

Electronic scientific-educational complex “geoinformation technologies and systems”

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Abstract

© SGEM2016. The Electronic scientific-educational complex (ESEC) “Geoinformation Technologies and Systems” was created in order to improve the quality of education in the fields of geoinformatics and information technologies. The complex provides scientific support of the educational process, integration of innovative research and educational activities. Multi-user version of the ESEC allows to organize joint training of students. During the course of self-study, students have the opportunity to communicate with each other, and thereby to develop the skills of collective work on large projects using modern and advanced information technology. At the same time the teacher can control the educational process. The students work with portal resources and knowledge base on the three levels of control: training testing (training, self-control with reference to the sections in which wrong answers were given); control testing with evaluation of knowledge; final testing (certification: credit or exam), the results of which automatically generates an academic records. The ESEC provides comprehensive support for the scientific and educational activities – from training sessions (lectures, seminars etc.) with the use of modern educational technology to independent research work of students. In addition, the ESEC is the technological basis for further development and approbation of the concept of electronic research and educational complex: the methodologies of design and creation of hardware, software, information and organizational support, experimental evaluation of the complexity of the implementation of the developed architecture, evaluating the effectiveness of new educational technologies.

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Keywords

Electronic scientific-educational complex, Geoinformation technologies