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Smart-space architecture for IT-competency building in physical education specialist

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Abstract

© 2018 Teoriya i praktika fizicheskoy kul'tury i sporta. All rights reserved. The study analyzes the issues of due IT-competency building in a modern physical education specialist; and offers the key provisions for the students' immersion in the relevant education smart-space with the following key ideas and components: practice-driven education concept; networking cooperation of the university with the general secondary education school system; and smartspace educational elements based on the cloud technologies being applied in the digital education courses. The article gives an overview and groundings for the smart-space architecture for the IT-competency building in a physical education specialist; and analyzes benefits of the proposed architecture as verified by the model piloting experiment. Objective of the study was to make provisions the IT-competence being effectively built up in the modern physical education specialists with due regard to their actual professional needs and responsibilities; and assess benefits of the proposed smart-space architecture to secure high efficiency of the process. The proposed model architecture was tested in late 2016 on students majoring in the Physical Education and Life Safety discipline at the Yelabuga Institute of Kazan Federal University. The model piloting experiment showed its benefits as verified by the students' progress in the professional competency building process; i.e. the education curriculum and learning stages designed within the smart-space architecture of the education specialist training were found successful. The smart-space architecture for the IT-competency building in a physical education specialist may be successful only when prudently structured to include the education process design and reasonably designed and applied road map; secures the students' immersion in the digital smart-courses; and offers duly designed and applied web-portfolios.

Keywords

IT competency, Physical education specialist, Road map, Smart education, Smart-space architecture, Student

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