

Key aspects of the algorithmization of collaborative activities of students in a technical university in a digital era

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Abstract. The article highlights the issue of the algorithmization of collaborative activities in a modern technical university. An attempt was made to refine the definitions of algorithmization and algorithm. The author's algorithm of educational and speech actions of students of a technical university is presented. The MS Teams service is proposed as a platform for implementing digital collaborative technology. Particular attention is given to the effectiveness of using digital collaborative technology using the algorithm of collaborative activity. It is concluded that the use of digital collaborative technology using the algorithm of collaborative actions is relevant, as it contributes to the development of the ability to solve general professional tasks, without which the image of a highly sought-after professional in the digital era is unthinkable. As pedagogical support, it is proposed to use the developed algorithm using the problem as an incentive for intensifying interaction in the pair mode. Analysis of the students' oral answers revealed that the dialogue built with the algorithmic component is more meaningful and constructive.

Keywords: algorithmization, collaborative activities, collaborative action, technical university.

Introduction

In the digital age, an objective need is ripening to form the necessary professional competencies (Aladyshkin et al. 2020), which is very difficult without the use of new digital collaborative technologies, both in the classroom and in the process of extracurricular collaborative activities at a technical university.

The issues of effective organization and high-quality methodological support for teaching technical university students using digital tools are one of the most relevant areas of research activity of researchers and teachers (Munday et al. 2020). The choice of software should correspond to the objectives of the study discipline, involving its use, and it is also necessary to take into account the algorithm of work using a specific software tool, which, in turn, can help open up new potential opportunities that were not previously available.

Background and means to resolve the problem

Digital collaborative support technologies allow both enriching existing processes with simplified feedback options and expanding the understanding of the learner's collaborative actions through the range of data collected and the possibilities for their analysis and interpretation (Ludvigsten et al. 2017; Rosé and Ferschte 2016), which facilitates a real, rather than a declared transition to practice. Recently, the term "algorithmization of activity" (Akhmedyanova 2020, Predeus et al. 2020), which denotes the introduction of technology into the learning process, has begun to be used in the educational community. Algorithm is understood to mean the exact execution by the executors of a sequence of actions aimed at achieving the goal for a certain type of tasks under certain conditions, as a result of which, based on the source data, the desired result can be obtained. The idea of

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