Distributed model of teachers education at Kazan federal university

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The topic of the article is relevant due to the necessity of higher pedagogic education modernization. The requirements for the content of schooling and higher education is changing quickly as scientific knowledge accumulate. Preparing a teacher for XXI century is an essential task for the present day. The authors aimed to develop the educational standard in pedagogical education at Kazan federal university. The article describes the projectization process. The leading methods for the research were theoretical study, modeling, questionnaire survey and others. SFU is able to educate future teachers of physics within the distributed model and even advance it now as every institute at KFU has a pedagogical department. In the article we present bibliography analysis on the issue, the results of questionnairing the students of the Institute of Physics in non-pedagogical major, gradual formulation of the Standard, Enclosure to the Standard, educational paths, one of which a student can select, curriculum versions, conceptual framework of methodic preparing. The materials of the article demonstrate the reasoning and sequence of the author on the work on Educational Standard in specialization 44.03.01 Pedagogical education, profile: teacher (subject).

Keywords: education, teacher, teacher education, distributed model, educational standard.

References

Vikas Kumar & Deepika Sharma (2016). Creating Collaborative and Convenient Learning Environment Using Cloud-Based Moodle LMS: An Instructor and Administrator Perspective. *International Journal of Web-Based Learning and Teaching Technologies (IJWLTT)*, 11(1), 35-50. DOI: 10.4018/IJWLTT.2016010103

Amy Hutchison & Jamie Colwell (2016). Preservice Teachers' Use of the Technology Integration Planning Cycle to Integrate iPads Into Literacy Instruction. *Journal of Research on Technology in Education*, 48(1), 1-15.

Khuziakhmetov A.N., Nasibullov R.R. (2012). Structure and content of distance learning in the system of higher vocational education. *Education and self-development*, *5*(33), 42-46.

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- Ninetta Santoro & Aileen Kennedy (2016). How is cultural diversity positioned in teacher professional standards? an international analysis. *Asia-Pacific Journal of Teacher Education*, 44(3), 208-223. DOI:10.1080/1359866X.2015.1081674
- Tananuraksakul, N. & Hall, D. (2011). International students' emotional security and dignity in an Australian context: An aspect of psychological well-being. *Journal of Research in International Education*, 10(2), 67-78. DOI: 10.1177/1475240911410784
- Van Driel, J. H. & Berry, A. (2012). Teacher professional development focusing on pedagogical content knowledge. Educational Researcher, 41, 26-28.
- Talitha, C., Visser, Fer G.M., Coenders, Cees Terlouw, Jules M. Pieters (2010). Essential Characteristics for a Professional Development Program for Promoting the Implementation of a Multidisciplinary Science Module. *J Sci Teacher Educ.*, 21, 623-642. DOI 10.1007/s10972-010-9212-1
- Fer Coenders & Cees Terlouw (2015). A Model for In-service Teacher Learning in the Context of an Innovation. Sci Teacher Educ, 26, 451-470. DOI 10.1007/s10972-015-9432-5
- Gabdrakhmanova, R.G., Khusainova, R.M., Chirkina, S.E., (2015). Developing career development courses is an integrant part of work on education project. *Psychological science and education*, *7*(*4*), 73-93. doi:10.17759/psyedu.2015070408
- Gabdrakhmanova, R.G. (2015). Modern forms of organisation of students' educational activities. *Kazan pedagogical journal*, *3* (110), 79-82.
- Tchoshanov, M., Shakirova, L., Shakirova, K. et al. (2015). Examination of lower secondary mathematics teachers' content knowledge and its connection to students' performance. *Int. J. of Science and Mathematics Education*, *4*, 1-20. DOI 10.1007/s10763-015-9703-9. http://link.springer.com/article/10.1007/s10763-015-9703-9.
- Gabdrakhmanova, P.Γ. (2012). Forms of knowledge control at the lessons of technology. school and production, 2, 25-27.
- Valencia, S., Martin, S., Place, N. & Grossman, P. (2009). Complex interactions in student teaching: Lost opportunities for learning. *Journal of Teacher Education*, 60(3), 304-322. http://dx.doi.org/10.1177/0022487109336543
- Ashman, G., Short, M., Muir, T., Jales, A. & Myhill, M. (2013). International pre-service teachers: A strategy to build skills for professional experience. *International Journal of Innovative Interdisciplinary Research*, *4*, 61-72.
- Valleeva, R.A. & Shakirova, K.B. (2015). Development of the Future Mathematics Teachers Constructive Skills. *International Electronic Journal of Mathematics Education*, 10(3), 221-229.
- Gabdrakhmanova, R.G., Khuziakhmetov, A.N., Yesnazarova, U.A. (2015). The formation of values of education in the mathematics teachers of the future in the process of adaptation into university study. *International Electronic Journal of Mathematics Education*, 10(3), 147-155.
- Khusainova, R., Chirkina, S., Gabdrakhmanova, R. (2015). The Role of the Reflective Activity of Students in Individual Educational Trajectory. *Review of European studies*, 7(5), 146-152.
- Khuziakhmetov, A.N. & Gabdrakhmanova, R.G. (2015). Educational Process: Co-Authorship of the Teacher and the Student. *The Social Sciences*, 10, 1736-1742.
- Khuziakhmetov, A.N. & Gabdrakhmanova, R.G. (2015). Preparing future teacher for carrying-out a programme of education and socialization. *Kazan pedagogical journal*, *3*, 50-54.
- Rubtsov, V.V., Margolis, A.A., Gurudgapov, V.A. (2010). Pragmatic content of psychological and pedagogical preparation of modern teacher for new school. *Cultural-Historical Psyhology*, *4*, 62-68.
- Margolis, A.A. (2014). Requirements for modernization of principal professional education programs for teaching staff education in accordance with teachers' professional standard: proposals for implementation of pragmatic approach in pedagogical staff preparation. *Psychological science and education*, 2, 1-18. URL: http://psyedu.ru/journal/2014/2/Margolis.phtml (04.08.2014).
- Sobolev, A.V. (2015). Programme of development of pedagogical education: new challenges (current status and development trends of state policy in the sphere of higher pedagogical education. *Psychological science and education*, 20(5), 5-13.
- Sharonova, N.V., Sharonova, N.V., Feschenko, T.S. (2015). The project of perspective model of teacher education in the context of introduction and implementation of general education at educational organization. *Young scientist*, 14.1(94.1), 4-16.