

ABSTRACTS

Information about the authors

Children's and adult associations as a socio-pedagogical means of rural development

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Annotation. The article describes the general condition of rural settlements, highlights the features of rural society, the interaction of subjects, adults and children, people of different generations. The expediency and naturalness of creating children's and adult communities and associations that can contribute to the preservation and development of rural areas is substantiated. The role of educational organizations in the development of interaction between subjects, representatives of different generations of people living in rural areas is emphasized. The definition and characteristics of children's and adult associations as an important socio-pedagogical means of rural development are given, the classification of children's and adult associations on various grounds, and the socio-pedagogical functions of such associations are considered. Special attention is paid to child-parent associations that have significant educational opportunities in rural areas. The main areas of activity of children's and adult associations and their role in the development of the rural economy, the organization of agricultural schools, the preservation and enrichment of historical and cultural traditions in the process of local history, research activities, and the creation of a favorable atmosphere in a rural settlement are determined. Specific solutions are proposed for the organization of creative and leisure activities, sports and recreation activities for children and adults. Recommendations are given on improving the effectiveness of children's and adult associations, ensuring the development of mutual understanding, mutual respect between adults and children, older and younger, productive and creative joint activities for the benefit of all residents and villages.

Keywords: rural area, adult population, children, youth, child-adult associations, rural development, continuity, interaction

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Features of academic competence and research potential in the process of practical training of students of basic higher education

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Annotation. The article is devoted to the study of the features of academic competence and research potential in the process of practical training of students of basic higher education. The relevance of this research is justified by the fact that modern realities require students not only to study and master



theoretical knowledge, but also the ability to correctly apply this knowledge in their professional and educational activities, including in the process of practical training within the framework of research practice. The study of students' academic competence makes it possible to assess a student's readiness for effective educational and research activities, and determining the research potential of students is their desire to learn new things and the ability to carry out independent research, which also becomes important within the framework of the sovereign system of Russian higher psychological and pedagogical education, namely, the training of a comprehensively developed and competent specialist.

Keywords: academic competence, research potential, student body, practical training, research practice

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An integrated approach to monitoring learning outcomes in the discipline "Data Analysis and Artificial Intelligence"

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Annotation. The paper examines modern approaches to the integrated monitoring of learning outcomes in the discipline "Data Analysis and Artificial Intelligence" in the context of digitalization of education. Organizational and pedagogical aspects include the development of key competencies in students, such as purposefulness, mutual trust, mutual assistance, systematic communication and the use of various forms of training. An example of a model of a comprehensive fund of assessment tools is presented, including test tasks, practice-oriented cases, end-to-end project tasks and elements of educational analytics. The use of criteria rubrics and digital tools to minimize subjectivity in the assessment of complex skills is also considered, which corresponds to the concept of "assessment for learning".

Keywords: data analysis, artificial intelligence, monitoring of learning outcomes, fund of assessment tools, project tasks

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Prospects for the development of digital doublets in higher education

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Annotation. A digital twin is a virtual copy of a physical object or system that enables the modeling of processes and analysis of the behavior of a real prototype. This article covers a wide range of topics related to digital twins, from digital twin concepts to practical examples and prospects in various industries and economic sectors. This article presents research by Russian scientists that contributes significantly to the understanding of digital twins and their application in various economic sectors, particularly higher education, forming the basis for continued study and adaptation of this

technology in Russia. A review of existing developments confirms that the digital twin concept holds enormous potential for transforming various industries. Incorporating it into the educational process and establishing "digital learning factories" will enable the virtual practice of acquired skills, increasing the effectiveness of each student in a production environment. However, despite the successes achieved, a number of significant barriers remain to the widespread adoption of digital twins. These include high costs, complex data integration, scalability issues, and privacy risks.

Keywords: digital twins, higher education, digitalization, digital ethics, university, engineering training

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Academic-industrial partnership as a strategic priority in transforming the system of continuous professional development of physics teachers

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Annotation. This article examines academic-industrial partnerships as a necessary element in the professional work of physics teachers. Specific examples of the application of academic-industrial partnerships at Nizhny Novgorod State Pedagogical University, which trains undergraduate and graduate students in Physics and Mathematics Education, are provided. The article explores academic-industrial partnerships for future physics teachers aimed at fundamentally studying cross-cutting technologies for their subsequent implementation in the educational process in the context of education transformation.

Keywords: Continuous professional education, academic partnership, industrial partnership, cross-cutting technologies, education transformation

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Developing students' professional competencies through the development and implementation of lean technologies

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Annotation. This article discusses the importance of developing professional competencies in students majoring in pedagogical specialties through the development and implementation of lean technologies in preschool educational institutions (PEI). The need to integrate lean manufacturing principles in the training of future teachers is emphasized. The process of developing competencies in the context of industrial pedagogical practice in PEI includes the stages of theoretical study, practical



application and evaluation of educational and professional results. Examples of positive dynamics in the development of professional competencies of students who have completed their internship in preschool educational institutions are given.

Keywords: lean technologies, professional competencies, students, preschool educational institutions, lean manufacturing

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Formation of students' physical fitness within the framework of the military-historical club activities

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Annotation. The article discusses a topic that allows for the integration of educational, patriotic, and applied aspects in the physical education of university students during their extracurricular activities. It advocates a comprehensive, integrated, and highly motivated approach where physical activity is not perceived as a chore, but rather as an integral part of a fun and meaningful process.

Keywords: physical education; physical fitness; students; military history club

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The role of philosophy in the educational space of secondary vocational education and higher education institutions: on the example of Kaliningrad Maritime Fishery College, Kaliningrad State Technical University, and Baltic State Academy of Fishing Fleet. Part 2.

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Annotation. The author of the article addresses the issue of the role and significance of philosophy in the educational space of a present-day technical university and college. Analysing the primary and final survey of college students and cadets/students of BFFSA and KSTU, the author makes relevant conclusions related to the students' requests regarding philosophy and its role in the educational process, preferred methods of study, most interesting topics.

Keywords: philosophy, educational programme, lecture, seminar, practical training

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Profession as a value

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Annotation: Today, the following issues remain relevant the problem of choosing a professional path for high school students, the problem of university graduates who do not want to work in their specialty and the problem of those who dream of changing their specialty during their work. Perhaps this is due to the process of forming a professional identity, during which the values that can give meaning to the profession are not laid down. The lack of significance, importance of the profession, misunderstanding of the possibilities of satisfying one's needs thanks to professional choice leads to its devaluation, disappointment, and the decision to look for something else. The paper attempts to understand these problems and suggest ways to solve them.

Keywords: value, profession, work, higher education, professional identity

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Revival of the educational and industrial complex in school education

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Annotation. In today's conditions, it is becoming relevant for high school students to obtain their first profession as a worker or employee. This article focuses on the training of 9th-11th grade students in the profession of "Laboratory Assistant for Chemical Analysis. 2nd Level," which has been developed and tested at Minin University. Early career guidance helps teenagers to immerse themselves in their chosen profession, increasing their cognitive motivation and interest, which can lead to professional motivation, intellectual development, and creativity.

Keywords: education, first profession, educational and production complex, career guidance

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Factors of Psychological Climate Development in a Modern Organization

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Annotation. In today's society, where multitasking, transformation, and digitalization are prevalent, the importance of a positive psychological climate in organizations cannot be overstated. The effectiveness of any institution largely depends on the organizational culture that fosters an eco-psychological atmosphere. The purpose of this study is to analyze the concept of "psychological climate" and identify the factors that influence its development within organizations. The results obtained are of practical significance for companies in terms of creating a psychological climate in teams, which has an impact on the socio-psychological well-being of employees and the effectiveness of their professional activities.

Keywords: psychological climate, socio-psychological atmosphere, modern organization, macro- and micro environment, employees



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The Role of Education in Shaping the Future of a Nation: The Case of Singapore

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Annotation. This article examines the education system in Singapore, focusing on the foundations of education, which are rooted in the shared cultural values of a multinational nation. It demonstrates that fostering a culture of conflict-free coexistence and mediation begins in school, continues at university, and continues directly through the workforce throughout life. The article explores the unique nature of the Singapore education system, which is distinguished by its broad definition of "education" and its implementation within the paradigm of "Shaping the Future of Our Nation." It demonstrates that the foundation of the education system is a highly motivated teacher and mentor, whose efforts are aimed at bringing out the best in each student, individually addressing their strengths and interests. Respected in Singaporean society, teachers are committed to the comprehensive development of students' creativity, teamwork, conflict-free behavior, and compassion. They instill universal values such as respect, responsibility, resilience, and honesty, and foster a joy of learning. Thus, the individual's personality is shaped from childhood, and its cultural, ethical, moral, mediative, and professional characteristics are a prerequisite for the sustainable development of the family, society, and the country. The state's meritocratic policy creates motivation for lifelong learning. The research findings can be applied in modernizing the Russian Federation's education system.

Keywords: cultural code, creative technologies in education, ADR, digital educational environment, meritocracy, SCO summit in Tianjin, role of mediation in national development.

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Language identity development by means of linguopsychological resemantization of national cultural code

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Annotation. The article examines the teachers' linguistic personality phenomenon in relation to the national (Russian) identity formation. Authors analyzed the main problems of the linguistic personality development in modern conditions; they also described characteristic development deficiencies and substantiated the role of reliance on the national cultural code in the linguistic personality development. The paper considers the concept of "national identity", describes its structure and reveals the conditions and mechanisms of the national identity formation. The essence of linguopsychological resemantization is detailed as a way to promote the linguistic personality development in the context of national culture, which, in turn, is a condition for the teachers' Russian identity formation.

Keywords: linguistic personality of the teacher, national (Russian) identity, national culture code, linguopsychological resemantization, text understanding

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A study of students' attitudes towards mentoring. Part 2

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Annotation. The article presents analytical material based on the results of a survey of students of Kaliningrad State Technical University (KSTU) and cadets of the Baltic Fishing Fleet State Academy (BFFSA) about their attitude to mentoring. Its results allow us to assess the understanding of the concept of mentoring and the attitude towards it among university students and help teachers, supervisors and mentors in higher education institutions to form the most effective relationships with mentees in order to maximize their abilities and potential development, as well as provide support and assistance.

Keywords: mentoring, cadets, students, pedagogical support, motivation, professional orientation, personal growth, mentor role, education, self-development

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The use of artificial intelligence in the professional activity of a teacher of fine arts

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Annotation. The article is devoted to the description of the possibilities of using artificial intelligence in the professional activity of a teacher of fine arts. The problem is urgent in connection with the process of digitalization of education. The professional activity of a teacher of fine arts includes such areas as methodological, pedagogical, creative and performing activities. In each of these areas, it is possible to use artificial intelligence to accelerate monotonous processes. At the same time, it is necessary to observe the ethics of using AI in art education.

Keywords: professional activity, artificial intelligence, teacher of fine arts

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Artificial intelligence in project-based student learning

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Annotation. Project-based learning, being one of the main technologies for training modern personnel, contributes to the formation of their digital competencies. Modern information technology capabilities, interdisciplinary research conducted in small student teams based on the use of methods of intellectual data analysis, provide the opportunity to effectively solve problems from various applied fields. The article presents a project to develop a chatbot with artificial intelligence elements, improving the process of searching for information on the university complex.

Keywords: personnel training, digital competencies, project-based learning, interdisciplinary research

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English courses on the Chinese educational platform UMOOCs

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Annotation. The main characteristics of English courses on the Chinese educational platform UMOOCs, the characteristics and advantages of learning models, technical features of UMOOCs OP are considered in the article. Based on SWOT analysis, advantages and disadvantages, opportunities and risks for determining development strategies for Chinese educational platforms for teaching English, as well as survey results and training results for Chinese students to identify attitudes towards OP UMOOCs are presented.

Keywords: educational platform, artificial intelligence, interactivity, educational environment, English courses, Chinese students, SWOT analysis

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Principles for forming professional orientation of pedagogical students

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Annotation. The purpose of this study is to analyze and synthesize the principles of forming professional orientation in students of pedagogical specialties. The work uses methods of theoretical analysis, systematization and classification of scientific literature. As a result of the study, existing approaches to defining pedagogical principles were systematized, key principles of forming professional orientation (individualization, active participation, etc.) were identified, and their practical implementation in the educational process of the university through the harmonization of relations, freedom of knowledge and the formation of communication skills was revealed. It was concluded that the implementation of the set of identified principles is a prerequisite and the main goal of professional training of future teachers. The proposed set of principles can serve as a basis for designing educational programs for pedagogical universities.

Keywords: principles of learning, principle of individualization, principle of cooperation, personality-oriented approach, professional self-development, synergetic approach

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Training foreign students of environmental specialties in abstracting scientific texts

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Annotation. The relevance of the study is determined by the need to improve the existing methods of teaching abstracting, taking into account the specific cognitive characteristics and professional orientation of foreign students in the field of natural sciences.

The aim of this study is to develop and implement an innovative pedagogical technology aimed at the formation of competencies in the field of abstracting scientific texts in Russian among foreign students specialized in natural sciences.

The material of the study was the textbooks for students of ecological specialties, published by the Department of Russian Language No.4 of the Institute of Russian Language of the Peoples' Friendship University of Russia named after Patrice Lumumba, and scientific research devoted to the problem of teaching the transformation of primary scientific text into a coherent abstract text in Russian as a foreign language classes.

Teaching Russian as a foreign language to students of environmental specialties has its own specifics associated with the scientific style of speech and the need to work with specialized texts. The article is devoted to the principles of transforming sentences into abstract form, familiarizes students with the peculiarities of structure and typical language constructions of scientific and popular scientific publications, and teaches them to compose an abstract as a whole text on their basis. The article substantiates the position that the work according to the scheme “from sentence to text” undoubtedly helps foreign students to master the rules of transforming sentences into abstract form and to study the main abstract frames on the examples of texts on specialty, which leads to a significant simplification of the process of foreign students' perception of scientific and popular science articles from periodicals devoted to the problems of applied sciences.

The effectiveness of the proposed methodology is based on the principle of gradual complication of didactic material: from work with isolated sentences to the analysis and processing of integral texts of professional orientation.

Keywords: abstracting, Russian as a foreign language, scientific style of speech, sentence models, modifications and transformation of sentences, secondary scientific text, specialty text, specialized vocabulary

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Implementation of an individualized approach to learning in labor (technology) lessons in the 5th grade

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Annotation. This article presents the results of a pilot study on implementing an individualized approach in fifth-grade labor (technology) lessons. We also examine the impact of considering students' individual characteristics, specifically their dominant perceptual modality, on the development of their learning motivation and cognitive independence when organizing the learning process using individualized tasks. The theoretical findings were tested in practice: individualized tasks were developed for three categories of students, defined by their dominant perceptual modality (auditory, visual, and kinesthetic learners). Statistical data is presented on the effectiveness of this approach in developing learning motivation, cognitive activity, and academic achievement in the subject "Labor (technology)." Conclusions are drawn and recommendations for teachers and parents on considering students' individual characteristics are presented.

Keywords: perception, channel of perception, leading perceptual modality, individualization

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Study of surface composition of materials for predicting properties

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Abstract. Pedagogical approaches to the study of physical and chemical processes on the surface of solids using various research methods should be aimed at developing practical skills, theoretical understanding and critical thinking in students. This article presents a study of the surface of a sample for the content of various active centers, and a comparative analysis of various types of substance treatment is carried out. This made it possible to identify patterns of changes in the surface structure and analyze their physical and chemical properties, which is important for studying the nature of interaction with the environment. Based on the data obtained, technical solutions were proposed aimed at optimizing the surface composition and predicting the properties of materials. Such approaches make it possible to increase the efficiency of using materials in various industries, ensuring their adaptation to specific operational requirements and conditions during the training process.

Keywords: pedagogical experience, solid surface, active centers, substance processing, surface structure, physicochemical properties, surface composition, IR spectroscopic studies, property prediction

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A communicative and cognitive approach to teaching a foreign language to undergraduate students of a non-linguistic specialty

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Annotation. The purpose of the research is to analyze the application of a communicative and cognitive approach in teaching a foreign language (English) the language of undergraduate students of a non-linguistic training profile. The relevance of the research is determined by the requirements of federal state educational standards for the results of mastering bachelor's degree programs, as well as the main task of mastering a foreign language – the implementation of communication. As a result of studying the literature, definitions of cognitive and communicative-cognitive approaches were considered. It also describes the principles of a communicative and cognitive approach to teaching a foreign language and the result of integrating the techniques of a communicative and cognitive approach into the educational process.

Keywords: foreign language, cognitive approach, communicative and cognitive approach, educational process, teaching, pedagogical conditions

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Communicative processes in modern society and science

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Annotation. This article discusses communication processes in modern society and science. There are many different ways to communicate and share information, each with its own characteristics, advantages, and disadvantages. It is important to note that access to information and participation in communication are not always equal, and "key figures" may have more opportunities. The term "communication" has been known for a long time and has multiple interpretations. Communication, or interpersonal interaction, is a process that is essential for modern individuals, where ideas and information are exchanged. The term itself is used in various branches of science. There are different types of communication: oral, written, face-to-face, correspondence, formal, and informal.

Keywords: communication, information, exchange, interaction, science, society, scientific communication

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Prospects for the development of interactive training at a forensic training ground

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Annotation. The article discusses the application of the situational modeling method and its positive impact on the formation of professional competencies among law students using modern pedagogical technologies. Special attention is given to the use of virtual and augmented reality technologies in the study



of criminology. The article analyzes the current capabilities of virtual reality technologies and their main applications in the field of criminology. It also examines the international and domestic experience of using augmented reality technologies in the educational process and highlights their key advantages. It is proposed to introduce not only virtual reality technologies, but also augmented reality technologies into the forensic training process based on a forensic training ground, in order to supplement and provide more detailed information about environmental objects for future lawyers.

Keywords: forensic science, forensic training ground, interactive training, and virtual and augmented reality technologies, digitalization

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Aspects of forming professional motivation in the learning process

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Annotation. The article analyzes some aspects of the formation of professional motivation in the educational process. The results of an experimental study of motivation for professional activity at different stages of university education are presented. A positive correlation between motivational orientations and students' academic performance has been established. The article highlights the problem of reducing the adaptation potential of first-year students due to the high academic load. It has been proven that professional motivation contributes to improving the quality of training for maritime bachelors, developing their professional and general competencies, and enabling them to realize their potential in the professional field.

Keywords: professional motivation, professional-oriented extracurricular activities, mentoring, and project-based learning

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Teaching business presentation creation as a means of forming business communication competencies in Technical University students

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Annotation. The preparation of a business presentation becomes one of the stages of mastering the elective discipline "Business communication in Russian". In the article, teaching this genre is considered as a means of forming business communication competencies among students of a technical university, since in the process a number of skills are being developed that form the basis of relevant competencies. It contains exercises, tasks for role-playing games, and methodological recommendations that contribute to the most effective training in creating a business presentation.

Keywords: business communication, Russian language, culture of speech, competencies, competencies of business communication, competence approach, business presentation, business presentation training

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**Development of "Operation Brinland" training session for bachelors
to develop professional competencies in the field of humanitarian logistics**

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Annotation. The article is devoted to the development of the "Operation Brinland" training for bachelors of logistics based on the integration of modern pedagogical technologies. The synthesis of imitation modeling, artificial intelligence and gamification for the formation of practice-oriented competencies in conditions close to professional activity is considered. A detailed lesson plan is presented aimed at developing adaptability and prompt decision-making.

Keywords: vocational education, logistics, pedagogical teaching methods, gamification, artificial intelligence tools, simulation, reflective session

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The introduction of ai in education: conditions and trends

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Annotation. The article presents an analysis of the possibilities and prospects for using artificial intelligence (AI) in the higher education system and considers the transformation of the teacher's role in the context of digitalization. It is noted that AI is gradually becoming a part of learning, allowing to personalize educational trajectories, adapt materials to different styles of information perception (verbal, visual, kinesthetic), automate routine tasks and accelerate feedback. The key competencies of a modern teacher are described, including basic knowledge of AI principles, the ability to critically evaluate data obtained from AI, the skill of effectively integrating neural network tools into training and forming a digital culture of students. The formats of microlearning and the use of virtual laboratories are considered. Examples of educational programs for advanced training in working with AI, implemented by leading Russian universities and online platforms are given. Emphasizing the advantages of using AI, the authors point out the negative consequences of its long-term use. The article reflects the resources required to implement AI in universities.

Keywords: artificial intelligence (AI), the introduction of AI in education, the competencies of teachers, the advantages of AI, the risks for users, the resources of AI implementation

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Generation of educational debates based on artificial intelligence in the process of training future foreign language teachers

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Annotation. The article presents a study of the role of educational debates in the training of future foreign language teachers. It is noted that the generation of educational debates based on artificial intelligence helps to introduce students to the culture of oral foreign language performance, the formation of evaluative judgments and value consciousness, the use of their own knowledge and pedagogical experience. The functional capabilities and characteristics of generative platforms for debates are considered. The experience of organizing educational debates for teachers of the Department of Foreign Languages of the South Ural State Humanitarian and Pedagogical University is described, the author's scenario for holding a debate-format lesson is proposed. The risks and difficulties of working with neural networks are identified. Practical recommendations for the most effective and safe implementation of generative intelligence in the process of training future foreign language teachers are proposed.

Keywords: training of future foreign language teachers, educational debates, neural networks, artificial intelligence

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Integration of information technologies into classical methods of teaching foreign languages

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Annotation. The article is devoted to analyzing the possibilities and effectiveness of integrating information technology into classical methods of teaching foreign languages. It considers the main principles of traditional methods, reveals their strengths and weaknesses in the modern educational context. An overview of current IT tools and resources applicable to linguodidactics is provided, ranging from interactive online platforms and multimedia tools to artificial intelligence and virtual reality. Special attention is given to models and practical examples of integrating IT into grammatical, translational, direct, audio-lingual, and communicative teaching methods. The article also presents results from an empirical study that included a survey of teachers and students. This allowed us to assess the current level of application of IT, identify perceived advantages, and main challenges from the perspective of direct participants in the educational process. Based on the data obtained, conclusions are formulated about the potential of blended learning and practical recommendations are proposed to teachers, educational institutions, and developers of IT solutions for further improvement of foreign language teaching methods in the context of digitalization.

Keywords: Foreign languages, information technology, classical teaching methods, blended learning, digital didactic, online resources, and artificial intelligence in education are all important aspects of modern education.

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Client-server application development "Doman's cards"

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Annotation. In the modern world of information technology, the issue of creating effective tools for various tasks is becoming increasingly relevant. This research examines the task of developing a client-server application "Glenn Doman Flashcards," designed for early childhood development, based on the eponymous methodology by Glenn Doman. The psychological and pedagogical aspects of developing a digital tool for children's use are considered. The advantages of using the "Glenn Doman Flashcards" client-server application are identified, and the technologies and tools for the practical implementation are selected and applied. During the development of the "Glenn Doman Flashcards" client-server application, a technological stack is presented, consisting of the PHP programming language, its Laravel framework for the backend, and a MySQL database. The implemented project can be adapted for the development of a similar digital product for the use of educational mobile services in the early childhood development process.

Keywords: Android, client-server application, Doman cards, psychological and pedagogical features

The article was submitted 13.10.2025; approved after reviewing 14.11.2025; accepted for publication 21.11.2025.

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Methodological organization and professional support in engineering education: a case study of the Fidesys package

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Annotation. This article focuses on the critical challenge of import substitution in high-tech software, namely integrating the Russian CAE package Fidesys into higher engineering education. The study's relevance is underscored by sanctions, the departure of foreign analogs like ANSYS and ABAQUS from the market, and the strategic imperative to equip graduates with skills in domestic technologies.

Keywords: Fidesys, import substitution, textbook, instructional support, software

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Influence of neural networks on the educational process

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Annotation. The article is devoted to the study of how the artificial world changes the world. The importance of modern technologies is updated, namely their application in the educational process. Information generation is currently a trend among students of any educational institution. The authors examine the most famous neural networks that are trained through "deep learning", which allows them to be useful in various fields. The article also presents the prospects for the development of neural networks in the educational process.

Keywords: neural network, artificial intelligence, educational process

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Specific features of technological sports training with individuals with disabilities

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Annotation. This article examines the implementation of individualization principles, a multisensory approach, and safety measures in classes with groups of students with visual, hearing, and musculoskeletal impairments. Incorporating drone racing into the university's regular sports events increases student engagement in the university's social life.

Keywords: adaptive physical education, drone racing, students, multisensory approach

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The relationship between burnout syndrome and strategies for coping with stress in doctors of the Kursk region

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Annotation. The article analyzes domestic and foreign studies devoted to the study of coping behavioral strategies in psychology. Psychological issues related to the study of burnout among doctors are being raised. Based on an empirical study, the results of the indicators of burnout syndrome and strategies for coping with stress among doctors from the Kursk region are described.

The practical application of the results of this study will contribute to the improvement of the system of psychological support for doctors. This article is intended as a recommendation.

Keywords: coping strategies, psychological health, emotional burnout, emotional response, stress, psychological self-regulation, depersonalization, integral burnout index, coping strategies, coping competence, social support

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The influence of educational technologies on students' motivation and development of emotional intelligence

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Annotation. This article describes the impact of educational technologies on students' motivation and the development of emotional intelligence. It emphasizes the importance of education as a component of learning. The article provides a definition of emotional intelligence and educational technologies. It explores the features and benefits of educational technologies such as collective creative activities, social design, game technologies, pedagogical communication technologies, case-based technologies, information and communication technologies, art technologies, and discussion technologies. The article analyzes the results of a study aimed at identifying the technologies that have the greatest impact on students' motivation and the development of their emotional intelligence. It is emphasized that, despite the advantages of a particular educational technology, only the use of all technologies in combination by a teacher will allow for the formation of a well-rounded personality.

Keywords: educational technologies, motivation, emotional intelligence, educational process, communication, empathy

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Terminology of motivation

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Annotation. The concepts of «motivation», «motive», «motivate», «need» and «stimulation» are presented and analysed. These concepts are differentiated based on the premise that the source of motivation is exclusively intrapersonal and is a personality attribute, while the impetus to action through stimulation is derived from external sources and is not considered motivation (extrinsic motivation). The structure of these concepts, defining their interrelationships and their combined influence on human activity, is substantiated and illustrated.

Keywords: motivation, motive, need, stimulation, relationship of concepts, structure

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Prevention of extremist manifestations: identifying students' tendency to affective behavior and irrational attitudes

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Annotation. The article presents the results of a study of irrational attitudes of university students in relation to the tendency of young people to affective behavior, which allows identifying the most vulnerable groups of students prone to radicalization and susceptible to extremist influences, and can become an important component of the university's diagnostic work within the framework of pedagogical prevention of extremist manifestations in the student environment. The author noted the relevance of the stated problem, and also presented the results of the empirical study, substantiated the need to introduce work on pedagogical prevention of extremist manifestations into the educational process of the university, which makes it possible to develop educational and upbringing programs aimed at developing critical thinking, value systems, emotional self-regulation, social stability, and also to create a safe and supportive environment at the university that reduces the potential risks of destructive influences.

Keywords: educational environment of the university, prevention of extremist manifestations, students, tendency to affective behavior, irrational attitudes, risks of destructive manifestations

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A study of the relationship between students' professional development and their emotional attitude towards their profession

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Annotation. The article presents the results of the analysis of the dynamics of the emotional attitude towards the profession of students studying in the field of psychology, and identifies correlations between the professional development of students and their emotional attitude towards the profession.

Keywords: professional identity, identity formation, identity maturity, emotions, correlation

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Using Agile Methodologies in Mathematics Teaching

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Annotation. The article considers the problem of adapting the Agile method in teaching mathematics in basic school in order to overcome the limitations of traditional reproductive approaches. The authors substantiate the relevance of the study, referring to the data of international studies (PISA, TIMSS), which revealed the insufficient effectiveness of existing methods in the formation of functional mathematical literacy of students. Adaptation of flexible methods of teaching mathematics in basic school requires a creative approach from the teacher, the ability to use various methods and technologies, as well as the creation of a favorable learning atmosphere that takes into account the individual characteristics of each student.

Keywords: Agile method, mathematical education, functional literacy, mathematical literacy, productive method, iterative learning, retrospective

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National scientific forum of students and cadets "Days of Science": formation of scientific elite and support of innovative initiatives of youth

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Annotation. The article analyzes the work of the Physics section at the National Scientific Forum of Students and Cadets "Science Days" in recent years.

Keywords: forum of students and cadets, physics, youth science, unique research, physical experiment, theoretical developments

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Application of eduScrum methodology in teaching physics in a technical university: possibilities and prospects

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Annotation. The article is devoted to the study of the possibilities and advantages of using the eduScrum methodology in the educational process when teaching physics in technical universities.

Keywords: physics training, eduScrum, technical university, educational technologies, learning efficiency, creative thinking, professional competencies, innovative approaches

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Methodology for studying the magnetic field on the solenoid axis in a laboratory practical course in physics

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Annotation. The article describes a method for studying the magnetic field on the axis of a ring coil (solenoid) using a Hall sensor. It is proposed to conduct a laboratory experiment on an updated stand developed by cadets of the Marine Institute of KSTU. The characteristics of the coil magnetic field were investigated using a modern bipolar semiconductor Hall sensor SS49E.

Keywords: laboratory stand, magnetic field of solenoid, Hall constant, semiconductor Hall sensor

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The influence of value choice on the development of professional responsibility of cadets of military universities of the Russian Guard

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Annotation. The article considers the issue of formation of professional responsibility of future officers of the National Guard troops through the prism of value choice. Particular attention is paid to the specifics of the military-pedagogical environment, which differs significantly from civilian educational organizations, as well as the role of the value-semantic core of the educational system of the military educational organization. Pedagogical techniques aimed at forming value orientations of cadets are analyzed, including situations of value choice, moral dilemmas, discussions, curatorial hours, educational and extracurricular activities, as well as situational exercises simulating real military-professional situations. It is shown that the systematic use of these methods contributes to the formation of value-semantic self-determination of cadets, the development of critical thinking and the ability to make objective decisions in conditions of moral and professional uncertainty. It is emphasized that value-semantic education is the basis for the formation of an integrative quality of an officer's personality – professional responsibility, ensuring the effective and ethically sound performance of official duties.

Keywords: value choice, professional responsibility, military-pedagogical environment, value orientations, officer of the National Guard troops

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The problem of researching information and communicative competence of a teacher

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Annotation. The article reviews scientific approaches to the definition and structure of teachers' information and communication competence. It summarizes domestic and international studies, highlights different interpretations of the concept, and identifies its cognitive, operational, personal-motivational, and reflexive components. The paper emphasizes the relevance of developing teachers' ICT competence in the context of education digitalization. Special attention is paid to international models (UNESCO, DigCompEdu) and current digital competence standards. It is concluded that information and communication competence is an interdisciplinary phenomenon requiring further research.

Keywords: information and communication competence, teacher, competence-based approach, digitalization of education, professional development

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