.11.2024- Scientific internship under the program “Bolashak” 500 scientists, USA, University of Illinois Urbana-Champaign		
Patents and Copyright certificates	Patent of the Republic of Kazakhstan for utility model / Parent for utility model RK No. 7445 09.16.2022 Apparatus for growing Arabidopsis thaliana L. plants by hydroponics / Apparatus for growing Arabidopsis thaliana L. plants by hydroponics		
Key publications over the past five years	<i>Selected recent publications from a total of approximately (indicate the total number): 108</i> 1.. COENOFLOA OF SPIRAEANTHUS SCHRENKIANUS (Fisch. And C.A. Mey.) Maxim.A. SABRAO Journal of Breeding and Genetics- Kochi ,Japan, 2022. –Volume 54,Issue1, pp.184-192. CiteScore 2023-1.9,SJR 2023-0.276.Percentile: Agricultural and Biological Sciences.(Horticulture)-46% http://doi.org/10.54910/sabrao2022.54.1.1 2. Separation of water systems containing surfactants. Rasāyan journal of chemistry-Jaipur, India , 2022.- Volume 2022 (Special Issue), pp.233-238. CiteScore 2023-1.9,SJR 2023-0.220		

	Percentile:Energy(GeneralEnergy)-37% ISSN: 0974-1496,09760083; DOI: 10.31788/RJC.2022.1558200 3. Man-Made Raw Materials for the Production of Composite Silicate Materials Using Energy-Saving Technology. Journal of Composites Science- Basel, Switzerland,2023. –Volume 7,Issue 3, pp.19-23. https://doi.org/10.3390/jcs7030124 4. Utilizing biofilm-enhanced coconut coir for microplastic removal in wastewater. Case Studies in Chemical and Environmental Engineering- Ingolstadt ,United Kingdom, 2024.-Volume 9, 100726. Scopus Cite Score 2023: 9.2 , SJR 2023 -1.283 Percentile: Engineering (miscellaneous) – 90% https://doi.org/10.1016/j.cscee.2024.100726 5. Improving the Methods of Solid Domestic Waste Disposal to Reduce Its Human Impact on the Environment. Sustainability (Switzerland) – Basil, Switzerland, 2024, -Volume16, Issue 24, 11071. DOI: 10.3390/su162411071		
Activities in specialized organizations over the the past five years	<i>Organization</i>	<i>Role</i>	<i>Period</i>

Full name (in full)	Asilbekova Botagoz Kairatovna E-mail: botik---92mail.ru https://orcid.org/0000-0002-8639-1713		
Position	<i>Master in ecology</i> Taught modules: M 23.1 Ecosystem and law		
Academic career	<i>Bachelor (Ecology)</i>	M. Auezov South	2014
	<i>Master's degree (Chemical technology of organic substances)</i>	Kazakhstan University	2016
Employment	Lecturer of the department “Ecology”	M. Auezov South Kazakhstan University	2016-to the present day
Research and development projects over the past 5 years	<i>Department project from the state budget SB-16-04-08 “Sustainable development and green technologies of the Southern region of Kazakhstan” for 2021-2025</i>		
Industry collaboration over the past five years	-		
Patents and Copyright certificates	On the theme “Method for obtaining complex organomineral fertilizers” No.7539		2022
	On the theme “Purification of waste from nitric acid production and reduction of environmental impact”. No.25969		2022
Key publications over the past five years	1. «The problem of water pollutants in Chymkent» Monography. Penza, 2021. 146 p. 2. The impact of industrial and household waste on the human body. Proceedings of the International Scientific and Practical Conference “Auezov Readings-22: Academician Kanysh Satpayev - the founder of Kazakh science”dedicated to the 125th anniversary of Academician Kanysh Satpayev - Shymkent: M. Auezov SKRU, 2024. 2-1, P.184-187 3. Production of fuel mixture based on breaked silicon -Phosphate raw material and CHP waste “Bulletin of the National Academy of Sciences of the Republic of Kazakhstan. Series of Chemistry and Technology” No. 2, Almaty, NAS RK. 2022, p.103-111 4. The study of the productive longevity of multicomponent pastures under different terrain conditions. Bulletin of Kyzyl-Orda University, 2, pp. 67–71, 2025.		
Activities in specialized organizations over the the past five years	<i>Organization</i>	<i>Role</i>	<i>Period</i>

Full name (in full)	Kozybaev Ermakhan Tastanbekovich e-mail: Kozybaev_ermahan@mail.ru		
Position	<i>Lecturer- practitioner</i> Taught modules: M 28 Industrial Internship I, M 39 Industrial Internship II, M 50 Pre-graduation or Industrial Internship		

Academic career	Basic education: Applied ecology	M. Auezov South Kazakhstan University	2002
Employment	Head of the department for Ecology in the city of Shymkent	Department of Ecology for the city of Shymkent	From 2010 – to the present day
Research and development projects over the past 5 years	-		
Industry collaboration over the past five years	-		
Patents and Copyright certificates	-		
Key publications over the past five years	-		
Activities in specialized organizations over the the past five years	Head of the department for Ecology in the city of Shymkent since 2010		

Full name (in full)	Pernebaev Zhaksylyk Dauletbayuly e-mail: Pernebaev.sh.d@mail.ru Scopus ID: 59661568900 https://orcid.org/0000-0002-1462-5998		
Position	<i>Master, Lecturer-Practitioner</i> Taught modules: M 28 Industrial Internship I, M 39 Industrial Internship II, M 50 Pre-Graduation or Industrial Internship		
Academic career	Bachelor in Ecology	K. Satbayev KazNTU	2013
	Master's Degree in Ecology	M. Auezov South Kazakhstan State University	2017
	Doctoral studies in Ecology		2025
Employment	Director	JSC “Center for Scientific Research and Environmental Expertise “KazEcoHolding”	From 2010 – to the present day
Research and development projects over the past 5 years	Grant funding for young scientists under the “Zhas Galym” project AP25795537 “Ecological assessment of lead-zinc slag disposal sites on environmental objects and development of a technology for the reclamation of slag dumps.” Funding: 30 million tenge.		
Industry collaboration over the past five years			
Patents and Copyright certificates	1) The influence of lead-zinc wastes on the formation of phytocenoses Certificate of entry of information into the state register of rights to objects protected by copyright, dated April 17, 2025, No. 56867 2) The influence of soil contamination with lead and cadmium ions on the formation of phytocenoses in contaminated areas Certificate of entry of information into the state register of rights to objects protected by copyright, dated April 17, 2025, No. 57022		
Key publications over the past five years	1) Ecological assessment of the environmental state in the area of Polymetal waste storage in the Southern of Kazakhstan, International Journal of Innovative Research and Scientific Studies, 8(1) 2025, pages: 1499-1506. 2) Effect of lead toxicity on seed germination in wild plant species of Southern Kazakhstan, International Journal of Innovative Research and Scientific Studies, 8(3) 2025, pages: 98-104.		
Activities in specialized organizations over the the past five years	Other professional, scientific and technical activities not included in other groups		

Full name (in full)	Kyrykbay Bakytzhan Yesirkepuly e-mail: Kyrykbay_79@mail.ru		
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Position	Master, Senior lecturer-practitioner <i>Taught modules: M 28 Industrial Internship I, M 39 Industrial Internship II, M 50 Pre-Graduation or Industrial Internship</i>		
Academic career	Bachelor's Degree in Applied Ecology Master's Degree in Applied Ecology	M. Auezov South Kazakhstan State University	2002 2003
Employment	Director	Syr Darya-Turkestan State Regional Nature Park	<i>From 2005 – to the present day</i>
Research and development projects over the past 5 years			
Industry collaboration over the past five years			
Patents and Copyright certificates			
Key publications over the past five years			
Activities in specialized organizations over the the past five years			

Full name (in full)	Kaldybaev Almaz Bakhytovich e-mail: almich84@mail.ru		
Position	Master, Senior Lecturer-practitioner <i>Taught modules: M 28 Industrial Internship I, M 39 Industrial Internship II, M 50 Pre-Graduation or Industrial Internship</i>		
Academic career	Bachelor's degree in Chemical Machinery and Equipment Master's degree in Technological Machinery and Equipment	M. Auezov South Kazakhstan State University	2007 2009
Employment	The head	LLP «Aimarkus»	<i>From 2005 – to the present day*</i>
Research and development projects over the past 5 years			
Industry collaboration over the past five years			
Patents and Copyright certificates			
Key publications over the past five years			
Activities in specialized organizations over the the past five years			

Full name (in full)	Dr. C. T. Aravindakumar E-mail: aravindakumar64017@gmail.com Scopus ID: 6603918926 https://orcid.org/0000-0002-9157-7539		
Position	Invited Professor <i>Taught modules: M 39 Climate Change and Green Economy</i>		
Academic career	Basic education Bachelor of Science (B.Sc) (Chemistry) Master of Science (M.Sc) (Physical Chemistry)	University of Kerala University of Pune	1986 1988

	Doctor of Philosophy (Ph.D)	University of Pune*	1992
Employment	Lecturer in Chemistry, School of Chemical Sciences Reader, School of Chemical Sciences Professor, School of Chemical Sciences Professor, School of Environmental Sciences	Mahatma Gandhi University, Kottayam, India	1993-2002 2002-2009 2009-2010 2010- to the present day
Research and development projects over the past 5 years	Funding Agency: Nuclear Science Centre, New Delhi 2019-2021 pr. «Heavy ion radiolysis studies of some substituted benzenes and heterocyclic systems in aqueous medium».		
Industry collaboration over the past five years	Water DTU 3 rd Partner Seminar, Technical University of Denmark, Copenhagen, May 23-24, 2017		
Patents and Copyright certificates	Method for improving the comparative tracking index of polymer composites, Indian Patent Application No:4239/CHE/2014, Uros Cvelbar, Sabu Thomas.		
Key publications over the past five years	<p>1. M. Vishnu Sreejith, K.S. Aradhana, M. Varsha, M.K. Cyrus, C.T. Aravindakumar, Usha K. Aravind, ATR- FTIR and LC-Q-ToF-MS analysis of indoor dust from different micro-environments located in a tropical metropolitan area, Science of the Total Environment, 2021</p> <p>2. John Richard Thomas, V. Sreejith, U.K. Aravind, S. K Sahu, P. G. Shetty, M. Swarnakar, R. A. Takale, Gauri Pandit, C. T. Aravindakumar, Outdoor and Indoor natural background gamma radiation across Kerala, India, Environmental Science: Atmospheres, 2021</p> <p>3. K.K. Nejumal, Usha K Aravind and C.T. Aravindakumar, "Identification and ecological hazard analysis of contaminants of emerging concern (CECs) in water bodies located in a coastal metropolitan environment", Water, Air, & Soil Pollution, 2021</p> <p>4. Subha Sasi, Manoj P. Rayaroth, C. T. Aravindakumar and Usha K. Aravind, Alcohol Ethoxysulfates (AES) in Environmental Matrices (review), Environmental Science and Pollution Research, 2021</p> <p>5. Manjumol Mathew, D. Lekshmi, C.T. Aravindakumar, Usha K. Aravind, Potential Involvement of Environmental Triggers in Protein Aggregation with Mercuric Chloride as a Model, International Journal of Biological Macromolecules, 2021, 174, 153-161</p>		
Activities in specialized organizations over the the past five years	Hon. Director, International Centre for Polar Studies, Hon. Director, Inter University Instrumentation Centre, (Govt. of Kerala) MGU Campus		