Pedagogical systems, pedagogical processes and pedagogical technologies in the modern pedagogical knowledge

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ABSTRACT
According to authors’ idea this paper presents a new general approach to the theoretic pedagogics and the pedagogical practice. As the substance authors use following terms: pedagogical system, pedagogical process, pedagogical technology. Pedagogical system describes the main bounds and relations, structure and organisation of an object. Pedagogical process describes, what takes place in the studied object, and the pedagogical technology shows, how this one takes place. The special attention is given for psychological mechanisms of learning activity, mastering knowledge, developing learners’ cognitive skills, including algoheuristic theory (Landamatics). Modern classification approaches to the pedagogical technologies are analysed, some parts of these approaches are corrected and improved.
Authors use the general conceptual model of instruction, proposed by Aleksandrov. In the basis of practical implementation of stated theoretical approach authors place the conception of complex tutoring system, which includes a teacher, PC, a textbook, usual technical aids of learning, but the main, organising and managing role belongs to the teacher. Composition and functions of single elements of complex learning system change depending on current didactic problems. A table with possible variants of using elements of complex learning system for different didactic problems is given in the paper. There are those variants, which were partially approved by professor Aleksandrov’s doctoral students.
Paper proves also, that from the view of the low of conversion of quantity changes to quality ones, synthesis of new pedagogical systems and, accordingly, new pedagogical analogies, is possible. As the result of it the total number of all possible synthesised objects (systems) is 15.
This paper is for all specialists working on the pedagogical activity, doctoral students etc. It takes on special significance for scientists, who develop computer learning technologies and would like to solve these problems on the good psychologically-pedagogical basis.

Keywords
Pedagogical system, Pedagogical process, Pedagogical technology, Instruction