

**Full name: Kolesnichenko Nikolay Yurievich**

**Education:**

- Period: Education – higher.  
1990-1995: Pavlodar State University Faculty of Energy, specialty "Power Supply of industrial enterprises", electrical engineer, Pavlodar.  
Period: Academic degree - Master of Technical Sciences.  
2017-2019: Kazakh University of Communications, specialty 6M071800 "Electric Power Engineering", Almaty.

**Work experience:**

Academic:

*Work in this organization*

- 2009 г - Until now: Senior lecturer at the Department of "Energy" of the Academician K. Satpayeva EITI.  
2009- Until now: List of subjects taught: "Information and measuring equipment", "Electrical machines", "Design of power supply systems", "Electric drive", "Power supply to industrial enterprises and cities", "Operating modes of the main equipment of electric power plants", "Automation of energy systems", "Computer modeling of electrical circuits", "Automation of power supply systems".  
2009- Until now: Full-time.

*Previous jobs in educational organizations:*

Period: -

Non-academic:

- 1995 - 2009: Shift supervisor of the Ekibastuzskaya GRES-1 electrical workshop.  
1995 - 2009: Operation and management of electrical equipment of Ekibastuzskaya GRES-1.  
1995 - 2009: Full employment.

**Professional development:**

- 14-25.08.2023: Certificate of completion of the advanced training course on "Relay protection and automation (Relay protection. Relay protection and automation. Theory of automated electric drive. Automation of power supply systems. Automation of energy systems. Automation of standard technological processes)" in Ekibastuz, the Center for training and retraining of personnel of the thermal power complex;  
31.07-11.08.2023 Certificate of completion of the advanced training course on the topic "Electric machines and drive (Electric machines. Electric drive. Electric drive and power supply of mining enterprises. Electric drive control system. Electric drive of general industrial mechanisms. Elements and devices of an automated electric drive. Power supply of electric drives. Automated electric drive of standard industrial mechanisms)" in Ekibastuz, the Center for training and retraining of personnel of the thermal power complex;  
17-28.07.2023: Certificate of completion of the advanced training course on the topic "Networks, systems in the electric power industry (Electric networks and systems. Transmission of energy by alternating and direct current. Smart power supply networks. The electrical part of stations and substations. Electrical equipment of enterprises and technological complexes. Digital substations. Electric power industry. Global Electric Power Industry)" in Ekibastuz, the Center for Training and retraining of personnel of the thermal power complex;  
03-14.07.2023: Certificate of completion of the advanced training course on the topic "Power plants, overvoltage and operation (Power plants. Overvoltage in

- electrical installations. Elements of automation systems. Operation, commissioning and repair of electrical installations)" in Ekibastuz, the Center for training and retraining of personnel of the thermal power complex;
- 19-30.06.2023: Certificate of completion of the advanced training course on the topic "Reliability and emergency situations in the energy sector (Fundamentals of the theory of reliability of electric power systems. Operating modes of the main equipment of electric power plants)" in Ekibastuz, the Center for training and retraining of personnel of the thermal power complex;
- 05-16.06.2023: Certificate of completion of the advanced training course on "Engineering graphics" in Ekibastuz, the Center for Training and Retraining of personnel of the thermal power complex;
- 15-26.08.2022: Certificate of completion of the advanced training course on the topic "Modeling and reading electrical circuits. Computer modeling of electrical circuits" in Almaty, a non-governmental Quality Assessment Center;
- 01-12.08.2022: Certificate of completion of the advanced training course on the topic "Operating modes and power supply of industrial enterprises and cities. Design of power supply systems, electric stations" in Almaty, Non-Governmental Quality Assessment Center;
- 04-15.07.2022: Certificate of completion of the advanced training course on "Transients and reliability in the electric power industry" in Almaty, Non-Governmental Quality Assessment Center;
- 02-14.08.2021: Certificate of completion of the advanced training course on the topic "Modeling and reading of electrical circuits (Computer modeling of electrical circuits, Electrical circuit reading technique)" in Nur-Sultan, Non-governmental Quality Assessment Center;
- 09-21.08.2021: Certificate of completion of the advanced training course on the topic "Electromechanics and electronics (Electromechanics and electrical equipment, Electronics, Industrial electronics)" in Nur-Sultan, Non-governmental Quality Assessment Center;
- 19-31.07.2021: Certificate of completion of the advanced training course on the topic "Operating modes and power supply (Power supply to industrial enterprises and cities, Operating modes of the main equipment of electric power plants)" in Nur-Sultan, Non-governmental Quality Assessment Center;
- 05-17.07.2021: Certificate of completion of the advanced training course on "Metrology, standardization and Quality management (Metrology, standardization and Quality management)" in Nur-Sultan, Non-governmental Quality Assessment Center;
- 05-23.07.2021: Certificate of completion of the advanced training course on "Electric machines and drive (Electric machines, Electric drive, Electric drive and power supply to mining enterprises)" in Nur-Sultan, Non-governmental Quality Assessment Center;
- 19-31.07.2021: Certificate of completion of the advanced training course on "Designing power supply systems" in Nur-Sultan, Non-Governmental Quality Assessment Center;
- 05-23.07.2021: Certificate of completion of the advanced training course on "Relay protection and automation (Relay protection, Relay protection and automation, Automation of power supply systems, Automation of energy systems)" in Nur-Sultan, Non-governmental Quality Assessment Center;
- 05-17.07.2021: Certificate of completion of the advanced training course on the topic "Metrology and measurements (Metrology and measurements, Information

and measuring technology)" in Nur-Sultan, Non-governmental Quality Assessment Center;

**Membership in professional organizations:**

**Awards and prizes:**

2024: Gratitude. I would like to express my gratitude for your honorable work and conscientious service to prosperity, making a significant contribution to the development of education and science of the Republic of Kazakhstan! Astana, Minister of Science and higher education C. "No," he said.

**Service sector activities:**

**Publications and presentations:**

- october 2025 Investigation of signal transmission along a 10-kilometer line. Proceedings of the XIII International Scientific and Practical Conference "Innovative Technologies and Engineering", dedicated to the 80th anniversary of Temirtau, October 15, 2025, p.279. Krutous S.F., Kuzmenko V.S., Kotegova E.P.
- May 2025 Electric arc intermittent earth faults in 10 kV cable lines. Proceedings of the International Scientific and Practical Conference "Improving the quality of education, modern innovations in science and production" Ekibastuz: KuzSTU branch in Prokopyevsk, May 16, 2025, p.327. Krutous S.F., Fedoryakin I.A.
- May 2025 Methods for improving reliable measurement of electric power. Proceedings of the International Scientific and Practical Conference "Improving the quality of education, modern innovations in science and production" Ekibastuz: KuzSTU branch in Prokopyevsk, May 16, 2025, p.323. Krutous S.F., Rakhpanov A.N.
- october 2024 Investigation of a linear DC electrical circuit. II International Scientific and Practical Conference "INTERNATIONAL FORUM OF YOUNG RESEARCHERS – 2024", October 24, 2024, Petrozavodsk, p.17. Krutous S.F., Rakhimov E.R., Rechkina O.Yu.
- May 2024 Monitoring the functioning of the cable network. Proceedings of the International Scientific and practical Conference "Improving the quality of education, modern innovations in science and production" Ekibastuz: KuzSTU branch in Prokopyevsk, May 16, 2024, p.254. Krutous S.F., Romanchuk K.S.
- May 2024 Investigation of inertial and inertia-free nonlinear elements. Proceedings of the International Scientific and practical Conference "Improving the quality of education, modern innovations in science and production" Ekibastuz: KuzSTU branch in Prokopyevsk, May 16, 2024, p.175. Krutous S.F., Bukhantseva V.V.
- september 2023 Investigation of the phenomenon of ferroresonance. Scientific journal: Bulletin of the University of Toraigyrov, Energy series, No. 3, 2023, Pavlodar, pp.152-162. Krutous S.F.
- february 2023 Investigation of a nonlinear DC circuit. III International Scientific and practical Conference "The SCIENCE OF THE YOUNG — THE SCIENCE OF THE FUTURE", part 2, 2023, Petrozavodsk, p.44. Krutous S.F., Aigozin A.E., Aigozin R.E.
- May 2022 Investigation of a nonlinear DC circuit. III International Scientific and practical Conference "the SCIENCE of the YOUNG — the SCIENCE of the FUTURE", part 2, 2023, Petrozavodsk, p.44. Krutous S.F. And Aigosine A.E. And Aigosine R.E.

- May 2022 High-voltage transformer testing International scientific and practical conference: "Improving the quality of education, modern innovations in science and production" dedicated to the founder of the EITI named after Academician Satpayev, Ph.D., Academician of the Academy of Medical Sciences of Kazakhstan Mardenov, M. N. In accordance with the paragraph and the 65th anniversary of the city of Ekibastuz, within the framework of the XXI Satpayev readings, May 16, 2022, p.445. M. Ilyambekova.R.
- april 2021 The use of solar panels in Kazakhstan. Collection of materials of the international scientific and practical online conference "Youth and Science - 2021", vol. 4, Petropavlovsk: M. Kozybaev Moscow State University, April 9, 2021, p.329. Krutous S.F., Ilambek R.M.
- May 2021 Ways to store energy online. Proceedings of the International Scientific and Practical Conference "Improving the quality of education, modern innovations in science and production", Ekibastuz: KuzSTU branch in Prokopyevsk, May 14, 2021, p.266. Tuleubaev T.A.
- May 2021 Prospects for the development of the SMART GRID concept in Kakhakhstan. Proceedings of the International Scientific and Practical Conference "Improving the quality of education, modern innovations in science and production" part 2, Ekibastuz: KuzSTU branch in Prokopyevsk, May 14, 2021, p.245. Krutous S.F., Lupashko A.Yu., Ilambek M.R.

**New scientific developments:**

**Additional information:**