

Personnel Handbook (Staff Handbook)

Full name, academic degree and title	Abdullaev Elnur Akhmatovich, PhD, Associate Professor			
Teaching area	Electrical networks and systems, Mathematical issues of energy, Reliability of power supply, Power supply and systems, Alternative energy sources in the power supply system			
Academic education	Associate Professor's degree	Supreme Attestation Committee, Tashkent, Uzbekistan		2024
	Doctor of Philosophy in Technical Sciences	Tashkent Technical University Tashkent		2023
	Power plants (master's degree)	Tashkent Technical University, Tashkent		2013-2015
	Electrical Power Engineering (Bachelor)	Tashkent Technical University, Tashkent		2009-2013
Work experience	Associate Professor of the Department of “Energy and Electro technologies”	JizPI		2024-2023
	Associate Professor of the Department of “Energy”	JizPI		2023-2022
	Deputy Dean for Academic Affairs, Faculty of Power Engineering and Radioelectronics	JizPI		2019-2022
	Senior Teacher of the Department "Electroenergetics"	JizPI		2019-2015
	Assistant Teacher of the Department "Electroenergetics"	JizPI		2019-2015
Research and development over the last 5 years	Optimization of load schedules of enterprises with renewable energy sources			
Industry cooperation over the past 5 years	Implementation of DUAL education in high education Partners : Manufacturing enterprises in Jizzakh region			
Patents and Intellectual Property	1.O‘zbekiston Respublikasi Adliya vazirligi huzuridagi intellektual mulk agentligi. Ma’lumotnoma № DGU 15237 2.O‘zbekiston Respublikasi Adliya vazirligi huzuridagi intellektual			

	<i>mulk agentligi. Ma'lumotnoma № DGU 16446</i>
Important publications over the last 5 years	<i>Selected recent publications.</i> <i>(indicate total number): 8</i> 1. Fotoelektr stansiya va dizel generatoriga ega bo'lgan avtonom elektr tizimining sutkalik ish holatini optimallashtirish. "Energiya va resurs tejash muammolari" ilmiy texnik jurnal. №1 – 2022. – 38-50 b. 2. Optimization of Load Schedules of Enterprises with Hybrid Power Plants Operating on Renewable Energy Sources. International Journal of Advanced Research in Science, Engineering and Technology. Vol. 10, Issue 2, February 2023. – pp. 20372- 20376. 3. Shamol qurilmasiga ega bo'lgan korxonaning sutkalik elektr yuklama grafigini optimallashtirish. "Energiya va resurs tejash muammolari" ilmiy texnik jurnal. №1. Toshkent – 2023. – 59-69 b. 4. Solar Energy Resources And Their Rate Of Development. International Journal of Academic Engineering Research (IJAER). Vol. 5 Issue 4, April 2021, Pages: 62-64 5. Perspectives on the Application of Alternative Energy Sources. International Journal of Engineering and Information Systems (IJEAIS). Vol. 5 Issue 4, April - 2021, Pages: 263-265 6. Study the Possibilities of Using Solar Energy. International Journal of Engineering and Information Systems (IJEAIS). Vol. 5 Issue 4, April - 2021, Pages: 94-96 7. Optimization of loading schedules of consumers with own stations on the basis of renewable energy sources. Journal of critical reviews. – 2020. – pp. 1738-1742. 8. Optimization of daily operation mode of photovoltaic systems of enterprises. E3S Web of Conferences 264, 04063 (2021) CONMECHYDRO – 2021. – pp. 1-8.
Activity in specialized bodies over the past 5 years	<i>Editorial Board Member of Online American Journal of Applied Science and Technology ,</i> https://theusajournals.com/index.php/ajast

Full name, academic degree and title	Parsokhonov Abdulkobi Gafurovich, PhD, Associate Professor		
Teaching area	<i>Control theory, Electrical machines, Design of electrical machines</i>		
Academic education	<i>Master of Science Degree in Mechanical Engineering</i>	<i>Universities of Huelva (Spain), Minho (Portugal) and Ljubljana (Slovenia). Erasmus Mundus, EURHEO</i>	<i>2010</i>
	<i>Associate professor degree</i>	<i>Supreme Attestation Committee, Tashkent, Uzbekistan</i>	<i>2002</i>
	<i>Candidate of science degree in Solid State Physics</i>	<i>Jizzakh Polytechnic Institute (Jizzakh), Nuclear Physics Institute (Tashkent), Atom Energy Institute (Moscow)</i>	<i>1991</i>
	<i>Electrical Engineer in Automatics and Telemechanics, Diploma with Honour</i>	<i>Tashkent Polytechnic Institute, Tashkent</i>	<i>1983</i>
Work experience	<i>Associate Professor of the Department of “Electro technologies”</i>	<i>JizPI</i>	<i>2021</i>
	<i>Head of the Department of “Electro technologies”</i>	<i>JizPI</i>	<i>2020-2021</i>
	<i>Associate Professor of "Electroenergetics" Department</i>	<i>JizPI</i>	<i>2019-2020</i>
	<i>Director of Academic Lyceum of JizPI</i>	<i>JizPI</i>	<i>2028-2019</i>
	<i>Vice-rector in working with the Academic Lyceums and Colleges</i>	<i>JizPI</i>	<i>2011-2018</i>
	<i>Head of the Department of International Affairs</i>	<i>JizPI</i>	<i>2010-2011</i>
	<i>Erasmus Mundus EURHEO student</i>	<i>Universities of Huelva (Spain), Minho (Portugal) and Ljubljana (Slovenia)</i>	<i>2008-2010</i>
	<i>Head of the Department of International Affairs</i>	<i>JizPI</i>	<i>2005-2008</i>

	<i>Head of the Physics Department</i> <i>JizPI</i> <i>1998-2005</i> <i>Senior Teacher</i> <i>JizPI</i> <i>1992-1998</i> <i>Assistant Teacher</i> <i>JizPI</i> <i>1985-1992</i> <i>Scientific Researcher</i> <i>JizPI</i> <i>1993-1995</i>
Research and development over the last 5 years	<i>Research in alternative sources of renewable energy</i>
Industry cooperation over the past 5 years	<i>Implementation of DUAL education in high education</i> <i>Partners : Manufacturing enterprises in Jizzakh region</i>
Patents and Intellectual Property	<i>1 Patent: IAP 05611 UZ. May 18, 2018</i>
Important publications over the last 5 years	<i>Selected recent publications.</i> <i>(indicate total number): 9</i> 9. A. Parsokhonov; O. Nurullaev; A. Akhmedov. <i>AIP Conf. Proc.</i> 3256, 050006 (2025) https://doi.org/10.1063/5.0266802 . 10. Parsokhonov, A., Nurullayev, O., & Akhmedov, A. (2025). An Alternative Renewable Energy Source: Thermal Expansion and Contraction of Materials. <i>Online Journal of Engineering Sciences</i> , 4(1), 1 – 12. DOI: 10.31586/ojes.2025.6087 11. A A Mustafakulov, O N Olimov, A G Parsokhonov, A A Akhmedov and O U Nurullaev. Study of the luminescence of SiO ₂ crystals. ICMSIT-III-2022. IOP Publishing. <i>Journal of Physics: Conference Series</i> 2373 (2022) 082025. doi:10.1088/1742-6596/2373/8/082025. 12. A Parsokhonov et al 2022 IOP Conf. Ser.: Earth Environ. Sci. 1076 012010. https://iopscience.iop.org/article/10.1088/1755-1315/1076/1/012010/pdf 13. A. Parsokhonov, U. Yuldashev, O. Nurullaev, O. Olimov, A. Akhmedov, A. Bekmurzaev, F. Sayliev. A Device For Electricity Generation Using Alternative Renewable Energy Sources. <i>Acta of Turin Polytechnic University in Tashkent</i> , 2022, 30, 39-44. http://www.acta.polito.uz/

Activity in specialized bodies over the past 5 years	<i>Editorial Board Member of Online Journal of Engineering Sciences,</i> https://www.scipublications.com/journal/index.php/ojes/editors <i>Reviewer of American Journal of Environmental Science and Engineering,</i> http://www.sciencepg.com/journal/529/reviewers
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Full name, academic degree and title	Anarboyev Muhiddin Almanovich , PhD Associate Professor		
Teaching area	<i>Harvesting energy from alternative energy sources, Energy systems and devices for using solar energy , Designing, Installation and Operational Readiness of Energy Systems Based on Alternative Energy Sources,</i>		
Academic education	<i>Doctor of Philosophy in Technical Sciences</i>	<i>TSTU</i>	<i>2021</i>
	<i>Power Engineer</i>	<i>TSTU</i>	<i>1994</i>
Work experience	<i>Transferred to the position of Deputy Director of the Scientific and Practical Center for Alternative Energy Research at the Jizzakh Polytechnic Institute.</i> <i>Center for Alternative Energy Research at the Jizzakh Polytechnic Institute.</i> <i>2023</i> <i>Changes were made to the employment contract, transferred to the position of acting associate professor of the Department of Electrical Power Engineering.</i> <i>Department of Electrical Power Engineering.</i> <i>2023</i> <i>Changes were made to the employment contract, he was hired as the head of the Department of Electrical Power Engineering.</i> <i>Department of Electrical Power Engineering.</i> <i>2018-2023</i> <i>Changes were made to the employment contract; transferred to the position of senior lecturer until the competition is held.</i> <i>senior lecturer until the competition is held.</i> <i>2014-2018</i> <i>Accepted as an assistant at the Department of Electrical Power Engineering and Physics at the Jizzakh Polytechnic Institute.</i> <i>Accepted as an assistant at the Department of Electrical Power</i> <i>2008-2014</i>		

	<i>Hired for the position of maintenance electrician at the Pshagorskaya substation of the Zominsky RES of JSC Jizzakh Electric Networks.</i> <i>Zominsky RES of JSC Jizzakh</i> <i>2004-2008</i> <i>Transferred to the position of duty electrician of the SUFA substation.</i> <i>SUFA substation.</i> <i>1994-2004</i>
Research and development over the last 5 years	Electromagnetic current-to-voltage transducers with advanced functionality for reactive power control
Industry cooperation over the past 5 years	<i>Anarboyev Muhiddin Almanovich is participating in the innovative grant project IOT 2013-2-28 funded by the State Budget in 2014, in the grant project "Adaptation to climate change in inhabited areas of Uzbekistan - demonstration at the "Furkat" farm in the Pakhtakor region of Mirzachol" funded by the German government in 2016, and currently in the project "Development of the targeted Educational program for Bachelors in Solar Energy in Uzbekistan (DEBSEUZ)" of the European Union ERASMUS+ CBHE program No. 101128871-DEBSEUZ-ERASMUS-EDU-2023-CBHE. Within the framework of this project, Anarboyev Muhiddin Almanovich participated in a training organized at the Politecnico di Torino University in Turin, Italy, from May 18 to May 27, 2024. Today, he is also involved in creating educational literature as part of the project.</i>
Patents and Intellectual Property	Patents <i>PY3 IAP 04907 B.II. № 6, 2014</i> <i>DGU 07500, № DGU 07373.</i>
Important publications over the last 5 years	<i>Selected recent publications.</i> <i>(indicate total number): 6</i> 1.Mukhiddin Anarboev, Bambang Bagus Harianto, Ghaidaa Raheem Lateef Al-Awsi, Ramaswamy Sivaraman , Vadim V. Ponkratov , Serge Lawrencenko, Surendar Aravindhan, Tatiana A. Bloshenko, Iskandar Muda Development of a Hybrid System Model for Enhanced Lifespan, Energy Efficiency, and Power Quality in Fuel Cells. Mathematical Modelling of Engineering Problems Vol. 10, No. 3, June, 2023, pp. 879-885 Journal homepage: http://iieta.org/journals/mmep. 2.Anarboev.M, Khonturaev.I, Khasanov.M, Suyarov.A, Jalilov.U.

	Atom Search Optimization Algorithm for Allocating Distributed Generators in Radial Distribution Systems. E3S Web Conf. Volume 264, 2021 International Scientific Conference “Construction Mechanics, Hydraulics and Water Resources Engineering” (CONMECHYDRO - 2021). 3.M.Anarboev, Sh.Qushakov, A.Mirzabaev, M.Eshkulov, B.Narimonov, F.Rahmanov. Design and Engineering of Photovoltaic Power Generation System. 2024 IEEE 25th International Conference of Young Professionals in Electron Devices and Materials (EDM) 2024-28-Iyun. 4.Anarboev M.A, Tulakov J.T.. Uch fazali sezgir elementli o‘zgartgichning statik tavsiflari. Mashinasozlik ilmiy texnika jurnali. 2.2022 ISSN:2181-1539. 5.Anarboev M.A., Rakhmonov F. Electromagnetic switches of electrical energy parameters. American Journal of Technology and Applied Sciences ISSN (E): 2832-1766 Volume 34, March - 2025 6.M.Anarboev., U. Sarimsoqov. Bino va inshootlarning elektr energiyasi ta’minotida nazorat va boshqaruv o‘zgartgichlarining turlari. Me morchilik va qurilish muammolari (ilmiy-texnik jurnal) 2022.2 ilmiy-jurnal@mail.ru.
Activity in specialized bodies over the past 5 years	<i>Since December 10, 2024, he has been working as a member of the editorial board of the International Journal of Studies in Advanced Education.</i> <i>He wrote a review of the dissertation abstract he prepared for the degree of Doctor of Philosophy (PhD) in 3 technical disciplines in 2021-2025:</i>

Full name, academic degree and title	<i>Ikromjon Munavvarovich Khonturaev, Senior Lecturer</i>		
Teaching area	<i>Electrical safety and reliability, Transient processes and overvoltage</i>		
Academic education	<i>Electrical Power Engineer</i>	<i>Jizzakh Polytechnic Institute</i>	<i>2000</i>
Work experience	<i>Senior Lecturer of the Department of Energy and Electrical Technology at Jizzakh Polytechnic Institute</i> <i>JizPI</i> <i>2025</i> <i>Head of the Department of Energy and Electrical Technology at Jizzakh Polytechnic Institute</i> <i>JizPI</i> <i>2023-2025</i> <i>Senior Lecturer of the Department of Energy at Jizzakh Polytechnic Institute</i> <i>JizPI</i> <i>2018-2023</i> <i>Assistant of the Department of Electrical Power Engineering at Jizzakh Polytechnic Institute</i> <i>JizPI</i> <i>2013-2018</i> <i>Deputy Head of Electricity Sales at the Zomin Power Supply Enterprise</i> <i>Zomin District</i> <i>2012-2013</i> <i>Dispatcher of the Educational and Methodological Department, Jizzakh Polytechnic Institute</i> <i>JizPI</i> <i>2012-2012</i> <i>Assistant of the Department of Electrical Power Engineering and Physics, Jizzakh Polytechnic Institute</i> <i>JizPI</i> <i>2008-2012</i> <i>Deputy Head of the Educational and Methodological Department, Jizzakh Polytechnic Institute</i> <i>JizPI</i> <i>2007-2008</i> <i>Technician of the Yangiobod District Network, Jizzakh Electric Networks Joint Stock Company</i> <i>Yangiobod District</i> <i>2007-2007</i>		

	<i>Assistant of the Department of Electrical Power Engineering, JizPI</i> 2002-2005 Jizzakh Polytechnic Institute <i>Manager of the Anor Farmer's Household Farm, Zomin District, Jizzakh Region</i> Zomin District 2001-2002 <i>Controller of the Electric Networks Enterprise of Jizzakh District, Jizzakh Region</i> Zomin District 1997-2001 <i>Boarding School for Gifted Children in Zomin District, Jizzakh Region</i> Zomin District 1995-1997 <i>Secretary of the Youth Union Committee of the Zomin Lease Company Farm, Jizzakh Region</i> Zomin District 1992-1995
Research and development over the last 5 years	<i>Three-phase current converters for functional-parametric control and management of reactive power in renewable energy source power supply systems</i>
Industry cooperation over the past 5 years	<i>Implementation of DUAL education in high education</i> <i>Partners : Manufacturing enterprises in Jizzakh region</i>
Patents and Intellectual Property	<i>1 Patent: IAP 04562 UZ. №8, 2012</i>
Important publications over the last 5 years	<i>Selected recent publications.</i> <i>(indicate total number): 7</i> 1.I. Khonturaev. Modeling of electromagnetic current converters for functional-parametric control and management of reactive power in electric energy consumption, as well as their static characteristics. Muhammad al-Khwarizmi Descendants Journal, No. 4(30), December 2024 2.I. Khonturaev. Functional-parametric control and management of reactive power converters in renewable energy supply systems: magnitudes and parameters, and their practical investigation. Architecture and Construction Issues (Scientific-Technical Journal), Special Issue No. 8, November 2024 3.I. Khonturaev. Modeling of electromagnetic current converters for functional-parametric control of reactive power management in power supply systems. Architecture and Construction Issues (Scientific-Technical Journal) No. 00757. 31.01.2024, No. 3 4.I. Khonturaev, M. Yoldoshova. Principles of operation of

	electromagnetic current converters for functional-parametric control in the monitoring and management of reactive energy in renewable energy supply systems. International Scientific and Practical Conference on 'The Role of Information Flows and Intellectual Systems in Social, Economic, and Technical-Technological Networks,' Andijan, November 10, 2023. 5.I. Khonturaev. Electromagnetic converters of reactive power control systems in electric power supply systems. International Scientific and Practical Conference on Innovative Solutions to Technical, Engineering, and Technological Problems of Production, Part 2 (October 28-29, 2022) 6.Siddiqov I, Amurov N, Abdumalikov A, I. Khonturaev, Abubakirov A. Reliability indicators and probability of operational state of signal sensors in microprocessor and electronic devices for telecommunications and communication systems. Muhammad al-Khwarizmi Descendants, No. 1(11), January 2020 7. Siddiqov I, Amurov N, Abdumalikov A, I. Khonturaev, Abubakirov A. Reliability and probability indicators of the working state of signal sensors of microprocessor and electronic tel- ecommunication and communication devices. Muhammad al-Khwarizmi Descendants, No. 1(11), January 2020
Activity in specialized bodies over the past 5 years	

Full name, academic degree and title	<i>Pardabaev Abdurakhim, Senior teacher</i>		
Teaching area	<i>Control theory, Energy and electrical engineering</i>		
Academic education	<i>Radio communications and broadcasting engineer</i>	<i>Tashkent Institute of Electrotechnical Communications, Tashkent</i>	<i>1982</i>
Work experience	<i>Assistant Teacher</i>	<i>JizPI</i>	<i>2004-2016</i>
	<i>Senior Teacher</i>	<i>JizPI</i>	<i>2016-2025</i>
	<i>Scientific Researcher</i>	<i>JizPI</i>	<i>2016</i>
Research and development over the last 5 years	<i>Research on the energy efficiency of electrical machines</i>		
Patents and Intellectual Property	1 patent: № DGU 41289 uz. 29.06.2024		
Important publications over the last 5 years	<i>Selected recent publications.</i> <i>(indicate total number): 6</i> 1. Pardabayev A. Vol. 3 (2024): Journal of Education, Ethics and Value (JEEV) .Proudly Presented to For Publication of Paper Entitled .30.04.2024 2.Pardabayev A . science and education in agriculture 3256, 050006 (2025) ISSN № 6, 2025 June. Volume 6, Issue 6. 3.Pardabayev A.(2025). orcid: 0000-0001-5281-2682 e-mail: ortiqmamasaliyev@gmail.com.https://doi.org/10.5281/zenodo.15478421 Toshkent-2025. 4.Pardabayev A. Vol. 4, No. 05 (2025): Journal of Education, Ethics and Value (JEEV). ISSN : 2181-4392 12.05.2025. 5.Pardabayev A.vol. 4 no.Journal of education, ethics and value. https://jeev.innovascience.uz/index.php/jeev/article/view/1332 (Original work published May 12, 2025). 6. Pardabayev A. Science and education inAgriculture.№ 6, 2025 June Volume 6, Issue 6. http://www.seagc.andqxai.uz		
Activity in specialized bodies over the past 5 years			

Full name, academic degree and title	Nurullaev Orzikul Ubaevich, Senior teacher.		
Teaching area	<i>Theoretical Electrical Engineering , Fundamentals of heat engineering and hydraulic engineering , Fundamentals of Electrical Engineering and Digitalization</i>		
Academic education	<i>Electrical Engineer (Automation and Telemechanics)</i>	<i>TSTU</i>	<i>1985</i>
Work experience	Senior Lecturer, Department of Energy and Electrical Technology	<i>JizPI</i>	<i>2024</i>
	Senior Lecturer, Department of Electrical Technology	<i>JizPI</i>	<i>2021</i>
	Senior lecturer of the Department of "Electrical Power Engineering" of the Jizzakh Polytechnic Institute	<i>JizPI</i>	<i>2020</i>
	Director of the Jizzakh Transport and Communications Vocational College.		<i>2014-2017</i>
	Deputy Director for Academic Affairs at the Jizzakh Transport and Communications Vocational College.		<i>2012-2014</i>
	Acting Director of Jizzakh Transport and Communications Vocational College		<i>2011-2012</i>
	Deputy Director for Academic Affairs at the Jizzakh Transport and Communications Vocational College		<i>2009-2011</i>
	Head of the Department of Mechanics at the Jizzakh Transport and Communications		<i>2001-</i>

	Vocational College Jizzakh Polytechnic. 2009 Electrical engineering teacher at Jizzakh Industrial Technical School. 1993-2001 Engineering teacher at Jizzakh Polytechnic. 1992-1986 Senior engineer at the A. Sarkisov desert construction canal in Pakhtakor district. 1985-1986
Research and development over the last 5 years	
Industry cooperation over the past 5 years	<i>Implementation of DUAL education in high education</i> <i>Partners : Manufacturing enterprises in Jizzakh region</i>
Patents and Intellectual Property	№ DGU 20416 17.11.2022 DGU 2022 6382
Important publications over the last 4 years	<i>Selected recent publications.</i> <i>(indicate total number): 6</i> 1.A. Parsokhonov; O. Nurullaev; A. Akhmedov. <i>AIP Conf. Proc.</i> 3256, 050006 (2025) https://doi.org/10.1063/5.0266802. 2.Parsokhonov, A., Nurullayev, O., & Akhmedov, A. (2025). An Alternative Renewable Energy Source: Thermal Expansion and Contraction of Materials. <i>Online Journal of Engineering Sciences</i>, 4(1), 1 – 12. DOI: 10.31586/ojes.2025.6087 3.A A Mustafakulov, O N Olimov, A G Parsokhonov, A A Akhmedov and O U Nurullaev. Study of the luminescence of SiO₂ crystals. ICMSIT-III-2022. IOP Publishing. <i>Journal of Physics: Conference Series</i> 2373 (2022) 082025. doi:10.1088/1742-6596/2373/8/082025. 4.Parsokhonov, U. Yuldashev, O. Nurullaev, O. Olimov, A. Akhmedov, A. Bekmurzaev, F. Sayliev. A Device For Electricity Generation Using Alternative Renewable Energy Sources. <i>Acta of Turin Polytechnic University in Tashkent</i>, 2022, 30, 39-44. http://www.acta.polito.uz/ 5.Orzikul Nurullaev. “Seasonal and Weather Effects on Solar Panel Power Output in Uzbekistan ISSN (Online): 2350 - 0328 6.Nurullayev Orzikul Ubaevich Energetika sohasining ekologik muammolari “so‘ngi ilmiy tadqiqotlar nazariyasi”ilmiy-uslubiy

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Activity in specialized bodies over the past 5 years	

Full name, academic degree and title	<i>Olimov Orif Nosirovich Senior teacher</i>		
Teaching area	<i>Energy management, Thermal power plants, Safety basics in nuclear power plants</i>		
Academic education	<i>Electrical Engineer in Automatics Diploma with Honour 1992 Tashkent Institute of Irrigation and Agricultural Mechanization Engineers 1992</i>		
Work experience	<i>Senior Teacher</i>	<i>JizPI</i>	<i>2022</i>
	<i>Assistant Teacher</i>	<i>JizPI</i>	<i>2016</i>
	<i>Scientific Researcher</i>	<i>JizPI</i>	<i>2022</i>
			<i>- 2025</i>
Research and development over the last 5 years			
Industry cooperation over the past 5 years			
Patents and Intellectual Property	<i>Patent: № 10774 KZ. 27.06.2025 № 10324 KZ 28.03.2025 № DGU 42425 13.09.2024</i>		
Important publications over the last 5 years	<i>Selected recent publications.</i> <i>(indicate total number): 22</i> 1.A. A. Mustafakulov, O N Olimov, A G Parsokhonov, A A Akhmedov and O U Nurullaev. Study of the luminescence of SiO ₂ crystals. ICMSIT-III-2022. IOP Publishing. Journal of Physics: Conference Series 2373 (2022) 082025. doi:10.1088/1742-6596/2373/8/082025. 2.The process of wheat grain combined with heat and its influence on the quality indicators of wheat grain 1.Olimov O.N., 2.Kalandarov P.I. 1,2 Jizzakh Polytechnic Institute, Jizzakh,		

	Uzbekistan https://europub.co.uk/journals/30166 3. Olimov O.N., Kalandarov P.I The process of wheat grain combined with heat and its influence on the quality indicators of wheat grain https://zenodo.org/record/13889562 4. Palvan Kalandarov, Nodirbek Avezov, Orif Olimov, Xasan Turkmenov, and Askar Abdykadyrov .Bioengineering, waste processing and fermentation process control for biogas production 5. A. Mustafakulov, P. Kalandarov and O. Olimov Luminescence of neutron-irradiated quartz crystals 6. Каландаров Палван Искандарович, Олимов Ориф Носирович, Икрамов Гани Икрамович Анализ факторов, влияющие при измерении влажности продуктов агропромышленного комплекса 7. BIOENGINEERING, WASTE PROCESSING AND FERMENTATION PROCESS CONTROL FOR BIOGAS PRODUCTION Kalandarov P., Avezov N., Olimov O., Turkmenov X., Abdykadyrov A.B сборнике: BIO WEB OF CONFERENCES. IV International Conference on Agricultural Engineering and Green Infrastructure for Sustainable Development (AEGISD-IV 2024). Les Ulis, 2024. С. 02005. 8. РАЗРАБОТКА МАТЕМАТИЧЕСКОЙ МОДЕЛИ ДЛЯ ИЗМЕРЕНИЯ ВЛАЖНОСТИ ЗЕРНА МЕТОДОМ СВЧ Каландаров П.И., Олимов О.Н.В сборнике: АПК России: образование, наука, производство. Сборник статей V Всероссийской (национальной) научно-практической конференции с международным участием. Под научной редакцией М.К. Садыговой, М.В. Беловой, А.А. Галиуллина. Пенза, 2023. С. 189-192. 9. MEASURING SYSTEMS IN TECHNOLOGIES OF AUTOMATED HUMIDITY CONTROL Kalandarov P., Olimov O.IOP Conference Series: Earth and Environmental Science. 2023. Т. 1142. № 1. С. 012005. 10. ANALYSIS OF THE ERROR OF INFLUENCING FACTORS ON THE RESULT OF MEASURING THE MOISTURE CONTENT OF GRAIN AND GRAIN PRODUCTS Kalandarov P.I., Olimov O.N., Abdullaeva D.A., Yadgarova D.B., Azizova N.Sh.IOP Conference Series: Earth and Environmental Science. 2023. Т. 1206. № 1. С. 012018. 11. МАТЕМАТИЧЕСКАЯ МОДЕЛЬ ПРОЦЕССА ИЗМЕРЕНИЯ ВЛАЖНОСТИ МАТЕРИАЛОВ АГРОПРОМЫШЛЕННОГО КОМПЛЕКСА Каландаров П.И., Олимов О.Н.Математическое и программное обеспечение систем в промышленной и социальной сферах. 2022. Т. 10. № 1. С. 15-21. 12. DEVICE FOR GENERATING ELECTRICAL ENERGY BASED ON THERMAL EXPANSION OF A SOLID MATERIALParsokhonov A., Kalandarov P., Olimov O., Akhmedov A.IOP Conference Series: Earth and Environmental Science. 2022. Т. 1076. № 1. С. 012010. 13. АНАЛИЗ ФАКТОРОВ, ВЛИЯЮЩИЕ ПРИ ИЗМЕРЕНИИ ВЛАЖНОСТИ ПРОДУКТОВ АГРОПРОМЫШЛЕННОГО
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	КОМПЛЕКСА Каландаров П.И., Олимов О.Н., Икрамов Г.И. Агрофорсайт. 2022. № 2 (39). С. 25-38. 14. Elektr va issiqlik energiyasi ishlab chiqarishda biogaz qurilmalarini innovasion tahlili O.N. Olimov, P.I Kalandarov 15. Analysis of the humidity measurement infrared method of the grain materials PI Kalandarov, N Avezov, O Olimov, B Narimanov AIP Conference Proceedings 2812 (1) 2 2023 16. Analysis of the error of influencing factors on the result of measuring the moisture content of grain and grain products PI Kalandarov, ON Olimov, DA Abdullaeva, DB Yadgarova, NSH Azizova IOP Conference Series: Earth and Environmental Science 1206 (1), 012018 17. Measuring systems in technologies of automated humidity control P Kalandarov, O Olimov IOP Conference Series: Earth and Environmental Science 1142 (1), 012005 18. Design Of Devices For Monitoring The Humidity Of Materials Based On Capacitive Converters PI Kalandarov, Z Mamurovich Mukimov, O Nosirovich Olimov Int. J. of Aquatic Science 12 (2), 3035-3041 19. International scientific and practical conference “actual problems of livestock development, modern methods and development prospects” september 26-27, 2024 Буғдой донини комбинацияланган иситиш орқали озуқалик даражасини ошириш О.Н.Олимов Жиззах политехника институти, Жиззах, Узбекистон https://doi.org/10.5281/zenodo.13859729 20. Results of a pilot experiment on monitoring the condition of buildings and structures using unmanned aerial vehicles M Yu Narkevich, O S Logunova, P I Kalandarov, A N Kalitaev, G VTokmazov, P Yu Romanov, and O Alimov 21. РАЗРАБОТКА МАТЕМАТИЧЕСКОЙ МОДЕЛИ ДЛЯ ИЗМЕРЕНИЯ ВЛАЖНОСТИ ЗЕРНА МЕТОДОМ СВЧ П.И. Каландаров, О.Н. Олимов 22. Measuring systems in technologies of automated humidity Control P.Kalandarov, and O.Olimov "Tashkent Institute of Irrigation and Agricultural Mechanization Engineers" National Research University, 100000 Tashkent, Uzbekistan Jizzakh Polytechnic Institute, Jizzakh, Uzbekistan *Email: p.kalandarov@tiame.uz
Activity in specialized bodies over the past 5 years	

Full name, academic degree and title	Kushakov Gulmurod Adilovich. Senior Lecturer		
Teaching area	<i>Electrical and electronic devices, Electrical drive, Automated electric drive</i>		
Academic education	<i>Energetics</i> <i>Is awarded Bachelor's degree</i> <i>Jizzakh Polytechnic Institute (Jizzakh),</i> <i>1999</i> <i>Electric drive and automatization of Industrial is awarded Master's degree</i> <i>Tashkent Polytechnic Institute, Tashkent</i> <i>2011</i>		
Work experience	<i>Senior Lecturer of the Department of Energy and Electrical Technology at Jizzakh Polytechnic Institute</i> <i>JizPI</i> <i>2025</i> <i>Assistant of the Department of Electrical Engineering, Jizzakh Polytechnic Institute</i> <i>JizPI</i> <i>2015-2018</i> <i>Electrician at "Diamond-Planet" Limited Liability Company</i> <i>2012-2015</i> <i>Chief Energy Officer of "Jizzakhdonmahsulot" Joint-Stock Company</i> <i>2001-2012</i> <i>Electrician at "Dostlikdon Products" Joint-Stock Company</i> <i>1999-2000</i>		
Research and development over the last 5 years			
Industry cooperation over the past 5 years			
Patents and Intellectual Property			
Important publications	<i>Selected recent publications. (indicate total number): 4</i>		

over the last 5 years	1.D.Kodirov,G.Khushakov,U.Xudoyberdiyev(2023). Effective Use of Electrical Energy in Hydro Station: International Journal of Advanced Research in Science, Engineering and Technology Vol. 10, Issue 7, July 2023. 2. D.Kodirov,G.Khushakov. Study on the combined use of solar and water energy in power supply systems. E3S Web of Conferences 377, 01001 (2023) https://doi.org/10.1051/e3sconf/202337701001 ICECAE 2022. 3. E. Saitov , G. Khushakov , U. Masharipova , O. Mamasaliyev1, and S. Rasulova. Investigation of the working condition of large power solar panel cleaning device. E3S Web of Conferences 383, 04060 (2023) https://doi.org/10.1051/e3sconf/202338304060 TT21C-2023 4. G. Khushakov. Synchronous Motors with Permanent Magnets. International Journal of Engineering and Information Systems (IJEAIS) September – 2020, Pages: 135-138
Activity in specialized bodies over the past 5 years	

Full name, academic degree and title	Narimanov Bahodir Abdusalomovich Senior teacher,		
Teaching area	<i>Energy management, Thermal power plants, Safety basics in nuclear power plants</i>		
Academic education	<i>Electrical Engineer in Automatics Diploma with Honour</i>	<i>1992 Tashkent Institute of Irrigation and Agricultural Mechanization Engineers</i>	<i>1992</i>
Work experience	<i>Senior Teacher</i>	<i>JizPI</i>	<i>2017</i>
	<i>Assistant Teacher</i>	<i>JizPI</i>	<i>2007 2022 - 2025</i>
	<i>Scientific Researcher</i>	<i>JizPI</i>	
Research and development over the last 5 years			
Industry cooperation over the past 5 years			
Patents and Intellectual Property			
Electricity transmission and distribution consumption	<i>Selected recent publications.</i> <i>(indicate total number): 20</i> 1. Thermodynamics potentials of the base gas. Narimanov Bahodir Abdusalomovich Senior Lecturer of Jizzakh Polytechnic Institute, 2021 y 2. Возобновляемые источники энергии, вопросы устойчивости и смягчения последствий изменения климата Narimanov Bahodir Abdusalomovich *Senior Lecturer of Jizzakh		

	Polytechnic Institute, 2021 y 4.VIBRATIONS OF ABRIKOSOV VORTICES IN SUPERCONDUCTORS Narimanov Baxodir Absalomovich Senior Lecturer of Jizzakh Polytechnic Institute, 2021 y 5.Characterization, enzymatic and biochemical properties of endophytic bacterial strains of the medicinal plant <i>Ajuga turkestanica</i> (Rgl.) Brig (Lamiaceae)B Marimanov Journal of King Saud, 2022 - Elsevier 6.Oscillating modes of thermomagnetic avalanches in superconductors Narimanov Baxodir Absalomovich Senior Lecturer of Jizzakh Polytechnic Institute, 2022 y 7.Renewable energy sources and technologies Narimanov Baxodir Absalomovich Senior Lecturer of Jizzakh Polytechnic Institute, 2022 y 8.Analysis of the humidity measurement infrared method of the grain materials PI Kalandarov, N Avezov, O Olimov, B Narimanov AIP Conference Proceedings 2812 (1) 2 2023 9.The concept of a pumped storage power plant Narimanov Bahodir Absalamovich. Senior Lecturer of the Department of Power Engineering Jizzakh Polytechnic Institute 2023 y 10.Narimanov Baxodir Absalomovich Senior Lecturer of Jizzakh Polytechnic Institute 2022 y SOLAR IN AUTONOMOUS ELECTRICAL NETWORKS AND USE OF WIND ENERGY SOURCES 7.Soodullaev, A. S., and B. A.Narimonov. "FROM THE HISTORY OF ELECTRICAL 2017. 11.Солнечная энергия.Narimanov Bahodir Absalomovich Жиззах политехника институти Energetika кафедраси , katta o'qituvchisi 2023 y 12.Current issues of energy B.A. Narimanov Senior lecturer Jizzakh Polytechnic Institute 2024 y 13.Renewable energy sources and technologies Narimanov Baxodir Absalomovich Senior Lecturer of Jizzakh Polytechnic Institute, 2022 y 14.BIOMASSA ENERGIYA MANBALARI VA ULARDAN FOYDALANISHNING DOLZARB MASALALARI Narimanov Baxodir Absalomovich JizPI,“Energetika” kafedrasi katta o'qituvchisi
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	15.BIOMASSA ENERGIYA MANBALARI VA ULARDAN FOYDALANISH JizPI, “Energetika” kafedrası katta o‘qituvchisi B.A.Narimanov 2023 y. 16.ОЦЕНКА ВЛИЯНИЯ КОРРОЗИОННЫХ ЭРОЗИЙ НА ИЗНОС РАБОЧИХ ЭЛЕМЕНТОВ ГИДРОТУРБИН <i>1Б.Нариманов, А.О.Суяров, 3А.М.Болиев 2023</i> 17.The concept of a pumped storage power plant Narimanov Bahodir Absalamovich. Senior Lecturer of the Department of Power Engineering Jizzakh Polytechnic Institute.2024y. 18. Оптимальное управление режимам работый систем электроснабжение при высокоскоростным движение Джизз Пи старший преподаватель Нариманов Баходир Абсаломович 2024, 19.TEXNIKAVIY TARAQQIYOTDA ENERGETIKADAN FOYDALANISHNING HOZIRGI KUNDAGI HOLATI Narimanov Bahodir Absalamovich. Senior Lecturer of the Department of Power Engineering Jizzakh Polytechnic Institute.2024y. 20.Sanoat korhonalarida audt o`tkazish tartibi 2024 y Narimonov Baxodir Absalomovich JizPi kata o`qtuvchisi.
Activity in specialized bodies over the past 5 years	

Full name, academic degree and title	Saodullaev Abror Saypullaevich, head teacher		
Teaching area	<i>Fundamentals of electrical mechanics, Electrical machines, Special electric machines</i>		
Academic education	<i>Elektromechanic is awarded Master's degree</i>	<i>Tashkent State Technical Univercity named after Beruni</i>	<i>2008</i>
	<i>Electrical engineering, electromechanics and electrotechnology</i>	<i>Tashkent State Technical Univercity named after Beruni</i>	<i>2006</i>
Work experience	<i>Senior teacher of the Department of "Electro technologies"</i>	<i>JizPI</i>	<i>2020</i>
	<i>Senior teacher of "Electroenergetics" Department</i>	<i>JizPI</i>	<i>2015-2020</i>
	<i>Assistant Teacher</i>	<i>JizPI</i>	<i>2009-2015</i>
	<i>Production Foreman</i>	<i>Jizzakh Regional Electric Networks OJSC</i>	<i>2008-2009</i>
Research and development over the last 5 years	<i>Renewable energy research, electrical machines.</i>		
Industry cooperation over the past 5 years	<i>Implementation of DUAL education in high education</i> <i>Partners : Manufacturing enterprises in Jizzakh region</i>		
Patents and Intellectual Property	<i>1 Software: DGU № 50153. April 30, 2025</i>		
Important publications over the last 5 years	<i>Selected recent publications.</i> <i>(indicate total number): 8</i>		

1. Sherzod Toshev, Shaxnoza Tosheva, Abror Saodullaev, Sevara Tengelova. Mathematical and simulation modeling of a synchronous generator for micro hydroelectric and low-speed wind power plants. ICECAE 2024. *E3S Web of Conferences* 497, 01008 (2024). <https://doi.org/10.1051/e3sconf/202449701008>
2. Sherzod Toshev, Shaxnoza Tosheva, Abror Saodullaev, Akmal Vokhidov. Study on a generator and turbine designed for an efficient wind power plant in low speed wind currents. ICECAE 2023. *E3S Web of Conferences* 434, 01025 (2023). <https://doi.org/10.1051/e3sconf/202343401025>
3. Saodullayev Abror. Analysis of the technical and economic possibilities of using wind energy in the conditions of Uzbekistan. *International Journal of Advanced Research in Science, Engineering and Technology*. ISSN: 2350-0328. Vol. 10, Issue 12, December 2023
4. Saodullayev Abror Saypullayevich, Olimov Orif Nosirovich, Sadullayev Tuymurod Mardullo ugli, Tulakov Jakhongir Turakulovich. Perspective Development of Wind Energy in Uzbekistan. *International Journal of Academic Information Systems Research (IJAISR)* ISSN: 2643-9026 Vol. 4 Issue 10, October - 2020, Pages: 51-52
5. Allabergen Bekishev ; Najmiddin Kurbanov; Oliyakhon Zaynieva; Usmon Norkulov; Ziynatdin Sayimbetov; Abror Saodullaev. Comparative analysis of survivability of synchronous machines in asynchronous mode without excitation. *AIP Conf. Proc.* 3152, 050015 (2024) <https://doi.org/10.1063/5.0218806>
6. Nurali Pirmatov ; Allabergen Bekishev; Najmiddin Kurbanov; Oliyakhon Zaynieva; Usmon Norkulov; Abror Saodullaev; Ziynatdin Sayimbetov. Improving the efficiency and survivability of synchronous machines with biaxial excitation during operation in transient processes. *AIP Conf. Proc.* 3152, 040020 (2024) <https://doi.org/10.1063/5.0218824>
7. Bekishev Allabergen Yergashevich, Saodullayev Abror Saypullayevich. Dunyo mintaqalari va O'zbekiston respublikasining 2030 yilgacha qayta tiklanuvchi energiya manbalariga bo'lgan yo'l xaritasi. ISSN: 3060-4966 *JizPI xabarnomasi*. 2025-yil №1 –son. 117-125 b.
8. R. Babakhodjaev, E. Saitov, O. Mamasaliev, A. Saodullaev. The modern state and analysis of degradation characteristics of solar cells and photovoltaic modules under external influences. *Scientific-technical journal (STJ FerPI, ФapПИИ ИТЖ, ИТЖ ФepПИИ)*, 2024, T.28, №6) 145-150.

Activity in specialized bodies over the past 5 years	

Full name, academic degree and title	<i>Boliev Alisher Mardievich, Teaching assistant of the Department of energy and electrical technology</i>		
Teaching area	City electricity supply.		
Academic education	GES and QTEM (Master's degree)	Named After Islam Karimov Tashkent State Technical University	2016-2018
	Electric Power industry is awarded Bachelor's degree	Jizzakh Polytechnical Institute	2009-2013
Work experience	Assistant Professor, Department of Energy and Electrical Technology	Jizzakh Polytechnical Institute	2024- up to now
	Assistant teacher of the Department of "Energy "	Jizzakh Polytechnical Institute	2018-2024
	Master	Named After Islam Karimov Tashkent State Technical University	2016-2018
	teacher	Teacher at Jizzakh Transport and Communications Vocational College	2013-2016

	student Jizzakh Polytech nical Institute 2009-2013
Research and development over the last 5 years	Research of additional power losses caused by violations of power quality indicators in urban power distribution networks
Industry cooperation over the past 5 years	No
Patents and Intellectual Property	No
Important publications over the last 5 years	<i>Selected recent publications.</i> <i>(indicate total number): 11</i> 1. Mukhammadiev, M., Glovatskiy, O., Nasyrova, N., Karimova, N., Uulu, A. A., & Boliev, A. (2020, December). Assessment of investment technologies for use of hydro-accumulating stations on intermediate channels of irrigation systems and water reservoirs. In <i>IOP Conference Series: Earth and Environmental Science</i> (Vol. 614, No. 1, p. 012088). IOP Publishing.. 2. M. Mamadzhonov , B. Shakirov , O.O. Bozarov, B. Shakirov . The solution of leveling of Nave-Stoksa for the pumping station of the underwater canal, Scientific and technical journal "Uzbekhydroenergetika" 2020 year*#4 (8) 44-43 3. Muhammadiev, M., Urishev, B., Juraev, S., & Boliev, A. (2020, July). Detritus removal from a pumping-plant intake chamber with hydrajets pumps. In <i>IOP Conference Series: Materials Science and Engineering</i> (Vol. 883, No. 1, p. 012123). IOP Publishing. 4. Yuldoshev, I., Shoyusupov, S., Botirov, B., Jamolov, T., & Boliev, A. (2023, March). Experimental verification of the mathematical model of the temperature regime of a solar-fuel trench greenhouse. In <i>AIP Conference Proceedings</i> (Vol. 2612, No. 1). AIP Publishing. 5. Khasanov, M. Y., Kamel, S. M., Kurbanov, A. A., Jalilov, U. N., Boliev, A. M., & Suyarov, A. O. (2023, November). Optimal Planning of Distribution Network with DG Units and ESS Considering Costs. In <i>2023 IEEE XVI International Scientific and Technical Conference Actual Problems of Electronic Instrument Engineering (APEIE)</i> (pp. 1790-1796). IEEE. 6. Shoguchkarov, S., Yuldoshev, I., Saitov, E., & Boliev, A. (2020). The effect of the surface geometry of a photovoltaic battery on its efficiency. In <i>E3S Web of conferences</i> (Vol. 216, p. 01149). EDP Sciences. 7. Kurbanov, A., Khasanov, M., Suyarov, A., Jalilov, U., Narimonov, B., & Boliev, A. (2021). An Appropriate Wind Model for The Reliability Assessment of Incorporated Wind Power in Power Generation System. In <i>E3S Web of Conferences</i> (Vol. 264, p. 04083). EDP Sciences. 8. Hasanov, M., Boliev, A., Suyarov, A., Urinboy, J., & Jumanov, A. (2020, April). Optimal Integration of Wind Turbine Based Dg Units in Distribution System Considering Uncertainties. In <i>Khasanov, Mansur, et al." Rider</i>

	<i>Optimization Algorithm for Optimal DG Allocation in Radial Distribution Network." 2020 2nd International Conference on Smart Power & Internet Energy Systems (SPIES). IEEE (pp. 157-159).</i> 9. Hasanov, M., Boliev, A., Suyarov, A., Urinboy, J., & Jumanov, A. (2020, April). Optimal Integration of Wind Turbine Based Dg Units in Distribution System Considering Uncertainties. In <i>Khasanov, Mansur, et al." Rider Optimization Algorithm for Optimal DG Allocation in Radial Distribution Network." 2020 2nd International Conference on Smart Power & Internet Energy Systems (SPIES). IEEE (pp. 157-159).</i> 10. Boliev, A. M., Tulakov, J. T., & Otamurodov, S. B. (2024). MIKRO GES SUV ENERGIYASI PARAMETRLARINI TAHLIL QILISH. <i>Экономика и социум</i>, (5-1 (120)), 159-161. 11. Shoguchkarov, S., Yuldoshev, I., Saitov, E., & Boliev, A. (2020). The effect of the surface geometry of a photovoltaic battery on its efficiency. In <i>E3S Web of conferences</i> (Vol. 216, p. 01149). EDP Sciences.
Activity in specialized bodies over the past 5 years	No

Full name, academic degree and title	Mirzaev Uchkun Nazarkosimovich , Senior lecturer		
Teaching area	<i>Electrical machines and electrical drives</i>		
Academic education	<i>Electrical Machines</i>	<i>TashSTU</i>	<i>2016</i>
Work experience	<i>Senior lecturer</i>	<i>JPI</i>	<i>2019-2025</i>
	<i>Head of Department</i>	<i>JPI</i>	<i>2019-2022</i>
	<i>Assistant Teacher</i>	<i>JPI</i>	<i>2016-2019</i>
Research and development over the last 5 years	Mathematical models of energy-efficient operating modes in asynchronous motors		
Industry cooperation over the past 5 years	"TRIGGER- Triggering innovative approaches, entrepreneurial skills and attitudes in HEI learners through creating the favourable conditions for graduate's employability in Central Asia"(Erasmus+ 2020) Grant project of the Fund for Academic Innovation of the World Bank worth 100,000 US dollars in cooperation with the "DataNet Project" company on the topic "Creation of a center for vocational guidance of pupils and a joint educational laboratory of electronics"		
Patents and Intellectual Property	No		
Important publications over the last 5 years	<i>Selected recent publications.</i> <i>(indicate total number): 7</i> 1.Mirzaev, Uchkun and Abdullaev, Elnur, Mathematical Description of Asynchronous Motors (April 15, 2020). International Journal of Academic and Applied Research (IJAAR), 2020, Available at SSRN: https://ssrn.com/abstract=3593185 or http://dx.doi.org/10.2139/ssrn.3593185 2.Mirzaev, Uchkun and Abdullaev, Elnur, Experiment of Open-circuit Voltage in 'EPH 2 Advanced Photovoltaics Trainer' Laboratory and Types of PV Cell (April 30, 2020). International Journal of Engineering and Information Systems (IJEAIS) Vol. 4,		

	Issue 4, April – 2020, Pages: 41-46; ISSN: 2643-640X, Available at SSRN: https://ssrn.com/abstract=3623014 3.Mirzaev, Uchkun and Abdullaev, Elnur, Study of the Electrical Characteristics of a Solar Panel for Multi-Residential Apartments Using a Computerized Measuring Stand ‘Eph 2 Advanced Photovoltaic Trainer’ (2020) . International Journal of Academic Engineering Research (IJAER) ISSN: 2643-9085 Vol. 4, Issue 4, April – 2020, Pages: 59-61 , Available at SSRN: https://ssrn.com/abstract=3622045 4.Mirzaev, Uchkun, Experiment of Open-circuit Voltage in 'EPH 2 Advanced Photovoltaics Trainer' Laboratory and Types of PV Cell (April 30, 2020). International Journal of Engineering and Information Systems (IJEAIS) Vol. 4, Issue 4, April – 2020, Pages: 41-46; ISSN: 2643-640X, Available at SSRN: https://ssrn.com/abstract=3623014 5.Mirzayev, U. and Tulakov Jakhongir Turakul ugl, J. T."THE MODERN METHODS OF USING ALTERNATIVE ENERGY SOURCES" // Central Asian Problems of Modern Science and Education: Vol. 4 : Iss. 2 , Article 165. 19-29 Pages 6.Acarnley PP. Stepping Motors: A Guide to Modern Theory and Practice. 4th ed. London, IET; 2002. Pages: 85-86 7.Hendershot JR, Miller TJE. Design of Brushless Permanent-Magnet Motors. LLC. Motor Design Books;
Activity in specialized bodies over the past 5 years	

Full name, academic degree and title	<i>Akhmedov Abdurauf Abdugani ugli, Senior teacher of the Department of energy and electrical technology</i>		
Teaching area	<i>Introduction to the Specialty, Theoretical electrical engineering, Electrical machines, Electrical drives, Electrical insulation and cable engineering</i>		
Academic education	Electrical machines (master degree)	<i>Tashkent State Technical University</i>	<i>2017-2019</i>
	Electrical engineering, electromechanics and electrical technologies (bachelor)	<i>Jizzakh Polytechnic Institute</i>	<i>2013-2017</i>
Work experience	Senior teacher of the Department of energy and electrical technology	<i>Jizzakh Polytechnic Institute</i>	<i>2024- up to now</i>
	Assistant teacher of the Department of electrical technology	<i>Jizzakh Polytechnic Institute</i>	<i>2019-2024</i>
Research and development over the last 5 years	Research in alternative sources of renewable energy		
Industry cooperation over the past 5 years	<i>Implementation of DUAL education in high education</i> <i>Partners : Manufacturing enterprises in Jizzakh region</i>		
Patents and Intellectual Property	1. Software: DGU № 39896. June 4, 2024 2. Software: DGU № 38788. May 17, 2024 3. Software: DGU № 37080. April 3, 2024 4. Software: DGU № 31918. November 15, 2023		
Important publications over the last 5 years	<i>Selected recent publications.</i> <i>(indicate total number): 6</i> 1. A.Parsokhonov O.Nurullaev and A.Akhmedov. Electricity Generation Using Thermal Expansion and Contraction of Matters at High Pressures AIP Conf. Proc. 3256, 050006 (2025)		

	https://doi.org/10.1063/5.0266802 2. A.Parsokhonov O.Nurullaev and A.Akhmedov. An Alternative Renewable Energy Source: Thermal Expansion and Contraction of Materials. Online Journal of Engineering Sciences, 2025, 5, 6087 www.scipublications.com/journal/index.php/ojes DOI: 10.31586/ojes.2025.6087 3. A. Parsokhonov, O. Nurullaev, and A. Akhmedov, “Modeling a renewable energy source using MATLAB”, Materials of International Scientific-Practical Conference “Prospects for the development of digital energy systems, problems and solutions for obtaining renewable energy-2023” Jizzakh, Uzbekistan. pp 344–348. 4. A.Parsokhonov,O.Nurullaev,A.Akhmedov, “Qayta tiklanuvchan energiya manbalari: muammolar va yechimlar”. Materials of International Scientific-Practical Conference “Innovative Technologies in The Digitalization Environment of Higher Education: Problems and Solutions-2024” Jizzakh, Uzbekistan. Volume 1, pp. 596–600. 5. Parsokhonov A., Yuldashev U., Nurullaev O., Olimov O., Akhmedov A., Bekmurzaev A., & Sayliev A. (2020). A Device for Electricity Generation using Alternative Renewable Energy Sources. Sci. J. Test Engineering & Management, 26630-7. 6. Parsokhonov, A., Kalandarov, P., Olimov, O., & Akhmedov, A. (2022, August). Device for generating electrical energy based on thermal expansion of a solid material. In IOP Conference Series: Earth and Environmental Science (Vol. 1076, No. 1, p. 012010). IOP Publishing.
Activity in specialized bodies over the past 5 years	No

Full name, academic degree and title	Suyarov Anvar, Master degree, assistant teacher		
Teaching area	<i>Alternative energy sources in the power supply system</i>		
Academic education	<i>Master of Science Degree in Electric power stations</i>	<i>Tashkent State Technical University, Tashkent</i>	<i>2020</i>
	<i>Electrical Power Engineering (Bachelor degree)</i>	<i>Jizzakh Polytechnic Institute, Jizzakh</i>	<i>2012</i>
Work experience	<i>Assistant Teacher</i>	<i>JizPI</i>	<i>2020</i>
Research and development over the last 5 years	<i>Reduction of power losses of electrical distribution networks with an asymmetric load to which solar panels will connect</i>		
Industry cooperation over the past 5 years	-		
Patents and Intellectual Property	A.O.Suyarov, M.Yu. Hasanov, Quyosh panellari ulangan taqsimlangan elektr tarmoqlarida quvvat isroflarini hisoblash uchun dastur "Quyosh_TET", № DGU 47747.		
Important publications over the last 5 years	<i>Selected recent publications.</i> <i>(indicate total number): 9</i> 1. X.A. Sattarov, A.O.Suyarov, Nosimmetrik nagruzkali taqsimlash elektr tarmoqlarida filtrlarni qo'llash orqali Yuqori garmonikalarni bartaraf etish, Energiya va resurs tejash muammolari. ilmiy texnik jurnal. №2. Toshkent – 2022 y 41-49 b. 2. X.A. Sattarov, A.O.Suyarov, Nosimmetrik yuklamali taqsimlash tarmoqlariga ulangan quyosh panellarining kuchlanishga ta'siri, Muhammad al-Xorazmiy avlodlari, ilmiy texnik jurnal. №2 2023 y. 174-176 b. 3. X.A. Sattarov, A.O.Suyarov, Taqsimlash elektr tarmoqlari kuchlanish va yuklama xarakteristikalarini quyosh fotoelektrik stansiyalarini ulash orqali yaxshilash, Muhammad al-Xorazmiy avlodlari, ilmiy texnik jurnal. №3 2022 y. 168-171 b. 4. X.A. Sattarov, A.O.Suyarov, Quyosh panellari ulangan invertorlarning quvvat uzatish imkoniyatini tarmoq		

	kuchlanishining o'zgarishiga nisbatan baholash, Muhammad al-Xorazmiy avlodlari, ilmiy texnik jurnal. №2 2024 y. 138-140 b. 5. X.A. Sattarov, M.Sapaev, A.Turaev, Improving efficiency in a distribution network with asymmetric load due to connected solar panels with a phase relationship, E3S Web of Conferences 401, 04001 (2023) CONMECHYDRO – 2023. 1-9 b. 6. X.A. Sattarov, A.I.Turaev. Evaluation of the power transfer Capability of inverters connected To solar panels, depending on the Change in grid voltage, International Conference on New Approaches, ICNAE'22 Konya, Turkey, October 6-7, 2022, 43-46 b. 7. A.O. Suyarov, Quyosh panellari ulangan inverterlarining quvvat uzatish imkoniyatini tarmoq kuchlanishining o'zgarishiga nisbatan baholash, Ishlab chiqarishning texnik, muhandislik va texnologik muammolarining innovatsion yechimlari, xalqaro miqyosdagi ilmiy texnik-anjuman, Jizzax 2022 y. 1-qism. 768-774 b. 8. A.O. Suyarov, G.Axmedova, Quyosh panellari ulangan nosimmetrik yuklamali taqsimlash tarmoqlarida elektr energiyasi sifat ko'rsatkichlarining tahlili, "Raqamli energetika tizimini yaratishning istiqbollari, muqobil energiya olishning muammolari va yechimlari-2023" Xalqaro ilmiy-amaliy konferensiyasining ilmiy maqola va tezislar to'plami. Jizzax 2023 y. 19-20 may. 21-25 b. 9. A.O. Suyarov, Nosimmetrik yuklamali taqsimlash tarmoqlaridagi quyosh panellarining elektr energiyasi hosil qilish imkoniyatlari, "Raqamli energetika tizimini yaratishning istiqbollari, muqobil energiya olishning muammolari va yechimlari-2023" Xalqaro ilmiy-amaliy konferensiyasining ilmiy maqola va tezislar to'plami. Jizzax 2023 y. 19-20 may. 880-884 b.
Activity in specialized bodies over the past 5 years	-

Full name, academic degree and title	<i>Khasanov Mansur Yusup ugli, Teaching assistant of the Department of energy and electrical technology</i>		
Teaching area	<i>Introduction to the Specialty, Power supply. Power management and optimization. Relay protection, Electrical networks and systems.</i>		
Academic education	Power stations (master degree)	<i>Tashkent State Technical University</i>	<i>2013-2015</i>
	Power Engineering (bachelor)	<i>Tashkent State Technical University</i>	<i>2009-2013</i>
Work experience	Assistant teacher of the Department of energy and electrical technology	<i>Jizzakh Polytechnic Institute</i>	<i>2020- up to now</i>
	Assistant teacher of the Department of Power stations, networks and systems	<i>Tashkent State Technical University</i>	<i>2015-2016</i>
Research and development over the last 5 years	Optimal Planning Models and Algorithms for Distribution Network Containing Renewable DGs, ESS and DNR Considering the Reliability and Costs		
Industry cooperation over the past 5 years	<i>No</i>		
Patents and Intellectual Property	<i>1 Patent: IAP 2014 0509 UZ. December, 2016</i>		
	<i>1 Software: DGU № 47747. February 17, 2025</i>		
Important publications over the last 5 years	<i>Selected recent publications.</i> <i>(indicate total number): 20</i> 1.Khasanov M. et al. Optimal allocation strategy of photovoltaic- and wind turbine-based distributed generation units in radial distribution networks considering uncertainty //Neural Computing and Applications. – 2023. – T. 35. – №. 3. – C. 2883-2908. 2. Kamel S. et al. Simultaneously Distributed Generation Allocation and Network Reconfiguration in Distribution Network Considering Different Loading Levels //IEEE Access. – 2023. 3. Khasanov M. et al. Photovoltaic-based Distributed Generation Allocation in Distribution Network for Energy Loss Minimization		

	//E3S Web of Conferences. – EDP Sciences, 2023. – T. 434. – C. 01015. 4. Khasanov M. et al. Optimal Sizing and Sitting of Distributed Generation in Distribution Network considering Power Generation Uncertainty //E3S Web of Conferences. – EDP Sciences, 2023. – T. 434. – C. 01016. 5. Khasanov M. et al. Optimal distribution network reconfiguration to minimization power loss //E3S Web of Conferences. – EDP Sciences, 2023. – T. 402. – C. 05017. 6. Khasanov M. et al. Optimal distributed generation allocation in distribution system for power loss minimization and voltage stability improvement //E3S Web of Conferences. – EDP Sciences, 2023. – T. 401. – C. 03071. 7. Khasanov M. et al. Distribution network planning with DG units considering the network reconfiguration and reliability //E3S Web of Conferences. – EDP Sciences, 2023. – T. 461. – C. 01053. 8. Khasanov M. Y. et al. Optimal Distribution Network Reconfiguration Considering Fixed and Time-Varying Commerical Load Demand //2023 IEEE XVI International Scientific and Technical Conference Actual Problems of Electronic Instrument Engineering (APEIE). – IEEE, 2023. – C. 1800-1805. 9. Khasanov M. Y. et al. Optimal Planning of Distribution Network with DG Units and ESS Considering Costs //2023 IEEE XVI International Scientific and Technical Conference Actual Problems of Electronic Instrument Engineering (APEIE). – IEEE, 2023. – C. 1790-1796. 10. Khasanov, M., Kamel, S., Hassan, M. H., & Domínguez-García, J. L. (2024). Maximizing renewable energy integration with battery storage in distribution systems using a modified Bald Eagle Search Optimization Algorithm. Neural Computing and Applications, 36(15), 8577-8605.
Activity in specialized bodies over the past 5 years	No

Full name, academic degree and title	Kurbanov Abror Abdinasir ugli, Teaching assistant of the Department of energy and electrical technology		
Teaching area	<i>Relay protection, Electrical supply of industrial enterprises.</i>		
Academic education	Energy audit and energy inspection of industrial enterprises (master degree)	<i>Tashkent State Technical University</i>	<i>2017-2019</i>
	Power Engineering (bachelor)	<i>Jizzakh Polytechnic Institute</i>	<i>2013-2017</i>
Work experience	Assistant teacher of the Department of energy and electrical technology	<i>Jizzakh Polytechnic Institute</i>	<i>2019- up to now</i>
Research and development over the last 5 years	Optimal Planning Models and Algorithms for Distribution Network Containing Renewable DGs, ESS and DNR Considering the Reliability and Costs		
Industry cooperation over the past 5 years	<i>No</i>		
Patents and Intellectual Property	<i>1 Software: DGU № 38470., 22.05.2024</i>		
Important publications over the last 5 years	<i>Selected recent publications.</i> <i>(indicate total number): 10</i> 1. Kamel S. et al. Simultaneously Distributed Generation Allocation and Network Reconfiguration in Distribution Network Considering Different Loading Levels //IEEE Access. – 2023. 2. Hasanov M. et al. Optimal Integration of Wind Turbine Based Dg Units in Distribution System Considering Uncertainties //Khasanov, Mansur, et al." Rider Optimization Algorithm for Optimal DG Allocation in Radial Distribution Network." 2020 2nd International Conference on Smart Power & Internet Energy Systems (SPIES). IEEE. – 2020. – C. 157-159. 3. Hasanov M. et al. Optimal Integration of Photovoltaic Based DG Units in Distribution Network Considering Uncertainties //International Journal of Academic and Applied Research (IJAAR), ISSN. – 2021. – C. 2643-9603. 4. Khasanov M. et al. Optimal Sizing and Sitting of Distributed Generation in Distribution Network considering Power Generation Uncertainty //E3S Web of Conferences. – EDP Sciences, 2023. – T. 434. – C. 01016.		

	5. Khasanov M. et al. Optimal distribution network reconfiguration to minimization power loss //E3S Web of Conferences. – EDP Sciences, 2023. – T. 402. – C. 05017. 6. Khasanov M. et al. Optimal distributed generation allocation in distribution system for power loss minimization and voltage stability improvement //E3S Web of Conferences. – EDP Sciences, 2023. – T. 401. – C. 03071. 7. Khasanov M. et al. Distribution network planning with DG units considering the network reconfiguration and reliability //E3S Web of Conferences. – EDP Sciences, 2023. – T. 461. – C. 01053.
Activity in specialized bodies over the past 5 years	No

Full name, academic degree and title	Saitmuratov Ilxomjon Abdusalomovich, Senior Lecturer		
Teaching area	<i>Electrical safety and reliability, Transient processes and overvoltage</i>		
Academic education	<i>Bachelor's degree</i>	<i>TSUT</i>	<i>1996-2000</i>
	<i>Master's degree</i>	<i>TSUT</i>	<i>2002-2004</i>
	<i>Specialty - Chemist. Teacher</i>	<i>IHFP AS RUz</i>	<i>1992</i>
		<i>TashSU</i>	<i>1986</i>
Work experience	<i>Electrician at Tashkent State Light Association</i>	<i>TCLA</i>	<i>2001</i>
	<i>Machinist-operator</i>	<i>Tashkent Thermal Power Station</i>	<i>2001-2002</i>
	<i>Engineer service foremen</i>		
	<i>Durability and Safety Engineering Service Engineer</i>		
	<i>Head of the production equipment department</i>	<i>"Jizzakh Electric Networks" OAJ (OJTC)</i>	<i>2004-2009</i>
	<i>Deputy head of Emergency Dispatch Service</i>		
	<i>Head of the Emergency Dispatch service</i>		
	<i>Head of the Stability and Safety Engineering Service</i>		
	<i>Technical inspector</i>	<i>Jizzakh regional department of the UzDavENERGO SANOAT inspectorate</i>	<i>2009-2014</i>
	<i>Engineer of Durability and Safety Equipment Service</i>	<i>"Jizzakh regional Power Networks" OAJ</i>	<i>2014</i>
	<i>Deputy technical director</i>	<i>"Jizzakh regional electric</i>	<i>2014-2016</i>

	<i>Dispatcher of the emergency dispatch service</i> <i>Head of the Emergency Dispatch Service</i> <i>Dispatcher of the Emergency Dispatch Service</i> <i>Senior Dispatcher</i> <i>Senior lecturer</i>	<i>Networks Enterprise” AJ</i> <i>“Jizzakh regional electric grids Enterprise” AJ</i> <i>“Jizzakh regional electric grids Enterprise” AJ</i> <i>“Jizzakh regional electric grids Enterprise” AJ</i> <i>Jizzakh regional dispatch department of the state unitary enterprise “National Dispatch Center under the Ministry of Energy”</i> <i>Jizzakh Polytechnic Institute JizPI (external alignment)</i>	2016 2016-2018 2018-2022 2022-present 2018-present
Research and development over the last 5 years			
Industry cooperation over the past 5 years	<i>Implementation of DUAL education in high education</i> <i>Partners : Manufacturing enterprises in Jizzakh region</i>		
Patents and Intellectual Property	<i>No</i>		
Important publications over the last 5 years	<i>Selected recent publications no. (indicate total number): 0</i>		

Activity in specialized bodies over the past 5 years	
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Full name, academic degree and title	<i>Yuldoshova Mukhayyo Olimjon kizi , Teaching assistant of the Department of energy and electrical technology</i>		
Teaching area	<i>Power supply. Municipal power supply. Power management and optimization. Relay protection. Transient processes, overvoltage and insulation.</i>		
Academic education	Power supply (master degree)	Fergana Polytechnic Institute	2021-2023
	Electrical Power Engineering (bachelor)	Fergana Polytechnic Institute	2017-2021
Work experience	Teaching assistant of the Department of energy and electrical technology	Jizzakh Polytechnic Institute	2023- up to now
	Teaching assistant of the Department of Elekctrical Power engineering	Fergana Polytechnic Institute	2022-2023
	teacher	Beshariq District No. 2 Vocational School	2021-2022
Research and development over the last 5 years	Research of additional power losses caused by violations of power quality indicators in urban power distribution networks		
Industry cooperation over the past 5 years	No		
Patents and Intellectual Property	No		
Important publications	<i>Selected recent publications.</i>		

over the last 5 years	(indicate total number): 7 1. Yuldoshova, M.O, Parmonov Sh.A, Software for calculating active power losses in engines due to non-sinusoidal high-harmonic. № DGU 33541. 15.02.2024 2. Yuldoshova, M.O. Program for checking the norm of the coefficient of nosinusoidality that the steel smelting furnace generates on the network. DGU 35752. 03.04.2024 3. Yuldoshova, M.O., Kholiddinov, I. KH., Eraliev, H. A and Ibrokhimov, I.Z., Assessment of the loss of electrical energy in the transformer in the nosinusoidal mode. Universum: Technical Sciences. the electron. scientific journal. 2023. 4(109) DOI - 10.32743/UniTech.2023.109.4.15363 4. Yuldoshova, M.O., Kholiddinov, I. KH., Nasretdinova, F. N and Ibrokhimov, I.Z., Analysis of modern devices measuring electrical energy quality indicators. Scientific-technical journal (STJ FerPI, FarPI ITJ, NTJ FerPI, 2023, vol. 27. special issue No. 3) ISSN 2181 - 7200 5. Yuldoshova, M.O., Abdullaev, A. A and Nasretdinova, F. Power loss due to the effect of high harmonics in asynchronous engines. Universum: Technical Sciences. the electron. scientific journal. 2022. 12(105) DOI-10.32743/UniTech.2022.105.12.14732 6. Yuldoshova (Abdurakhmonova), M.O and Abdullaev, A. A., Electrical energy quality indicator algorithm for determining the coefficient of nosinusoidality for welding devices. Scientific-technical journal (STJ FerPI, FarPI ITJ, NTJ FerPI, 2022, vol. 26. special issue No. 5) ISSN 2181 - 7200 7. Yuldoshova (Abdurakhmonova), M.O., Abdullaev, A. A and Kholiddinov, I. KH., Algorithm for determining the nosinusoidality coefficient of electrical quality index for welding equipment. Universum: Technical Sciences. the electron. scientific journal. 2022. 5(98) DOI - 10.32743/UniTech.2022.98.5.13608.
Activity in specialized bodies over the past 5 years	No

Full name, academic degree and title	Assistant Kholdarov Batir Mansurvich Teaching assistant of the Department of energy and electrical technology		
Teaching area	<i>Electrical engineering, electromechanics. electrical technology</i>		
Academic education	<i>Master of Energy saving and energy audit</i>	<i>Jizzakh Polytechnic Institute</i>	<i>2022</i>
	<i>Electrical engineering, electrical mechanics and electrical technologies (Bachelor)</i>	<i>Jizzakh Polytechnic Institute</i>	<i>2019</i>
Work experience	<i>Assistant of the Department of Electrical Engineering</i>	<i>JizPI</i>	<i>2025</i>
	<i>Assistant of the Department of Electrical Engineering</i>	<i>JizPI</i>	<i>2022</i>
	<i>Department of Electric Power</i>		<i>2021 2022</i>
Research and development over the last 5 years	<i>Development of scientific methods of electrical energy saving in light industrial enterprises</i>		
Industry cooperation over the past 5 years	<i>Implementation of DUAL education in high education</i> <i>Partners : Manufacturing enterprises in Jizzakh region</i>		
Patents and Intellectual Property	<i>No</i>		
Important publications over the last 5 years	<i>Selected recent publications.</i> <i>(indicate total number): 7</i> 1.Xoldarov B.M Muminov H.ESharipov I.Sh. issn 2181-0842 volume 3, issue 2 february 2022., 208-215 bet 2.Xoldarov B.M Raxmatov N.S Abdusalimov I.A issn 2181-0842 volume 3, issue 2february 2022. 203-207 bet 3.Nazarov F.D Narimonov B.A Xoldarov B.M CURRENT ISSUES OF ENERGY AND THEIR ELIMINATION 4.Uchkun Mirzaev, Elnur Abdullaev, Botir Kholdarov, Bakhodir Mamatkulov, Abduvokhid Mustafoev https://scholar.google.ru/citations?view_op=view_citation&hl=ru&user=4y_9fdkAAAAJ&citation_for_view=4y_9fdkAAAAJ:u-		

	x6o8ySG0sC 5.K.Sh. Kadirov ¹ , B.M. Xoldarov ² Scientific-technical journal (STJ FerPI, ФарПИИ ИТЖ, ИТЖ ФерПИ, 2025, Т.29, №1) 6.Kodirov K.Sh., Xoldarov.B.M. “Robototexnika va radioelektronika sohasida innovatsiyalar va texnologiyalar” xalqaro ilmiy-amaliy anjuman 7.Kadirov K.Sh, Xoldarov B. Yengil sanoat korxonalarida yuklamalarning elektr energiyasining sifat ko'rsatkichlariga ta'siri
Activity in specialized bodies over the past 5 years	

Full name, academic degree and title	<i>Sorimsokov Uchkun Teaching assistant of the Department of energy and electrical technology</i>		
Teaching area	<i>electrical supply of industrial enterprises, introduction to the direction, energy management, installation and operation of the power supply system</i>		
Academic education	<i>Master of Science Degree in Energy saving</i>	<i>Jizzakh Polytechnic Institute, Jizzakh</i>	<i>2021</i>
	<i>Electrical Power Engineering (Bachelor degree)</i>	<i>Jizzakh Polytechnic Institute, Jizzakh</i>	<i>2019</i>
Work experience	<i>Assistant Teacher</i>	<i>JizPI</i>	<i>2021</i>
	<i>Teacher</i>	<i>Jizzakh architecture and construction technical school</i>	<i>2020-2021</i>
Research and development over the last 5 years			
Industry cooperation over the past 5 years	<i>No</i>		
Patents and Intellectual Property	<i>No</i>		
Important publications over the last 5 years	<i>Selected recent publications. (indicate total number): 3</i> 1.U Sorimsokov, Use of alternative energy to reduce power losses and improve voltage ,2022 , Gospodarka i Innowacje 23, 20-25 2.U.S.Sorimsokov SANOAT KORXONALARINING ENERGETIK BALANSI, Экономика и социум,2024, 533-537 3.O Mamasaliev, U.sorimsokov . Theoretical Foundations of Energy Saving,International Journal of Engineering and Information Systems (IJEAIS) ISSN, 2021		
Activity in specialized bodies over the past 5 years	<i>-</i>		

Full name, academic degree and title	<i>Jalilov Urinboy Abdunayim ugli, Teaching assistant of the Department of energy and electrical technology</i>		
Teaching area	<i>Mathematical issues of energy, Reliability of power supply, Power supply and systems, Alternative energy sources in the power supply system</i>		
Academic education	<i>Master of Science Degree in Electric power stations</i>	Saint Petersburg State Electrotechnical University	2020
	<i>Energy efficiency and energy audit for graduates of retraining courses</i>	Graduate of the Tashkent State Technical University Retraining Center	2021
	<i>Electrical Power Engineering (Bachelor degree)</i>	Jizzakh Polytechnic Institute, Jizzakh	2017
Work experience	<i>Assistant Teacher</i>	<i>JizPI</i>	2020
Research and development over the last 5 years			
Industry cooperation over the past 5 years	-		
Patents and Intellectual Property	Hasanov Mansur Yusup o'g'li, Jalilov O'rinboy Abdunayim o'g'li, ARMA usuli foydalangan holda yangi shamol tezliklarini bashorat qilish uchun dastur "ARMA_wind" DGU 36023		
Important publications over the last 5 years	<i>Selected recent publications.</i> <i>(indicate total number): 10</i> 1. Mansur Hasanov, Alisher Boliev, Anvar Suyarov, Jalilov Urinboy, Abbos Jumanov, ." Rider Optimization Algorithm for Optimal DG Allocation in Radial Distribution Network." 2020 2nd International Conference on Smart Power & Internet Energy Systems (SPIES). IEEE 2. Mansur Hasanov, Anvar Suyarov, Jalilov Urinboy, Alisher Boliev, Optimal Integration of Photovoltaic Based DG Units in Distribution Network Considering Uncertainties, International Journal of Academic and Applied Research (IJAAR), ISSN 3. M Khasanov, K Xie, S Kamel, J Abdubannaev, A Kurbanov, U Jalilov, Optimal radial distribution network reconfiguration to minimize power loss by using mayfly		

	algorithm, AIP Conference Proceedings 4. M Khasanov, S Kamel, K Xie, A Kurbanov, A Jumanov, U Jalilov, Optimal allocation of distributed generation in radial distribution network for voltage stability improvement and power loss minimization. AIP conference proceedings, 2023 5. Mansur Hasanov, Jalilov Urinboy, Reconfiguration of Radial Distribution System to Minimize Active Power Loss. International Journal of Engineering and Information ..., 2021 6. Mansur Khasanov, Salah Kamel, Jasur Abdubannaev, Abror Kurbanov, Elnur Abdullayev, Urinboy Jalilov. Distribution network planning with DG units considering the network reconfiguration and reliability. E3S Web of Conferences, 2023 7. Mansur Khasanov, Salah Kamel, Francisco Jurado, Abror Kurbanov, Urinboy Jalilov. Optimal sizing and sitting of distributed generation in distribution network considering power generation uncertainty. E3S Web of Conferences, 2023 8. Ikrom Khonturaev, Mansur Khasanov, Muhiddin Anarbaev, Abror Kurbanov, Anvar Suyarov, Urinboy Jalilov, Atom search optimization algorithm for allocating distributed generators in radial distribution systems. E3S Web of Conferences, 2021 9. Abror Kurbanov, Mansur Khasanov, Anvar Suyarov, Urinboy Jalilov, Bakhodir Narimonov, Alisher Boliev, An Appropriate Wind Model for The Reliability Assessment of Incorporated Wind Power in Power Generation System. E3S Web of Conferences, 2021 10. Mansur Khasanov, Salah Kamel, Jasur Abdubannaev, Furqat Nazarov, Abror Kurbanov, Urinboy Jalilov. Optimal distribution network reconfiguration to minimization power loss. E3S Web of Conferences, 2023
Activity in specialized bodies over the past 5 years	-

Full name, academic degree and title	Baratov Laziz Suyun ugli, Teaching assistant of the Department of energy and electrical technology		
Teaching area	<i>Electrical networks and systems, Digital energy, Thermal engineering and hydropower</i>		
Academic education	<i>Electrical Engineer (Researcher-educator) Master's degree</i>	<i>Jizzakh Polytechnic Institute</i>	<i>2022</i>
	<i>Electric power bachelor's degree</i>	<i>Jizzakh Polytechnic Institute</i>	<i>2017</i>
Work experience	<i>Assistant</i>	<i>JizPI</i>	<i>2022</i>
	<i>Leader</i>	<i>“SHAFFOF EXPERTIZA” Limited Liability Company</i>	<i>2022-2023</i>
	<i>Project engineer</i>	<i>Jizzakh branch of the General Design Research Institute of the “Qishloq Qurilish Loyixa” LLC</i>	<i>2022</i>
	<i>Category 1 Technician</i>	<i>Jizzakh branch of the General Design Research Institute of the “Qishloq Qurilish Loyixa” LLC</i>	<i>2021</i>
	<i>Technical</i>	<i>Jizzakh branch of the General Design Research Institute of the “Qishloq Qurilish Loyixa” LLC</i>	<i>2017</i>
Research and development over the last 5 years			
Industry cooperation over the past 5 years			
Patents and Intellectual Property	<i>1 Software: DGU № 26248. April 5, 2023</i> <i>DGU № 4970. May 25, 2023</i> <i>DGU № 32818. Yanvar 18, 2024</i> <i>DGU №33234. Yanvar 30, 2024</i>		
Important publications over the	<i>Selected recent publications.</i> <i>(indicate total number): 7</i>		

last 5 years	1. Baratov L International Conference dedicated to the role and Importance of innovative education in the 21st century 2022. 2. БА Наримонов, ЛС Баратов 2023/5 Журнал International Journal of Scientific Trends issn 2980-4299 5 may 2023 yil 3. LS Baratov, JT Tulakov - Energy Based On Renewable Energy Sources "Экономика и социум" №1(128) 2025 www.iupr.ru 4. Баратов Л.С., Тўлаков Ж.Т. Electromagnetic Converters Of Electrical Energy Parameters "Экономика и социум" №1(128) 2025 www.iupr.ru 5. LS Baratov, JT Tulakov - "Экономика и социум" №1(128) 2025 www.iupr.ru 6. LS Baratov, "Экономика и социум" №4(131) 2025 www.iupr.ru 7. Баратов Л Innovative development in educational activities. International conference dedicated to the role and importance of innovative education in the 21st century 2022/4 ISSN: 2181-3523
Activity in specialized bodies over the past 5 years	

Full name, academic degree and title	Mamasaliev Ortikjon Qahramon ugli, Teaching assistant of the Department of energy and electrical technology
Teaching area	<i>Control theory, Electrical machines, Design of electrical machines</i>
Academic education	<i>Master of Science Degree in Mechanical Engineering Jizzakh Polytechnic Institute 2019</i>
Work experience	<i>Associate Professor of the Department of “Electro technologies” JizPI 2021</i>
Research and development over the last 5 years	<i>Research in alternative sources of renewable energy</i>
Industry cooperation over the past 5 years	<i>Implementation of DUAL education in high education Partners : Manufacturing enterprises in Jizzakh region</i>
Patents and Intellectual Property	
Important publications over the last 5 years	<i>Selected recent publications. (indicate total number): 9</i> <i>1. Investigation of the working condition of large power solar panel cleaning device. E Saitov, G Khushakov, U Masharipova, O Mamasaliyev, S Rasulova.</i> https://www.e3s-conferences.org/articles/e3sconf/abs/2023/20/e3sconf_tt21c2023_04060/e3sconf_tt21c2023_04060.html

Activity in specialized bodies over the past 5 years	
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Full name, academic degree and title	Jumanov Abbos Nabijonovich Teaching assistant of the Department of energy and electrical technology		
Teaching area	<i>Electricity supply, installation and use of electricity supply systems, thermal power plants.</i>		
Academic education	Master of Science in Electrical Engineering Electrical Power Engineering (Bachelor's Degree)	Tashkent institute of railway engineering Tashkent institute of railway engineering	2016 2014
Work experience	Assistant Teacher Teacher	JizPI The Electrified Railway Laboratory affiliated with Electromontage Train No. 1	2020 2016-2020
Research and development over the last 5 years			
Industry cooperation over the past 5 years			
Patents and Intellectual Property	-		
Important publications over the last 5 years	<i>Selected recent publications.</i> <i>(indicate total number): 6</i> 1.Optimal allocation of distributed generation in radial distribution network for voltage stability improvement and power loss minimization Available to Purchase M. KhasanovCorresponding Author; S. Kamel; K. Xie; A. Kurbanov; A. Jumanov; U. Jalilov, Author & Article Information. AIP Conf. Proc. 2612, 050021 (2023) https://doi.org/10.1063/5.0113630 2.Renewable energy sources in Uzbekistan J.A Nabijonovich - ACADEMICIA: An International Multidisciplinary ..., 2020 3. Электр энергия сифат кўрсаткичлари ва уларни ошириш чора-тадбирлари Авторы.Ўринбой Абдунайим Ўғли Жалилов, Аббос Набижонович Жуманов, Хомидхон Ориф Ўғли Мажидов, Озодбек Рустам Ўғли Маматкулов . 4. Использование альтернативных источников энергии в горных районах джизакской области узбекистана Авторы. Асрор Ахмедович Мустафакулов, Аброр Джуманов. 5. Электр тармоқлардаги электр энергия исрофларни		

	тузилиши. Авторы. Аббос Набижонович Жуманов, Абдор Абдинасир Ўғли Курбанов, Карим Хасан Ўғли Қосимов, Жалолов Самандар Хусанович. 6. Structured education is a link of advanced pedagogical technology. Авторы. Orzikul Kadyrovich Khalilov, Abbas Nabijanovich Jumanov
Activity in specialized bodies over the past 5 years	-

Full name, academic degree and title	<i>Yuldashev Urushbay, Doctor of Physical and Mathematical Sciences, Professor</i>		
Teaching area	<i>Nuclear power plant, Nuclear reactor, NPP pumps, NPP water treatment technologies, NPP paragenerators and turbomachinery</i>		
Academic education	<i>Solid state physics</i>	<i>Kurchatov Institute of Nuclear Center of the USSR</i>	<i>1991</i>
	<i>Study of the quantum properties of awakened particles</i>	<i>Institute of Nuclear Physics of the Academy of Sciences of Uzbekistan</i>	<i>1974</i>
	<i>Physics-Nuclear Physics</i>	<i>Samarkand State University</i>	<i>1969</i>
Work experience	<i>Professor, Department of Energy and Electrical Technology</i>	<i>Jizzakh Polytechnic Institute</i>	<i>2024</i>
	<i>Head of the Department of Electrical Power Engineering - Physics</i>	<i>Jizzakh Polytechnic Institute</i>	<i>2005-2024</i>
	<i>Dean of the Faculty of construction</i>	<i>Jizzakh Polytechnic Institute</i>	<i>1997-2005</i>
	<i>Head of the Department of Physics and Energy</i>	<i>Jizzakh Polytechnic Institute</i>	<i>1992-1997</i>
	<i>director</i>	<i>Tashkent Polytechnic Institute Jizzakh branch</i>	<i>1987-1991</i>
	<i>Dean of the Faculty of industrial construction</i>	<i>Tashkent Polytechnic Institute Jizzakh branch</i>	<i>1984-1987</i>
	<i>Head of the Department of physics</i>	<i>Tashkent Polytechnic Institute Jizzakh branch</i>	<i>1978-1984</i>
	<i>senior research fellow</i>	<i>Institute of Nuclear Physics of the Academy of Sciences of Uzbekistan</i>	<i>1974-1978</i>
Research and	<i>laborant</i>	<i>Institute of Nuclear Physics of the Academy of Sciences of Uzbekistan</i>	<i>1969-1974</i>
	<i>Supervision of 5 PhD students</i>		

development over the last 5 years	
Industry cooperation over the past 5 years	<i>The Alternative Energy Research Scientific and Practical Center was established, and the production of solar panels was launched.</i>
Patents and Intellectual Property	<i>No</i>
Important publications over the last 5 years	Selected recent publications. (indicate total number): 5 1.Taylanov Nizom Abdurazzakovich¹, Yuldashev Urush Yuldasevich², Tilavova Turdixol Baratovna¹, Mamarasulova Xanifa Dilshod Qizi¹, Eshto'xtarova Orzigul Shonazarovna¹ “The Role of Folk Outdoor Games in Improving of the Motor Abilities of School Childrens” / / American Journal of Nursing and Health Sciences 2024; 5(1): 23-37 http://www.sciencepublishinggroup.com/j/ajnhs doi: 10.11648/j.ajnhs.20240501.14 ISSN: 2994-7227 (Online) Www.journal.namdu.uz 2.У.Юлдашев, З.Игамкулова “ Токовые характристики фотоэлектрического модуля солнечной энергии " ILIM HAM JAMIYET” ISSN -2010 -720X 3.Sultanov M.U., Yuldashev U., Mustafaqulov A.A “Yuqori energiyali cu+cu to’qnashuvlarda hosil bo’lgan pionlar, kaonlar, protonlar va antiprotonlar spektrlarini fitirlash” Экономика и социум” 04.06.2025 . ISSN 2225-1545 4.У.Юлдашев, А.Мустафулов. “Природа центров люминесценции кристаллов кварца, выращенных на нейтронно-облученных затравках” Uzbek Journal of Physics 25(1), 73-76.2023. DOI: https://doi.org/10.52304/.v25i1.409 5.Уруш Юлдошев, Ташпулатова Дилдора.” Гетероструктурали куёш фотоэлементлари Mikro va nanotexnologiya yangi materiallar olishning zamonaviy holati va istiqbollari,30-31 – oktabr 2023 yil 6.M.U.Sultanov1, U.Yuldashev2, C.Ubaydullayev3, S.K.Yuldashev4 “Yengil Yadrolar To’qnashuvlarida Ikkilamchi Adronlar Ko’plamchilgining To’qnashuv Markaziyligidan Bog’liqligi” International scientific-practical conference "prospects for the development of digital energy systems, problems and solutions for obtaining renewable energy-2023"

Activity in specialized bodies over the past 5 years	<i>No</i>
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Full name, academic degree and title	Nazarov Furkat Daminovich, Candidate of Technical Sciences, Senior Lecturer		
Teaching area	<i>Control Theory, Electric Power Supply, Power Plant Operation</i>		
Academic education	<i>Candidate of Sciences in Control Elements in Power Supply Systems</i>	<i>Tashkent State Technical University Tashkent Polytechnic Institute, Tashkent</i>	<i>2012</i>
	<i>Thermal power stations</i>		<i>1981</i>
Work experience	<i>Senior Lecturer, Department of Energy and Electrical Technology</i>	<i>Jizzakh Polytechnic Institute</i>	<i>2021</i>
	<i>Acting Associate Professor, Department of Energy</i>	<i>Jizzakh Polytechnic Institute</i>	<i>2021-2021</i>
	<i>Senior lecturer at the "Electroenergetika" department</i>	<i>Jizzakh Polytechnic Institute</i>	<i>2012-2021</i>
	<i>Deputy Dean of Industrial Technology and Construction</i>	<i>Jizzakh Polytechnic Institute</i>	<i>2001-2004</i>
	<i>Senior lecturer of the Department of physics and electricity</i>	<i>Jizzakh Polytechnic Institute</i>	<i>1997-2012</i>
	<i>Assistant of the Department of "Heat Engineering and Hydraulics"</i>	<i>Jizzakh Polytechnic Institute</i>	<i>1992-1997</i>
	<i>Technical safety engineer</i>	<i>Jizzakh oil base</i>	<i>1987-1992</i>
	<i>chief engineer, acting director</i>	<i>Jizzakh industrial heat energy</i>	<i>1984-1986</i>
	<i>Technical safety engineer</i>	<i>Heat source</i>	<i>1981-1984</i>
Research and development over the last 5 years	<i>Research in alternative sources of renewable energy</i>		
Industry cooperation over the past 5 years	<i>Implementation of DUAL education in high education</i>		

	<i>Partners : Manufacturing enterprises in Jizzakh region</i>
Patents and Intellectual Property	No
Important publications over the last 5 years	Selected recent publications. (indicate total number): 5 1.F.F.D.Naz.DF.D.Nazarov. A.A.Gurbanov” confirmation of reliability indicators and working capacity probability of multi-functional current voltage switches " / / scientific Bulletin of Namangan State University. - Namangan.2023. -№12. –B.67-701-0427. Www.journal.namdu.uz 2.F.F.D.nazarovf.D.Nazarov, B.Y.Kulonov, A.A.Gurbanov” research of magnitudes characterizing electric charge graphs " Computer Science and engineering tectober 14-15, 2022 HTTP://Journal.JBNUU.UZ 3.Hussein Abdel-mawgoud, Salah Kamel, Mansur Khasanov, Abror Kurbanov, Furkat Nazarov. “Optimal allocation of dgs and capacitors in radial distribution network using a hybrid optimization method” technical journal machine building № 2 2022 . ISSN 2181-1539 www.andmiedu.uz. 4.M.Khasanov., F.Nazarov., A.Suyarov.,A.Boliyev. Whale Optimization Algorithm For Intogreting Distributed Generators In Radial Distribution Network International Journal Engineering and Information Systems(IJEAIS) ISSN: 2643-640X Vol. 5, Issue 9, Pages 44-49. 9 September 2021. Http://www.ijarset.com/upload/2023/november/1-axmedovabdurauf-01-latest.pdf 5.Nazarov F. D., Shodiyeva N.Sh Jumanov A. N, Ergashev J.Sh.”Methods to reduse pover waste in the power supply” Evroasian Jurnal of Akademik Research with the title,Vol,1 No.1 (2021): EJAR, April 2021, https://doi.org/10.5281/zenodo.4717731
Activity in specialized bodies over the past 5 years	No

Full name, academic degree and title	Parmonov Shakhzod Abdumajit ugli, Teaching assistant of the Department of energy and electrical technology		
Teaching area	<i>Electrical part of stations and substations, Automated systems for accounting and control of electric energy consumption, Power supply, Power supply of cities</i>		
Academic education	Power stations (master degree)	Don State Technical University	2021-2023
	Power Engineering (bachelor)	Jizzakh Polytechnic Institute	2017-2021
Work experience	Assistant teacher of the Department of energy and electrical technology	Jizzakh Polytechnic Institute	2023- up to now
	General secretary	"Jizzakh neft base" limited liability company	2021-2022
	Accountant position	Limited liability company "ishanch effect kredit microcredit organization"	2016-2017
Research and development over the last 5 years	Development of an alternative energy source for automation of electricity supply of an agrocomplex		
Industry cooperation over the past 5 years	No		
Patents and Intellectual Property	No		
Important publications over the last 5 years	<i>Selected recent publications.</i> <i>(indicate total number): 20</i> 1. Parmonov Sh. Types of alternative energy sources and their use in agriculture. //Economy and society. -2025. 2. Parmonov Sh. Types of renewable energy sources and their economic efficiency // Economy and society. – 2025. 3. Parmonov Sh. Experience of using renewable energy sources in		

	european countries // Economy and society. – 2025. 4. Parmonov Sh. Converting biomass energy into electric and heat energy // Economy and society. – 2025. 5. Parmonov Sh. Efficiency of hydropower systems based on wave energy // Economy and society. – 2025. 6. Parmonov Sh. Electricity production technologies using wind energy // Economy and society. – 2025. 7. Parmonov Sh. Natural sources of radiation and rules of living with them // Economy and society. – 2025. 8. Parmonov Sh. Modern methods of increase energy efficiency // Economy and society . – 2025. 9. Parmonov Sh. Prospects for the application of renewable energy sources in industrial sectors // Economy and society. – 2025. 10. Parmonov Sh. Distribution and control of radiation flows in the natural environment. // Economy and society. – 2025.
Activity in specialized bodies over the past 5 years	No

Full name, academic degree and title	<i>Tulakov Jakhongir Turakul ugli, Teaching assistant of the Department of energy and electrical technology</i>		
Teaching area	<i>Nuclear power plants. Electrical part of stations and substations. Energy control and accounting in the power supply system.</i>		
Academic education	Energy saving and energy audit (master degree)	<i>Jizzakh Polytechnic Institute</i>	<i>2020-2022</i>
	Electr energy (bachelor)	<i>Jizzakh Polytechnic Institute</i>	<i>2016-2020</i>
Work experience	Assistant teacher of the Department of energy and electrical technology	<i>Jizzakh Polytechnic Institute</i>	<i>2021- up to now</i>
Research and development over the last 5 years	Modeling of flat fresnel line glass solar concentrators		
Industry cooperation over the past 5 years	No		
Patents and Intellectual Property	<i>Patent: No</i> <i>3 Software:</i> <i>DGU № 34910. March 7, 2024</i> <i>DGU № 34973. March 11, 2024</i> <i>DGU № 35864. March 27, 2024</i>		
Important publications over the last 5 years	<i>Selected recent publications.</i> <i>(indicate total number): 20</i> 1.Tulakov J. et al. Energy based on renewable energy sources //" <i>Экономика и социум</i> ", Россия, 13.01.2025 2.Tulakov J. et al. Electromagnetic converters of electrical energy parameters //" <i>Экономика и социум</i> ", Россия, 13.01.2025 3.Tulakov J. et al. Automated energy systems//" <i>Экономика и социум</i> ", Россия, 22.01.2025 4.Tulakov J. et al. The importance of solar photovoltaic converters //" <i>Экономика и социум</i> ", Россия, 22.01.2025 5.Tulakov J. et al. Modeling of flat fresnel line glass solar concentrators //" <i>Экономика и социум</i> ", Россия, 03.08.2025		

	6.Tulakov J. et al. The role of transformers in the electric power industry //"Экономика и социум", Россия, 03.08.2025 7.Tulakov J. et al. Solar energy and the use of solar energy //"Экономика и социум", Россия, 03.08.2025 8.Tulakov J. et al. Environmental importance of solar energy //"Экономика и социум", Россия, 03.08.2025 9.Tulakov J. et al. The importance of solar photopower plants //"Экономика и социум", Россия, 03.08.2025 10.Tulakov J. et al. Dispatching engineering systems in the energy sector //"Экономика и социум", Россия, 03.08.2025
Activity in specialized bodies over the past 5 years	No

Full name, academic degree and title	Majidov Khomidkhon Orifkhon ugli, Teaching assistant of the Department of energy and electrical technology		
Teaching area	<i>Electrical technological devices, Heating and cooling systems of electrical devices,</i>		
Academic education	<i>Master of Science Degree in Electrical engineer</i>	<i>Jizzakh polytechnic institute</i>	<i>2022</i>
Work experience	<i>Assistent Teacher</i>	<i>JizPI</i>	<i>2023</i>
	<i>Teacher</i>	<i>"JIZAKH CITY POLYTECHNIC NO. 1" STATE INSTITUTION</i>	<i>2021-2023</i>
	<i>Teacher</i>	<i>"HIGHER EDUCATION SCIENCE AND INNOVATIONS MINISTRY OF JIZZAH IN THE PRESENCE DIGITAL TECHNOLOGIES TECHNIQUE" STATE INSTITUTION</i>	<i>2021-2022</i>
Research and development over the last 5 years	<i>Energy saving and energy audit (thermal engineering)</i>		
Industry cooperation over the past 5 years	<i>Implementation of DUAL education in high education</i> <i>Partners : Manufacturing enterprises in Jizzakh region</i>		
Important publications over the last 5 years	<i>Selected recent publications.</i> <i>(indicate total number): 9</i> 1. X.O. MAJIDOV, B.O‘. XURSANOV. "Innovative technologies in the environment of digitalization of higher education: problems and solutions-2024" Jizzakh, 14-15.03.2024 https://www.collegesidekick.com/study-docs/12993035 2. O.X. МАЖИДОВ, А.А. АХМЕДОВ. International scientific-practical conference"prospects for the development of digital energy systems,problems and solutions for obtaining renewable energy-2023" https://www.academia.edu/103422740/Conference_Jizpi_2		

	<u>023 1 to plam</u> 3. O.X.Majidov. Certificate of official registration of a program created for electronic computers ministry of justice of the republic of Uzbekistan No. DGU 38020 https://im.adliya.uz/document/check/e664e859-96a9-4684-a5d9-07dbed0f85e7
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