

Innovations in Modern Education and Teachers Competences

Danimir Petar Mandic, Aleksandra Mandic

Abstract

We live in information society where production, processing, storage and using of knowledge are important factors of modern development, interpersonal relationships as well as relationships among states and nations. Traditional teaching is most often criticized for insufficient activity of students, inadequate teaching intuition and dynamism, the impossibility of individualisation of teaching, lack of continuous feedback on the achievements of students and others. Intensive development of telecommunications technology and computer systems, permanent connection to the Internet and WEB based learning systems enabled better use of computer technology in teaching. Computer based knowledge systems provide flexible organization of activities, lectures and study materials and a complex evaluation of students. Interactivity and quality of presented materials, using multimedia and hypertext, offer considerably richer contents compared with teaching carried out in traditional classroom. Managing changes in education requires particular educated leaders. Managing innovations is very complex, because the teacher's resistance occurs due to insufficient capability and inadequate equipment in schools. Overcoming this problem involves active participation in seminars for teacher training. Education, as a rule, slowly opens the new technologies in relation to production, transport, services. et al. However, young people at home and out of school live in a technologically rich environment expected changes in education in accordance with the imperatives of education for 21 century.

Keywords

Computers, Educational Technology, Education, Innovations,, Teaching.,

References

Bumbova, A; Gavendova, H;Oulehla, H.. (2007):What Can Multimedia Add to the Optimization of Students' Study Habits?, 6th WSEAS International Conference on EDUCATION and EDUCATIONAL TECHNOLOGY (EDU'07), Venice,.

Mandic, D. (2001) Information technology in education, Faculty of philosophy, Sarajevo, pp. 17-19.

Mandic, D (2001).: Internet technologies in education, Beograd, pp 36-38.

Mandic, D (2010).: Knowledge Based Multimedia System for Teacher's Education, in the book 9th WSEAS International Conference. on ARTIFICIAL INTELLIGENCE, KNOWLEDGE ENGINEERING AND DATA BASES (AIKED '10), , University of Cambridge, Cambridge, United Kingdom, pp.221-226.

Mandic, D (2012).: Artificial intelligence in Supervised Learning, in the book 11th WSEAS International Conference. on ARTIFICIAL INTELLIGENCE, KNOWLEDGE ENGINEERING AND DATA BASES (AIKED '12), , University of Cambridge, Cambridge, United Kingdom, pp 21-26

Mandic, D, Lalic, N., Bandjur, V. (2010).: Managing Innovations in Education, in the book 9th WSEAS International Conference. on ARTIFICIAL INTELLIGENCE, KNOWLEDGE ENGINEERING AND DATA BASES (AIKED '10), University of Cambridge, Cambridge, United Kingdom, pp.231-237.

Mandic, D, Martinovic, D., Lalic, N., Bandjur, V. (2011).: Decision Support System in Physical Education, in the book 10th WSEAS International Conference. on ARTIFICIAL INTELLIGENCE, KNOWLEDGE ENGINEERING AND DATA BASES (AIKED '11), University of Cambridge, Cambridge, United Kingdom, pp.309-313

Mandic, A (2011).: Some improvements in didactics of mathematics at the Preschool Teacher Training College, International conference: Improving Specific Subject Didactics at the Teacher Training Faculties and the corresponding Instructions, SANU, Beograd,

Mandic A., Stojanovic, A (2011): Integrative Approach to Didactic Mathematics at the Preschool Teacher Training College, International conference: Transnational Sustainable Methods for Quality Increase in Higher Education, Timisoara

Šimović, V.; Varga, M. (2012): Procurement Management System with Information Support for the Project, Croatian Journal of education, Vol. 14, No. 3., Faculty of Teacher Education, Zagreb, pp 561-593

Solesa, D; Solesa-Grijak, Đ (2011).; ICT competences of teacher and educators, Croatian Journal of education, Vol. 13, No. 2., Faculty of Teacher Education, Zagreb,, pp 8-37

Vilotijevic, M. (1999): Didactics, Naucna knjiga, Beograd.