

Main trends in the organization of the postgraduate research and education process in the context of digitalization of higher education

Sargu Lilia Stefan, Valeeva Yulia Sergeevna, Valeeva Svetlana Nikolaevna

University of European Studies of Moldova, Kazan State Power Engineering University
sargu@mail.ru, valis2000@mail.ru, esp_snvaleeva@mail.ru

GOAL OF THE STUDY

The main purpose of this study is to summarize and systematize the main trends and features of the educational process in digital higher education, including highlighting the characteristics of digital education models and identifying new competencies of teachers and postgraduate students.

THERMAL POLLUTION AND POWER PLANTS

The process of transformation in education has posed new challenges in shaping the competences of undergraduate and postgraduate students. In today's realities, the education and research organization system for postgraduate students is a process of teaching and research supervision. There is a transformation from mere teaching to mentoring, which will further lead to research coordination.

TABLE I. Postgraduate school indicators by country, based on average data

The Year	The country	Number of entrants to postgraduate programmes	Number of postgraduate students who have obtained a PhD
2015	Germany	213200	25000
2016	USA	175038	53000
2017	Russia	132002	9000
2018	Great Britain	109100	20000
2019	France	69500	13000
2020	Italy	34900	10000

TABLE II. Indicators of postgraduate education in Russia according to the National Research University Higher School of Economics

The year	Enrolled in postgraduate study	Graduation from postgraduate school	With the defence of dissertations
2014	32981	28273	5289
2015	31647	25826	4651
2016	26421	25992	3730
2017	26081	18069	2320
2018	27008	17729	2198
2019	26343	16239	1872
2020	28700	15334	1632

CONCLUSIONS

- The rapid development of new technologies and the expanded transformation of in-demand skills in the labour market have predetermined the need to study and highlight new competencies of postgraduate and undergraduate students, as well as important competencies of a teacher and a supervisor. The analysis and synthesis of current trends in digital education, highlighting the new competencies of research supervisors and teachers, as well as the in-demand competencies of undergraduate and graduate students, is an important complement to the research conducted by scientists in various countries. The models for the organization of the educational process and the organization of postgraduate research activities under the conditions of digitalization of education, presented in Table 3, show how various models can be applied in postgraduate education, and partly already find application in universities. To provide and implement new models in the system of digital education. to the introduction of new models, methods of teaching organization of scientific activity allows increasing productivity and quickly adapting to the changing conditions of production and life. The theoretical block of the study highlighted the modern authors' approaches to transforming the education system, including the academic trajectory of postgraduate students. The generalization of existing research, as well as the analysis of the educational process conducted by the authors, allowed to highlight the competence-based approach with new educational trends.