

Structure and content of e-learning information environment based on geo-information technologies

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Abstract

© 2017 Authors. The urgency of the paper is determined by the continuous information development of all spheres of education: integration of new knowledge, accessibility of information technologies and computer facility aids, professionalization and computerization of educational activities. The purpose of the research is to develop the structure and content of learning information environment in a higher education institute on the basis of geo-information technologies. The authors show the possibilities of using geo-information technologies in teaching outside the scope of their typical application (geographic, geodetic, geological education). The principles of designing the information environment for training on the basis of geo-information technologies are developed, which is built into the general information environment of higher education institute. The peculiarities of using geo-information technologies in non-core training are revealed, and the structure of learning environment modules based on geo-information technologies is developed and their content is described. The authors adapted the system of criteria evaluating the effectiveness of training information environment, carried out an empirical study of the quality of education information environment in a higher education institute on the basis of geo-information technologies. The paper is intended for teachers, specialists in the field of information as means of education.

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Keywords

E-learning information environment, Education, Efficiency criteria of e-learning information environment, Efficiency diagnostics, Geo-information technologies, Information environment

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