

AP19678460 "Intensification of scientific and professional language training of technical specialists in the context of digital transformation of education" – p.m. D.D. Jantassova

Relevance. The lack of studying the problem of scientific and language training specialists requires experimental search and pedagogical solutions based on the experience available in the education system, including the use of digital technologies. It is important to ensure the development of technological solutions based on digital reality, which can significantly improve scientific and language training within the framework of educational programs at a technical university. In this context, the development of a model of scientific and professional training through the introduction of automated software products for teaching scientific language becomes most relevant.

The objective of the project is to develop and to implement a model of intensifying scientific and professional language training of technical specialists in the context of the digital transformation of the education system to realize the scientific and creative potential of the human capital of the future specialist.

Expected and achieved results:

- The key linguistic means of the scientific style in the field of professional and technical discourse were identified.
- The main types of scientific and professional activity of a technical specialist were determined.
- The language means in the formation of the scientific competence of a future specialist were determined.
- The main factors of the digital transformation of language education were determined.
- A classification of characteristics of scientific discourse of communication for technical specialists was developed.
- An assessment of the needs of a technical university in the scientific and linguistic component of training technical specialists was conducted.
- Lingvo-didactic provisions for scientific and professional training of technical specialists were defined.
- The results of the study were analyzed and measures for scientific and language training of technical specialists were developed.
- The content, structure and main components of the model were defined.
- A model of scientific and professional language training of technical specialists will be developed.
- A digital program for teaching scientific and professional language will be developed.
- The practical implementation of the model in the educational process of training technical specialists will be carried out.
- An algorithm for implementing the model in the educational process of a technical university will be developed.
- A digital program for teaching scientific and professional language will be introduced into the educational process.
- An analysis of the results of monitoring the practical implementation of the model will be carried out.

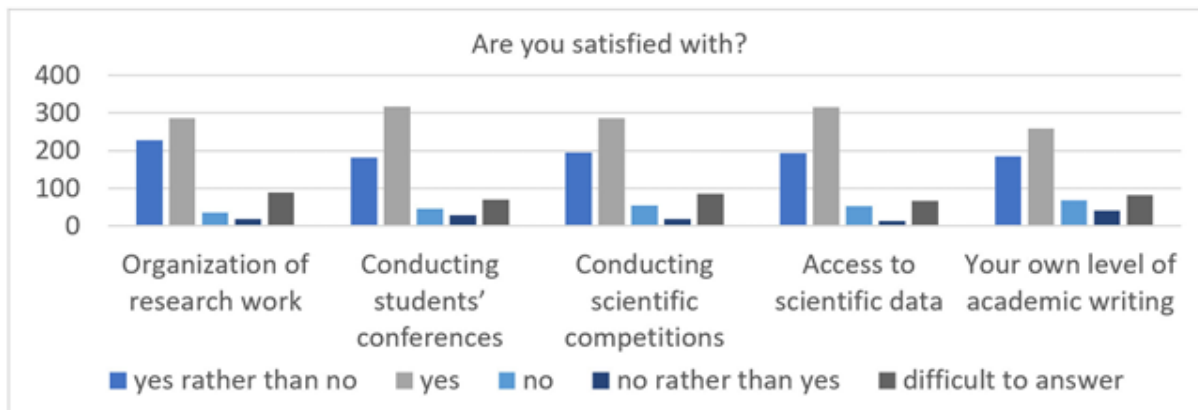


Figure 1 – Results of a student survey as part of analyzing the process of scientific training students in technical specialties

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List of publications:

1) Jantassova D.D., Azimbayeva Zh.A., Aitbayeva S.Kh. Analysis of the influence of digital transformation factors on language education // journal "Problems of modern pedagogical education". Yalta, 2024. - No. 82 (4). P.109-112.

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2) Jantassova D.D., Azimbayeva Zh.A., Stanislav Benčič. Analysis of technical specialists' scientific training: the role of written academic discourse. Scientific and technical journal University Proceedings. Karaganda: KTU, 2024. No. 1 (94). P. 335-342. DOI 10.52209/1609-1825_2024_1_335 <http://tu.kstu.kz/archive/issue/101?page=5>

3) Jantassova D.D., Azimbayeva Zh.A., Britvina V.V. Analysis of key aspects of digital transformation of the higher education system. Bulletin of Karaganda University. Series Pedagogy. Karaganda: KTU, 2024. No. 2 (114). P. 74-83. DOI: <https://doi.org/10.31489/2024ped2/74-83>

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10) Jantassova D.D. Teaching scientific and technical discourse to engineering specialists in the context of digital transformation. Proceedings of the I international scientific and practical conference "Tatars of Kazakhstan: history, culture, language, literature", Kokshetau, 2024. Pp. 59-67.

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Information for potential consumers

The results of the study will be commercialized in the form of a ready-made digital program for teaching scientific and professional language in technical fields and offered to a wide range of listeners who need the development of scientific knowledge. The digital program can be of great interest not only to the category of future specialists associated with technical industries, production but also to current production engineers who need advanced training, as well as to any category of those wishing to participate in informal education programs.

Scope: the results of the project can be used in such areas of science as higher education pedagogy, linguistics, psychology, and can also be of interest for conducting various types of language examinations.

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