

**AP14869933 “Developing an innovative model "Statistical analysis and information processing for scientific research for distance education” – p.m. Abayeva N.F.**

**Relevance:** The idea of this project is to develop a massive online open course "Statistical analysis and information processing for scientific research" for distance education, for young researchers who face a global problem when it is necessary to conduct statistical analysis and to process the obtained research results.

**The project purpose.** To develop an innovative model "Statistical analysis and information processing for scientific research" for distance education.

**Expected and achieved results:**

**Expected results.** Improving the quality of research work in terms of statistical information processing.

**Achieved results:**

- the MOOC "Statistical analysis and information processing for scientific research" was developed for distance education on the platform of Abylkas Saginov Karaganda Technical University NJSC in Kazakh and English;

- Certificates No. 9591 dated 05/17/2024 and No. 9590 dated 05/17/2024 were received. The MOOC “Statistical analysis and information processing for scientific research” were implemented at Karaganda University of Kazpotrebsoyuz (Karaganda) and at Pavlodar Pedagogical University named after Alkey Margulan (Pavlodar).



**Figure 1 – The working process at the MOOC**



**Figure 2 – Description of the MOOC “Statistical analysis and information processing for scientific research”**



**Figure 3 – Certificates of entering information into the state register of rights to objects protected by copyright**

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**List of publications:**

1. Abayeva Nella, Zhurov Vitaliy, Mustafina Lezzetshan, Smirnova Galina, Abaev Rafkat The Role of Mathematical Knowledge Development of Higher Education Students in the Formation of Critical and Analytical Thinking. University Proceedings, No. 3(92), 2023, p.298-303. DOI 10.52209/1609-1825\_2023\_3\_298.
2. Abayeva Nella, Zhurov Vitaliy, Abaev Rafkat. Theoretical and Methodological Foundations for the Professional Orientation of Mathematics. University Proceedings, No. 4(89), 2022, p.332-339. DOI 10.52209/1609-1825\_2022\_4\_332.
3. Certificate of entering information into the state register of rights to objects protected by copyright No. 40349 dated November 9, 2023, Abayeva N.F. MOOC "Statistical Analysis and Information Processing for Scientific Research Works": possibilities, implementation.
4. Abayeva Nella, Zhurov Vitaliy Development of the online course "Statistical Analysis and Information Processing for Scientific Research". University Proceedings. No. 2 (95), 2024, pp. 333-338. DOI 10.52209/1609-1825\_2024\_2\_333.
5. Nella Abayeva, Vitaliy Zhurov, and Lezzetshan Mustafina. Innovative massive open online course for young researchers: impact of implementation in Kazakhstani universities. Cogent Education, 2024.
6. Certificate of entering information into the state register of rights to objects protected by copyright No. 44067 dated March 29, 2024, Abayeva N.F. "Elements of Mathematical Modeling".

7. Certificate of entering information into the state register of rights to objects protected by copyright No. 46280 dated May 23, 2024, Mustafina L.M., Zhurov V.V., Yarullina A.R. "Elements of probability theory. Basic concepts of the theory".

***Information for potential consumers;*** The MOOC is placed at the site [edu.kstu.kz](http://edu.kstu.kz).

***Scope:*** Research work for processing the research results obtained when executing diploma and dissertation works.

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