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PROBLEMS OF DISTANCE EDUCATION IMPLEMENTATION AS A SELF-LEARNING IN HIGHER EDUCATION INSTITUTIONS OF UKRAINE

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The main problems associated with the introduction of distance education in Ukraine are analyzed in this paper. Considering the experience of distance education it has been concluded that improvements of the legal framework of the distance education and creation of informational and educational collaboration of universities in Ukraine are needed.
Keywords: *distance learning, distance courses, e-learning platform.*

Introduction

Education and science are the main productive forces that determine the competitiveness and viability of any state during the post-industrial informational development of world civilization. Analysis of professional lecturer actions shows that they have not only as educational, developing functions, but performing a number of interrelated functions: propaedeutic, rehabilitation, orientation, compensation and the function of socialization. Changing of paper data medium to electronic, widespread computer networking, Internet development helped to create new educational systems of a new generation. So more than a third part of higher educational institutions of U.S.A. provides the opportunity to receive knowledge on the remote basis. For the EU countries we should mention the UK, Germany, Italy and France. It is life, science and technological development that have raised new demands for education, because it will facilitate transformation to information society. All this leads to the need of radical modernization and introduction of new information and communication technologies into all spheres of public life.

Objectives

There are a few remote centers of the high education appeared in Ukraine last years. We should pay special attention to Ukrainian Institute of Information Technologies in Education of the National Technical University "Kiev Polytechnic Institute" (NTU "KPI"), Electronic Media Resource Center of Ukraine and Ukrainian Research and Academic Network (URAN). CMS (content management system) and LMS (learning management system: Moodle, OLAT, ATutor, Ilias, Claroline, Docebo, IBM Lotus LearningSpace, etc.) technologies [1] are also should be included to the basic platforms of e-learning support. The most widespread in Ukraine became Moodle, IBM Lotus LearningSpace, WebCT, E-learning Server become. But the level of distance education as a self-learning in higher education does not meet current needs. Firstly, it refers to the lack of coverage of distance learning, lack of developed distance learning courses, trained specialists in this field. Secondly, the problem of legal, financial and organizational support that requires the close attention of the Ministry of Education and Science of Ukraine (MES). Thirdly, created remote courses are based on entirely different paradigms of interface, using completely different approaches to the formation of their content [2]. Since 2008 the author has developed 2 interactive textbook and 2 distance courses for disciplines "Microcircuit technique", "Physics of Sound" and "Computer science and information technologies" (for students of the Lugansk state institute of culture and arts) [3-5]. Resources are certified and successfully implemented in the educational process of several universities - East Ukrainian Vladimir Dahl National University, Lugansk State Institute of Culture and Arts, Kharkov National University of Radio and electronics, Ukrainian Institute of Information Technologies in Education of the NTU "KPI". The results of scientific work were reported in 9 international conferences, awarded with the diploma of the Institute of Innovative Technologies MES of Ukraine on the festival of pedagogical innovations and honorary diploma of the Ministry of Education and Science of Ukraine and Academy of Pedagogical Sciences of Ukraine at the XII International Exhibition of the Educational

Establishments "Modern education in Ukraine – 2009". In 2010 the National Contest Committee of the Ukraine's Innovative Intellect Competition completed the assessment of works submitted in all regions of Ukraine. The assessment was based on the following criteria: logical and complete presentation, originality of the research, creativity and innovativeness, grounded and practical conclusions and proposals, references to the experience of the countries that have solved similar problems. Scientific work of the author has been awarded by the certificate "Modern Intellect of Ukraine" (fig. 1).

Conclusions

There is a strong need of improvements of the legal framework for distance education, implementation of uniform standards, development of innovative remote systems of training quality monitoring, appropriate training of lecturers and creation of informational and educational collaboration of universities in Ukraine, to work out the concept of adaptive e-learning methods [6-9]. Such measures will facilitate access to education for representatives of vulnerable social classes, handicapped persons and realization of the "lifelong education" concept.

Fig. 1. The certificate "Modern Intellect of Ukraine – 2010"

Acknowledgments

REFERENCES

1. Valuisky V. N. Platforms of Distance Learning Support. The Analysis and the Compatibility / V. N. Valuisky // Journal of Multimedia Aided Education Research. – Japan. – Vol. 2. – № 1, 2005. – P. 103–111.

2. Малюкова І. Г. Використання інформаційно-комунікаційних технологій у вищій освіті України: поточний стан, проблеми і перспективи розвитку [Електронний ресурс] : аналітичний огляд / І. Г. Малюкова, І. Б. Жиляєв, Ю. І. Якименко, В. І. Тимофеєв, В. М. Радченко. – 2009. – Режим доступу до матеріалів : http://uiite.kpi.ua/ua/about-uiite/public/singlerecord.html?tx_wfqbe_ pi1[id]=17.

3. Воронкін О. С. Мікроелектронні підсилювачі спеціального призначення [Електронний ресурс] : дистанційний курс / О С. Воронкін. – Харків : ХНУРЕ, 2009. – Режим доступу до курсу : http://www.dl.kture.kharkov.ua/course/view.php?id=1335.

4. Воронкін О. С. Мікроелектронні підсилювачі вимірювальних пристроїв [Електронний ресурс] : електронний підручник / О. С. Воронкін. – К. : УІІТО НТУУ "КПІ", 2008. – Режим доступу : http://moodle.udec.ntu-kpi.kiev.ua/moodle/course/view.php?id=83.

5. Воронкін О. С. Фізичні принципи утворення, розповсюдження, реєстрації та аналізу звукових коливань [Електронний ресурс] : дистанційний курс / О. С. Воронкін. – К. : УІІТО НТУУ "КПІ", 2009. – Режим доступу до курсу : http://moodle.udec.ntu-kpi.kiev.ua/moodle/course/view.php?id=111.

6. Brusilovsky P. Adaptive and Intelligent Web-based Educational Systems / P. Brusilovsky, C. Peylo // International Journal of Artificial Intelligence in Education. – № 13, 2003. – P. 156–169.

7. Brusilovsky P. Methods and Techniques of Adaptive Hypermedia / Peter Brusilovsky : in P. Brusilovsky and J. Vassileva (eds.) // User Modeling and User-Adapted Interaction. Special Issue on Adaptive Hypertext and Hypermedia. – 1996. – № 6 (2–3). – P. 87–129.

8. Воронкін О. С. Web-тести як головний компонент інтелектуально-адаптивних систем дистанційного навчання / Олексій Сергійович Воронкін // Інтернет-освіта-наука – 2010 : зб. матер. 7-ої міжнар. конф., (Вінниця, 28 вересня – 3 жовтня 2010р.). – Вінниця : Вінницький нац. техн. ун-т, 2010. – С. 169–172.

9. Sosnovsky S. Web-based Parameterized Questions as a Tool for Learning / Sergey Sosnovsky, Olena Shcherbinina, Peter Brusilovsky : in Allison Rossett (eds.) // Proceedings of E-Learn. – 2003. – November 7–11. – P. 2151–2154.