

MATERIÁLY
XI MEZINÁRODNÍ VĚDECKO - PRAKTICKÁ
KONFERENCE

«VĚDA A VZNIK - 2015»

22 - 30 prosinců 2015 roku

**Díl 8
Pedagogika**

Praha
Publishing House «Education and Science» s.r.o
2015

OBSAH

PEDAGOGIKA

DISTANČNÍ VZNIK

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Процесс обучения не должен заканчиваться в высшем учебном заведении, он должен быть непрерывным в течение всей жизни. Обучение с использованием электронных образовательных ресурсов позволяет сформировать целостную картину мира у современного человека, достигнуть определенный социальный статус, получить возможность адаптироваться к изменяющимся условиям жизни, удовлетворить индивидуальные образовательные потребности.

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METHODS OF TRAINING FUTURE TEACHERS COMPUTER SCIENCE INFORMATION SYSTEMS MANAGEMENT PROCESS

Today our society is on the threshold of a new wave of innovations which can seriously change the existing educational process. Transition to informational society is followed by wide spread of information technologies in all spheres of life, science, production and others. It is natural that information technologies also penetrate into education. The process of education informatization must solve many tasks in this sphere including the problems of education management.

Increase of information value in educational process has a higher order than increase of efficiency of learning these scopes by a student. This fact determines the necessity of correcting the programs of preparing students for pedagogical higher education institutions in the filed of informatics and information technologies.

Students must be oriented in huge flows of information, to pick out necessary information; to adapt quickly to innovations in the sphere of information technologies, to be always ready to teach on the program different from the program he was taught; to increase constantly their qualification, professional competence in the conditions of fast obsolescence of the content and structure of educational material in informatics.

In modern world it is difficult to overestimate the value of information, in this connection the management processes in which the main flows of information necessary for realizing any activity are of special importance.

Improving the management methods is necessary for acceleration of making management decisions, maintenance of information relevance in the conditions of continuous growth of information amount. The only possible decision is using information technologies means in management processes. Nowadays in many educational establishments information management systems are introduced which enable to automate and increase the quality of teachers' work. Introduction of information technologies means into education management system requires specialists of high qualification capable of organizing this process both in a certain educational institution and in structurally more difficult educational systems. In programs training of future teachers of informatics include courses of training in use of means of information technologies in management of educational processes.

The content of such disciplines is insufficiently developed therefore there is no notable result in increasing the readiness level of pedagogical staff for introducing information technologies to management system yet. So, there is a contradiction which displays on the one hand the need of schools in informatics teachers ready to develop and use information management systems of educational process, and on the other hand lack of methodical development works enable to realize training of specialists of appropriate qualification level in pedagogical universities.

To provide development of readiness of informatics teachers for introduction of information systems in educational process management it is necessary: to sort out on the basis of analysis of work experience of secondary schools the block of problems of high school management which solution will provide success in organizing educational process and the quality of assessment its results; to realize training of students to solve the chosen problems by means of information management technologies at school in two stages: a) analysis of management problem; b) determination of the most convenient information management system which corresponds to the requirements of modern education market and capable to perform any set tasks; to use project-research training methods enabling to improve such important qualities of a future teacher in adaptations of information systems as analytical and estimating skills, ability to find the most rational solution of the set task, discussion skills, ability to work in a team.

Development of higher schools was built on the model of accumulating knowledge. It means that knowledge and skills are kind of construction material. Much knowledge acquired by students in higher educational institutions was unnecessary, so the social order to a higher educational institution was revised, confirming transition of our society from post-industrial to informational one. In order our students to feel comfortable in modern society the state seeks to improve the teaching model in higher educational institutions, replacing the model of giving a lesson with personally focused model, where each student is considered to be an individual, and teaching is aimed at self-development of students with support of a teacher.

In the conditions of informatization of education and knowledge economy the uniform educational information environment must provide a new level of educational process and synthesize activity of all subjects of educational process. Such complete system demands the corresponding provision: material and technical, program, methodical, legal, organizational and technological.

It is proved that use of information technologies in education intensifies educational process by 3 times, at the same time quality of education improves by 2-3 times, that is confirmed by scientists-teachers of different states (USA – Simur Papert, professor, the founder of pedagogical philosophy of constructionism, India – Abdoul Vahid Han, the deputy General Director of UNESCO, Russia – Scientific Research Institute of Education Informatization of Russian Academy of Education Robert I.V., special research of V.A. Kaymin; Kazakhstan – Scientific School of professor Nurgaliyeva G.K.).

According to the results of foresite-forecasts, the package of new technologies in the world educational process can already be formed by 2025, that will demand fundamentally new professional competences from research associates and ordinary teachers, which are not always possible to be predicted nowadays. The world lives in the conditions of accelerated «inflation of qualifications» [2] when competences, which are actual today, can be unclaimed tomorrow and even more – they can become a restriction for further social and economic development. In this connection, in this scientific work we have done a separate foresite-management and developed the course – «Use of informational management systems of educational process», which is expected to give future teachers a new stimulus in the future in their professional activity.

Transition to information society is followed by a wide spread of information technologies (IT) in all life spheres – in science, production, defensive sphere and others. Penetration of information technologies in education is natural. The process of informatization of education is urged to solve many problems in this sphere, including the problems of education management. Growth of amount of information, circulating in the society, has a higher order than a gain of efficiency of learning these volumes by a person. This fact defines the necessity of changing in pedagogical higher education institutions programs of preparing specialists in the field of informatics and information technologies. Such specialists must:

- be guided in huge flows of information, to sort out necessary information in them;
- adapt quickly to innovations in the field of IT, be always ready to conduct classes in the program, different from the program he was taught;
- improve constantly his qualification, professional competence in the conditions of fast obsolescence of the contents and the structure of education material in informatics [3].

In the modern world it is difficult to overestimate the value of information: «who is well informed – that holds the situation». In this connection management processes which have the main flows of information necessary for realization of any activity are of special importance. Improvement of management methods is necessary for speeding up making administrative decisions, maintenance of relevance of information in the conditions of continuous growth of amount of information. The only possible decision

is use of IT means in management processes. Today many educational institutions use information systems (IS) of management enabling to automate and increase quality of work of administrative personnel and teachers.

Introduction of means of information technologies into the system of education management requires high-skilled professionals able to organize this process both in a separate educational institution and in structurally more difficult educational systems [3]. Programs of preparation and retraining of informatics teachers includes courses in use of IT means in management of educational processes. The content of such disciplines is insufficiently developed, therefore there is no notable result in increasing the level of readiness of pedagogical personnel for introducing information technologies in the school management system. Thus, there is a contradiction where, on the one hand, schools need informatics teachers who are ready for development and use of information management systems in educational process, on the other hand – there is a lack of methodical developments enabling to realize education of specialists of appropriate qualification level in pedagogical universities.

We have developed the course called «Use of information systems of educational process management». The number of credits is 2. (Table 1)

Short description of the course

«Use of information systems of educational process management»

The purpose of the course is preparing students in speciality informatics to use of information management systems in educational process in their future professional activity.

Table 1

Thematic plan of the course

№	The theme of lecture, its content	Number of hours
Didactic bases of creation and use of ICT means		
1.	History of development of ICT means at school. Behaviorism stage. Programmed education and its transfer to new stages of ICT development. Cognitive stage of ICT development.	1
2.	Tool environments. Teaching environments. Parallel and cyclic basis of creating computer tutorials.	1
3.	Stages of ICT development in education. Their regularity. Activization of education through ICT means.	1
4.	Methodical aspects of ICT use in education Use of ICT at stages: studying new, formation of skills, generalization and systematization, control and accounting of knowledge and skills.	2
5.	Main directions of ICT use: modeling, account and control, support of educational process.	1
6.	General approaches to assessment of ICT means quality in education. Ergonomic and psychological requirements to the quality of educational ICT means.	1
7.	Assessment of quality of contents structures, methods and ways of computer learning, control and accounting of knowledge on the basis of different approaches.	1
Directions and prospects of using ICT in education		

8.	Electronic and virtual libraries and catalogs. Electronic textbooks and distance courses. Virtual schools.	1
9.	Automation of administrative actions in education. Systems of assessment of knowledge and skills. Its theoretical bases and practical realization.	1
10.	Electronic versions of testing systems and UNT. Monitoring systems of education results.	1
11.	Prospects of object-oriented approach in the Internet. Distribution of educational systems in the global network.	1
12.	Information-search and information directory systems in education	1
13.	Prospective directions of ICT development. The programs: clever things, intellectual buildings and houses, intellectual clothes, mobile training systems, mobile applications, etc.	2
TOTAL:		15

The tasks of the course are:

- formation of knowledge about the main directions of information technologies in education;
- formation and development of skills of application information technologies in management of educational process;
- formation of skills to use information technologies in activities on school informatization;
- development of skills of mastering information technologies of online projects in the course of teaching informatics.
- formation of ability to integrate new information technologies into educational process and to use them in the course of teaching informatics.

The content of the course is normalized with the existing standard. This program conforms to this standard. It gives much attention to school computer room as organizational and methodical unit of using ICT in education. The first block of questions consisting of two modules is devoted to it. The second block is connected with didactic bases and the directions of using ICT.

The laboratory practical work is based on individual projects realized within some school subjects or sections. Within such projects it is offered to create a virtual library devoted to using ICT in any school subject or theme. The main sections of this library are the main directions of using ICT in education.

The method of teaching future teachers to use information systems of educational process management is a part of didactics which is in turn is a part of pedagogy. Therefore, it uses the methods of research of pedagogy, the laws and the principles of didactics are performed. While teaching future teachers the methods of teaching to use information systems of educational process management all known methods of organization and implementation of educational cognitive activity are used, namely, all-didactic teaching methods: information and receptive, methods of problem statement, heuristic, research and so on.

By teaching our developed course «Use of Information Systems of Educational Process Management» the most effective teaching method is the method of interactive teaching. With the help of «Open educational site» Interactive teaching is the system

of methods and means providing possibilities of creative participation of students in the course of mastering new knowledge, formation of creative thinking and cognitive interests of personality is realized through information systems of educational tasks which are used by teachers in the course of education.

The developed course systematized and consolidated the knowledge about the method of teaching future teachers to use information systems of educational process management as an educational discipline and in the course of teaching future teachers to use information systems of educational process management to students of different age groups.

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TOXICOLOGICAL CHEMISTRY. NEW TEACHING STRATEGIES TO IMPROVE TEACHING AND LEARNING

Ukrainian medical and pharmaceutical universities have been undergoing reform over the last fifteen years. However the teaching methods have not changed sufficient to satisfy the requirements of the education system reform. Traditional teaching approaches still dominate the campuses of universities in Ukraine. Teachers give formal lectures to transmit knowledge. Students receive in passively and are expected to reproduce it accurately in examinations. All students are different because each has a unique experience of the world. Giving the same piece of information to all students at the same time may only work for those whose schema can assimilate it [10]. Not all students are at

Vydáno Publishing House «Education and Science»,
Frýdlanská 15/1314, Praha 8
Spolu s DSP SHID, Berdianskaja 61 Б, Dnepropetrovsk

**Materiály XI mezinárodní vědecko - praktická konference
«Věda a vznik – 2015».** - Díl 8. Pedagogika.: Praha. Publishing
House «Education and Science» s.r.o - 104 stran

Šéfredaktor: Prof. JUDr. Zdeněk Černák

Náměstek hlavního redaktor: Mgr. Alena Pelicánová

Zodpovědný za vydání: Mgr. Jana Štefko

Manažer: Mgr. Helena Žákovská

Technický pracovník: Bc. Kateřina Zahradníčková

XI sběrné nádobě obsahují materiály mezinárodní vědecko - praktická
konference «Věda a vznik» (22 - 30 prosinců 2015 roku)
po sekcích Pedagogika.

Pro studentů, aspirantů a vědeckých pracovníků

Cena 270 Kč

ISBN 978-966-8736-05-6

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