

«Mukhamedzhan Tynyshpayev ALT University» JSC

Department of Energy

APPROVED
Chairman of the AC ALT University
S. Amirgaliyeva


Decision of the Academic Council of ALT University
dated «30» 05 2024 (protocol No. 9)

**ADMISSION EXAM PROGRAM
(INTERVIEW) FOR APPLYING TO
POST-GRADUATE EDUCATION PROGRAMS**

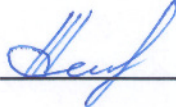
Educational program
7M07149 – Electric power industry, profile direction

Almaty, 2024

Entrance exam (interview) program discussed and received a positive decision at a meeting of the department «Energy», protocol No.8 dated April 10, 2024.

Head of the department «Energy»  **Yegzekova A.**

The entrance exam (interview) program was reviewed and recommended at a meeting of the Council of the Institute «Automation and Telecommunications», protocol No.5 dated April 26, 2024.

Chairman of the CI
«Automation and Telecommunications»  **Toigozhinova A.**

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1. The purpose of the entrance exam for a group of educational programs

Admission of foreign citizens to study in to JSC «ALT University named after Mukhamedzhan Tynyshpayev» on paid basis is carried out based on the results of an interview conducted by the admissions committee during the calendar year.

Goals entrance exam (interview) for the Educational program «7M07149 – Electric power industry», is the definition of theoretical and practical preparedness of an applicant for a master's degree, level of compliance with knowledge, skills and skills to the requirements of master's studies in the field of preparation.

2. Regulations for conducting an entrance exam (interview) for a master's program in a group of educational programs

The duration of the entrance exam (interview) is 30 minutes, during which the applicant is interviewed and answers questions from a commission approved by the President-Rector, consisting of 3 members.

At the applicant's choice, entrance The exam (interview) is taken in Kazakh, Russian or English.

Persons who did not appear at the entrance exam (interview) for a valid reason (illness or other circumstances, confirmed by documents), are allowed to participate on other days in accordance with the approved interview schedule.

The interview is conducted in person/remotely with the mandatory use of video communication. The video recording is stored in the archive for no more than three years.

During the interview process, to clarify the knowledge of the candidate/applicant, additional questions may be asked both on the content of the interview question and on any sections of the subject within the program.

The interview protocols are submitted to the executive secretary of the admissions committee immediately after the completion of the interview.

All controversial issues related to the interview are resolved in accordance with the established legislative procedure of the Republic of Kazakhstan.

3. Interview assessment criteria

The interview procedure is documented in a protocol of the established form, in the form according to Appendix No. in which are fixed questions to incoming and interview results.

Evaluation of candidates/applicants is carried out according to the system adopted by the University according to Table 1. Passing the point is the commission's decision on the sufficient level of candidates/applicants for further training master's degree Each interview decision is signed by the committee members.

Protocol interviews enrolled in the university is kept in their personal files.

Table 1 – Interview assessment criteria

Criteria	Descriptors	Level
Motivation	Argumentation of motives for doctoral studies in the chosen EP and admission to a specific university. Vision of prospects for professional and personal growth upon completion of training	sufficient/not sufficient
Research competence	Possession of the research skills and experience necessary for research activities in a specific subject area	sufficient/not sufficient
Creativity	Non-standard thinking, creative and alternative approaches to solving problems and situational tasks	sufficient/not sufficient
Communication skills	The ability to briefly, representatively, logically, and reasonably express one's point of view, make generalizations and conclusions. Language skills	sufficient/not sufficient
Commission decision		sufficient/not sufficient

4. Interview questions

1. Why did you choose this educational program?
2. What are your academic and career goals?
3. Why did you choose our university?
4. How will our university and educational program help you achieve your goals?
5. What can you, for your part, give to our educational institution if you are enrolled?
6. Why did you choose this particular topic for research? Is your direction relevant?
7. Do you think your research will be effective? What result will they lead to?
8. What will our university benefit from conducting research on this topic? Why might this be important?
9. Do you have experience publishing in international peer-reviewed journals?
10. What current scientific trends in the field of electric power do you know?

5. Recommended reading

5.1 Main literature

1. Lykin L.V. Electrical systems and networks. Textbook for secondary vocational education, 2019. -362 p.
2. I. G. Karapetyan, D. L. Faibisovich, I. M. Shapiro. Handbook of Electrical Network Design. Edited by D. L. Faibisovich. - 4th edition. - M.: NC ENAS Publishing House, 2012. - 376 p.
3. L. D. Rozhkova, L. K. Karneeva, T. V. Chirkova. Electrical Equipment of Electrical Stations and Substations. Academy Publishing Center, 2013. - 449 p.
4. A. I. Grin, H. M. Mustafayev. Electrical Part of Stations and Substations. Study Guide, Stavropol, 2002.
5. I. I. Aliyev. Electrical Machines / I. I. Aliyev. - Vologda: Infra-Engineering, 2014. - 448 p.
6. Katsman, M.M. Electrical Machines: Textbook / M.M. Katsman. - M.: Academia, 2017. - 320p.
7. Aleksandrov G.N. High-voltage electrical apparatus. / G.N. Aleksandrov et al. Edited by G.N. Aleksandrov. - 2nd ed. - St. Petersburg: Publishing house of St. Petersburg State Technical University, 2000. - 503s.
8. Electrical and electronic apparatus. / P.A. Kurbatov et al. Edited by P.A. Kurbatov. - Moscow.: Publishing house Yurait, 2016.- 440s.
9. Vazhov, V.F. High-voltage engineering: textbook / V.F. Vazhov, V.A. Lavrinovich. – Moscow.: INFRA-M, 2018. - 262 p.
10. Kireeva, E. A. Relay protection and automation of electric power systems: textbook. / E. A. Kireeva, S. A. Tsyruk. - 5th ed. – Moscow.: Academy, 2016. - 287 p.
11. Andreev V. A. Relay protection and automation of power supply systems. – 4th ed., revised and enlarged. – Moscow: Higher School, 2006. -639 p.
12. Tsygankov V.M. Reliability of electrical systems and networks. - Minsk: BNTU, 2001.-150 p.
13. Renewable energy sources: a tutorial / B.V. Lukutin. - Tomsk: Publishing house of Tomsk Polytechnic University, 2008. - 187 p.
14. Gorodov R.V. Alternative and renewable energy sources: a tutorial / R.V. Gorodov, V.E. Gubin, A.S. Matveev. - 1st ed. - Tomsk: Publishing house of Tomsk Polytechnic University, 2009. - 294 p.
15. Kharlov N.N. Electromagnetic compatibility in the electric power industry: A tutorial. - Tomsk: Publishing house of TPU, 2007. - 207 p.
16. Ovsyannikov A. G. Electromagnetic compatibility in the electric power industry: textbook / Ovsyannikov A. G. Borisov R. K. - Novosibirsk: Publishing house of NSTU, 2017. - 196 p.
17. Volkov N. G. Electric power quality in power supply systems. Tomsk: Tomsk Polytechnic University, 2010. -152 p.
18. Klimova G. N. Electric power systems and networks. Energy saving: a textbook for universities / G. N. Klimova. - 2nd ed. - Moscow.: Publishing house Yurait, 2020. - 179 p.

5.2 Additional literature

1. Idelchik V.I. Electrical systems and networks: Textbook for universities. - M.: Energoatomizdat, 1989. - 592 p.: ill.
2. Sterman L.S., Lavygin V.M., Tishin S.G. Thermal and nuclear power plants: Textbook for universities. - M.: MPEI Publishing House,
3. Afonin, V.V. Electrical stations and substations: a tutorial in 2 parts / V.V. Afonin, K.A. Nabatov. - Tambov .: Tambov State Technical University, 2017. - Part 2. - 98 p.
4. Kopylov, I.P. Electrical machines in 2 volumes. volume 1: Textbook for the academic bachelor's degree / I.P. Kopylov. - Lyubertsy: Yurait, 2016. - 267 p.
5. Kopylov, I.P. Electrical machines in 2 volumes, volume 2: Textbook for the academic bachelor's degree / I.P. Kopylov. - Lyubertsy: Yurait, 2016. - 407 p.
6. Moskalenko, V.V. Electrical machines and drives: Textbook / V.V. Moskalenko. - M.: Academy, 2018. - 128 p.
7. High voltage technology./ I.M. Bogatenkov, Yu.N. Bocharov, N.I. Gumerova, G.M. Imanov et al. Ed. G.S. Kuchinsky. - St. Petersburg: Energoatomizdat, 2003. - 608 p.
8. Lukutin B.V. Renewable energy in decentralized power supply / B.V. Lukutin, O.A. Surzhikova., E.B. Shandrova. - M.: Energoatomizdat, 2008. - 231 p.
9. Dyakov A.F., Maksimov B.K., Borisov R.K., Kuzhekin I.P., Zhukov A.V. Electromagnetic compatibility in electrical power engineering and electrical engineering./ Ed. A.F. Dyakova. -M.: Energoatomizdat, 2003. -768 p.
10. Ovsyannikov, A.G. Electromagnetic compatibility in electric power engineering: textbook / A.G. Ovsyannikov, R.K. Borisov. - Novosibirsk: Novosibirsk State Technical University, 2011. - 194 p.
11. Melnikov M.A. Relay protection and automation of elements of power supply systems of industrial enterprises: a tutorial / M.A. Melnikov - Tomsk Polytechnic University. - Tomsk: TPU Publishing House, 2008. - 218 p.
12. Butenko V.A. High Voltage Engineering: a tutorial / V.A. Butenko, V.F. Vazhov, Yu.I. Kuznetsov, G.E. Kurtenkov, V.A. Lavrinovich, A.V. Mytnikov, M.T. . Pichugina, E.V. Startseva. - Tomsk: TPU Publishing House, 2008. - 119 p.