

Integration of the Theory of Education and Practice Education as a determinant of a modern school quality

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Professional motivation of university students

Sándor Albert

Abstract

The article shows the results of the survey about the professional motivation of students at the J. Selye University.

The survey involved students of the first year. As a research method we used questionnaires and we used statistical processing of the results.

Keywords

Student, survey, professional motivation, research method, questionnaires

Implementation of microteaching into pregradual teacher preparation in terms of PF UPJS University in Košice

Ján Bajtoš

Abstract

Microeducation with the very broad and various ways of application and its analytical scope towards the widespreading process in education in the world that cannot be substituted in the pedagogical training. Unfortunately, there, under our conditions, there were not applied these attitudes into the universities programs yet. They are not present either in the training programs for the teachers, neither in the post-graduate programs and neither in the whole-life education of teachers. Author of this article describe the main theoretic the issues and the experience with the microeducative analyse in the education.

Keywords

Pre-gradual study, microteaching, microeducative analysis, the facts about education, psychodidactics

Theoretical background of microteaching and its implementation into pregradual preparation of teachers

Ján Bajtoš – Renáta Orosová

Abstract

The authors of this paper describe the main theoretic issues of micro-educative analyses in education, which cannot be substituted in the pedagogical teaching training. There is increasing attention on improving the quality in pregradual preparation of students and necessity to innovate this quality so that the changes in pedagogical preparation of future teachers will be achieved. Preparation through microteaching seems to be an effective way for students' preparation in their future profession as a teacher. This article contains the results of the survey which is focused on application of micro-educative analyses into the conditions of PF UPJS in Košice.

Keywords

Microteaching, pregradual preparation, psychodidactic competences

Microteaching as a method of teacher training of vocational subjects

Michal Balažovjech – Ján Bajtoš

Abstract

The method of microteaching is regarded one of the effective ways of teacher training. Has indisputable quality in the development of individual competences of student teachers. This method is based on simulations of the teaching process and miniaturization of the conditions. The key to this method is becoming a video, which is usually made of the outcomes and serves as an invaluable tool in obtaining self-reflection skills.

Keywords

Microteaching, micro-output, video, analysis

Teacher training for the quality management system of teaching

Michal Blaško

Abstract

In the contribution is listed quality management system of teaching as a part of quality management system for schools. There are listed objectives, outcomes, quality system and the survey results in which teachers assessed the importance of indicators in each area of quality teaching.

Keywords

Quality management of teaching, quality system of teaching, objectives, areas and indicators of the quality of teaching

The importance of further education for teachers to obtain skills of a trainee teacher

Marta Černotová – Tatiana Majerová

Abstract

This contribution depicts the need for further education for teachers dealing with the skills needed for the trainee teachers and their practice. The authors analyze and present the results of research task VEGA no. 1/4525/07 which have confirmed the importance of target education for the trainee teachers.

Keywords

Trainee teacher, skills, further education, needs, educational experience, undergraduate of teaching

Innovation management in educational institutions

Tatiana Čorejová – Katarína Hrbáčňová – Mária Rostášňová

Abstract

The implementation of innovation at the university environment is solved in this contribution. The system approach by means of the three partial systems was used. The procedure for implementation innovation in the university's environment has three steps. The first step is strategy, which is realized by means of the long term strategy aims. The second step – tactics means condition creation for the innovation implementation. The third step is activation and it is realization of the innovation. The second step – tactics, is divided to three parts, using the reusable three partial systems. The parts are formulated as: success factors of the university selection and its justification for innovation; present state analysis of the innovation solution; and project application for the innovation implementation.

Keywords

Innovations in education, process, process mapping, changes in organisation, three partial systems

The CLIL method in geography teaching – introductory study

Stela Csachová

Abstract

The education reflects the cultural advancement of the society. Language education as a pillar of modern education has become more and more important. One of the promising methods in language teaching context is CLIL method (content language integrated learning) connecting non-language subject teaching with a language teaching. It is traditionally understood as bilingual teaching that means teaching non-language subject in English. In the paper we seek to introduce the method in different understanding as a method of penetrating of English into non-language teaching. On the example of geography, the challenges and difficulties of such teaching will be introduced in the following paper. It will be concluded by a survey conducted with geography teachers on their interest in the CLIL method.

Keywords

CLIL, geography, language teaching

Didactic theory and practice in the doctoral programs

Radmila Dytrtová – Jana Jaklová Dytrtová

Abstract

The subject of this paper is to prepare students for doctoral degree programs in educational activities at university courses in the teaching and presentation skills, organized by the Institute of education and communication.

Keywords

Presentation and communication skills, didactic skills, analysis, pedagogy for higher education

Development of civic competences in school education

Janka Ferencová – Valentína Šuťáková

Abstract

The changes in Europe lead to the new and complex appeals in democratic countries. The education to democratic citizenship is one of the most important goals of European and international organizations. The development of civic competences is one of the most important goals of school education. It is very important to implicate it in formal, informal and concealed curricula of the school. In our contribution we characterize civic competences, the possibilities of their development. The results and practical references of our research of knowledge and attitudes of teachers to the citizen hood and education to democratic citizenship at schools are also part of the contribution.

Keywords

Civic competences, education to democratic citizenship, formal curricula, informal curricula, concealed curricula

Current problems of teaching Russian as a foreign language at Slovak universities

Ján Gallo

Abstract

The article is devoted to the current problems of teaching Russian as a foreign language at the first and second stages of university education in Slovakia. In the article the need of innovating education programmes, enriching the subject scale, especially, in the framework of new education programmes, as well as the problems of issuing the textbooks and lecture notes for students of Russian on the base of the own production is emphasized. The attention is also focused on the possibilities of lectureships and scholarships.

Keywords

Current problems of teaching Russian as a foreign language, educational process, innovation of education programmes, foreign lecturers, study literature, teaching of professional translation

The importance of chemical experiments in project based learning for development of pupils' key competencies

Mária Ganajová

Abstract

In this paper we will point to opportunities to develop pupils' key competencies by realization of chemical experiments. On the Institute of Chemistry, Faculty of Science, Pavol Jozef Šafárik University was realized within the national projects KEGA no. 3/3004/05, LPP 0131-06, KEGA no.3/6301/08 project competitions, in which students carried out experiments. For purpose of obtaining the views and opinions of chemistry teachers and their students about the importance of experiments for development pupils' key competencies, we used the method of interview and questionnaire method. The paper presents the views of teachers and students for the importance of experiments for the development of key competencies of students in project based learning.

Keywords

Chemical experiment, project based learning, key competencies

Correspondence mathematics seminars and its importance in modern school

Róbert Hajduk

Abstract

Correspondence seminars are an essential part of a long process of learning to talented students in primary and secondary schools in Slovakia and Czech Republic. They form a kind of supplement used to study and develop their personalities. In addition, correspondence seminars constitute a good alternative leisure activities and form student's personality. The article discusses the importance of mathematical correspondence seminars in the past and the modern school.

Keywords

Talent, mathematics, correspondence seminars, free time, school

Development of professional competences of foreign language teachers via the synthesis of theory and interactive practical methodological preparation

Dana Hanesová

Abstract

The article presents a project developing professional competences of primary foreign language teachers. It is based on: a) the analysis of the current societal needs (especially the document The conception of teaching foreign languages at primary and secondary schools, 2007); b) the framework of pedagogical-psychological foundations of lingua-didactics and of the theory of primary school teaching; c) the system of teaching profession standards (researched also via the project APVV-0026-07). An interactive approach to developing professional competences of foreign language teachers during their pre-gradual training will be implemented in a set of subjects falling into the category of methodological preparation, such as theory of teaching methodology, several CLIL subjects, observation of school practice and the actual practice (internships) in schools.

Keywords

Professional competences, primary teachers, foreign language teaching

Innovative approaches in the profession of teacher in creating of emotionally – safe environment

Jana Hanuliaková – Katarína Hollá

Abstract

Safe and emotional environment in school becomes an actual question of teaching praxis. The need to ensure that condition in the process of education requires the teacher to control and apply in praxis many specific methods, approaches and strategies. The article presents theoretical analysis and concrete proposals and practical recommendations for teacher which might be inspirative to ensure the emotional comfort and safety in the classroom.

Keywords

Classroom environment, emotional environment, stress in learning, active learning

Electronic bullying matters – current phenomenon in pregradual teacher training

Katarína Hollá – Jana Hanuliaková

Abstract

In recent times, questions concerning unsuitable Conduct of pupils in school environment gain ground more and more frequently. In the article we propose into the preparation of intending teachers how to cope with and resolve the educational problems and cyberbullying in pedagogical practice.

Keywords

Cyberbullying. media education. pre-gradual education of teachers

Linking theory and practice in the vocational training of language

Anna Horňáková

Abstract

The globalization process in a society requires a new profile of university graduate including language skills. Foreign language is not only a means of understanding and communication, but determines the way we think and how we perceive our inner and outside world. Vocational language teaching at universities should prepare students for the academic needs but also the requirements of practice after graduation and build them with vocational language skills to be able to react promptly and properly in the new labour market situations and solve any problems in the target language. In terms of didactics it is extremely important to be able to use theoretical knowledge and skills acquired during university language learning in future practice. Specialization course, what we are satisfied in our survey for the Faculty of Health, University of Prešov in Prešov, is one of the important preconditions linking theory and practice in language learning in higher education.

Keywords

Foreign language, vocational training of language, theory, practice, language skills

The application of constructivist approaches in teaching English language at the 1. level of primary schools

Ľudmila Jančovičová – Eva Lukáčová

Abstract

The aim of this contribution is a presentation of the innovative teaching materials purposed to teach English language at the 1. level of primary schools.

The characteristic features of the created teaching materials for the stated degree of primary schools are the elements of the project teaching and the constructivism, which means that a pupil by his own activity participates in the process of education, he himself searches necessary information, works with a dictionary, an internet, gains information in the discussions with teachers, parents, friends, classmates and becomes co-responsible for his knowledge and the process of learning. The most important criterion for the authoresses in the course of creating the teaching materials had been the motivation of pupils. The tasks are focused on the needs, interests and abilities of pupils and they develop all the communication skills, the receptive and the productive ones. The authoresses of this contribution hold opinion that a pupil is to acquire, practice and develop all the communicative abilities gradually, obviously with respect of their appropriateness in relation to the age of the pupil. In the presented teaching materials there are creative tasks with open and closed solutions, poems, texts, creative dialogues which are imaginative, humorous and original. The illustrations are also original, made to strengthen and multiply the sense of pupils for the aesthetic feeling.

Keywords

English language teaching, primary education, creation of teaching materials, project teaching, constructivist approach, communication skills, motivation of pupils

The education innovation of the future religion teachers by means of creating web sites

Erika Janigová – Lucia Zvedelová

Abstract

Nowadays, often called the time of technology, is information and communication technology an important element in our lives, jobs and schools. The Catholic Church supports these technologies and trying to navigate the faithful to their proper use. This includes the education innovation of the future teachers for Catholic schools, or directly into the education process of religion. Authors of the contribution see one of the paths of innovation in training future teachers in the changing the curriculum of didactic seminars of education religion, which is an important part of the curriculum in the field of "Teaching Academic Subjects - Religion in combination.

Keywords

Innovation, education, web site, religions, the Catholic church

Science literacy – a mere slogan or new idea?

Svatava Janoušková – Jan Maršák – Václav Pumpř

Abstract

The concept of "science literacy" belongs at present day to the concepts which are widely analyzed. There is an effort to define the meaning of the concept in pedagogical literature as well as in the other common journals and in further different contexts. But what does science literacy mean really? How is the concept interpreted abroad? What is the status of this concept in the setting of Czech science education in relation to its conception, educational objectives and content? To find answers to these questions we try to analyze in our paper the different approaches to this concept. We also compare the curricula and other pedagogical documents of selected European and non European countries to bring the different approaches to this issue in these countries. Finally we suggest one of the possible conceptions of science literacy (especially from the point of view of educational objectives and content) within the framework of Czech educational system on its primary and secondary level.

Keywords

Science literacy, science literacy abroad, comparative analysis, science education

New and renewable sources of energy in school practice

Júlia Kalafutová – Mária Ganajová

Abstract

The issue of new and renewable sources of energy is integrated in the content and performance standards of the National Education Program for the second level of primary school ISCED 2 and the National Educational Program for secondary schools ISCED 3A. The importance of its inclusion is that fossil fuels will run out in the next 50 years. Another problem is negative symptoms caused by burning them.

Teachers do not have the didactic materials (textbooks, a set of experiments,) to teach this topic, what causes them considerable problems, because this issue is quite difficult. Therefore, we prepare our students for this reality by means of micro-educative analysis within education of courses Didactics of Chemistry and New trends in chemistry teaching for students of second year Master's degree. The aim of contribution is to highlight the didactic materials - content, methods, forms, tools that teachers can use in chemistry teaching of this topic.

Keywords

Renewable sources of energy, micro-educative analysis, competencies

Environment and regional education in teacher training of primary school teachers (e-learning)

Ján Kancír

Abstract

The article discusses the issue of undergraduate teacher training of primary education with a focus on environmental and regional education. Environmental and regional educations are presented as today's educational reality at all levels of education. Their position in the education system is different and their implementation has significant sensitivity. Environmental education has been developing for several decades and draws on the professional potential of Ecology, Geoecology and Environmental Sciences. Regional training is carried out spontaneously, without stronger anchoring in the education system and without the curriculum framework. The result is significantly thematically and organizationally without banks. It seems very problematic to applicate cross-cutting themes in school educational programs. The background of the situation we are looking for is through teacher intervention with explicit requirement for positive change in educational practice.

Keywords

Environment education, regional education, state educational program, teacher education, e-learning

Didactic electronic test as a means reviewing homeland studies knowledge of the pupils of the third grade of the primary schools

Ján Kancír – Adriana Timčíková

Abstract

The contribution is aimed at testing pupils' homeland studies knowledge of the third grade of primary school (elementary school) through electronic didactic tests. Systematic and regular review and evaluation of results achieved by pupils is an integral part of the educational process. Their detection is increasingly being implemented through didactic tests which make this process objective. The use of computers and the Internet is gaining more and more stable place in primary education. The authors present here created specific measuring equipment, which combined strengths of educational tests and information and communication technologies (ICTs).

Keywords

Didactic electronic test, verification of knowledge, homeland studies, education

Teachers digital literacy development in continual education

Marián Kireš

Abstract

The teachers' digital literacy is one of the significant factors influenced on educational process modernization and effective exploitation of modern didactic technology in education. The incessant digital technology development and wide range tools availability for using in students learning and teacher preparation underlie the requirement of in-service teacher training courses. In the contribution there are the goals, content and methodology of in-service teachers course presented. From the sample group investigation results of the teacher attitude for using of modern didactic technologies in education we can conclude the contribution for teachers' digital literacy development.

Keywords

Digital literacy, in-service teachers training, modern didactic technology, active learning, key competences

Microteaching in pre-service physics teachers training

Marián Kireš

Abstract

The key role in process of curriculum implementation into educational practice has well prepared and by relevant competencies equipped teacher. Because of years practice teacher habits, we can consider that especially young teachers (shortly after graduation) could be well-disposed to new active learning methods oriented on conceptual understanding of key topics. In the contribution there is a system of microteaching activities from the pre-service teacher training didactic seminar presented. We put the main emphasis on inquiry based science education approach in student activities. The didactic analysis of selected training activities and their importance in learning process are presented.

Keywords

Pre-service physics teacher training, inquiry based science education, microteaching

Ecological knowledge as an inventive and creative way in teaching of environmental ethics

Andrea Klimková

Abstract

Ecological Knowledge is become a constituent of Discourse in Cultural (sociable, economics, political) and Science World pressurized Ecological Crisis. Correlation Ecological Ethics and Ecological Knowledge is Interdisciplinarity Project and Polydiscourse – Route to Harmony a Man and Earth.

Keywords

Ecological knowledge, ecological ethics, project of synergy, interdisciplinary

Chemistry teachers education at the Faculty of Science of Charles University in Prague

Helena Klímová

Abstract

The contribution describes the structure of chemistry study programmes at the Faculty of Science of Charles University in Prague. It presents the chemistry teacher's education in three degrees: the bachelor's study focused on chemical education as the first stage in achieving the full qualification (master's degree) required for teaching chemistry at secondary schools, the master's study aimed for achieving the full qualification for teaching chemistry at secondary schools, the Ph.D. study aimed at the research in the field of chemical education. The contribution also refers to the curricula and presents the possibility of achieving the Chemistry Eurobachelor Label® and the Chemistry Euromaster Label® in the one-subject chemistry teaching study.

Keywords

Chemistry education, study programmes, curricula

Observation of the textbooks' didactic efficiency in technical education of economics

Iveta Kmecová – Ján Bajtoš

Abstract

Every country is responsible for their educational system. Education should lead to culturing of each individual. A student should get such education that would enable them to be of use in labour market and to be able to adapt to all the changes. It is necessary for schools to provide quality preparation for this. Quality and efficiency of the preparation depends on teaching aids and other factors (Bajtoš, 1999, 2003).

In the beginning of our contribution we point out the importance and role of a textbook in didactic system. We present some chosen results of the investigation focused on observation of didactic efficiency of textbooks in technical education, including the Economics textbook. We bring in the results of its valuated elements and students' attitude to their satisfaction with teaching of Economics by the medium of the textbook. The results were obtained by the method of survey and some of them were statistically evaluated using Mann's and Whitney's U-test.

The main aim of our investigation was experimental verifying of the education of Economics at Technical High School in Hlohovec using new chapters of the textbook suggested by us. At the end of our contribution we evaluate students' (working with different textbooks) opinions of the educational quality and we adduce a suggestion of recommendations how to improve the educational process.

Keywords

Textbook, teaching text, learning material, didactic equipment of the textbook, didactic efficiency of the textbook, educational process, quality of educational process, efficiency of educational process, education

Evaluation of the education quality with the use of textbook's chapters suggested by us and comparison of its efficiency and students' satisfaction with the existing textbook of economics

Iveta Kmecová – Ján Bajtoš

Abstract

The aim of education is developing student's personality, their culturing and successful integration into practical life. From this point of view every school is responsible for the level of education quality. Textbooks are very important in didactic system. The quality and level of education depends on their quality. In our contribution we present some chosen results of the investigation which was focused on the observation of didactic efficiency of textbooks in technical education. The investigation was realized in the school year 2008/2009. We bring in some partial valuation results of education quality of Economics at Technical High School in Hlohovec. These were obtained by the method of survey. The results are focused on the authentication of hypothesis H2: "The students from the experimental class will value the educational process more positively than the students from revisory class." In our contribution we point out the importance of the role of a teacher in educational process as the main factor of innovation changes. Knowing students' opinions of education quality valuation (by the medium of textbooks) we bring in a recommendation suggestion how to improve educational process at the high school. In the end we outline the need of upgrading efficiency of the educational process.

Keywords

Textbook, teaching text, didactic efficiency of the textbook, educational process, quality of educational process, efficiency of educational process

Roma pupils read with understanding

Martin Kmet'

Abstract

The author's contribution based on the results of an ongoing research project, discusses some data to suggest that understanding the text in the Roma pupils (N = 130) in some regions of Slovak Republic, which is significantly worse than major population. This fact may be one of the reasons why Roma pupils often do not reach the normal school. Outlines some trends and offers some conclusions.

Keywords

Roma pupils, reading, understanding text

A teacher in the process of transformation of education in Slovakia

Peter Kmet'

Abstract

This paper characterizes school curriculum reform that takes place in Slovakia from 1 September 2008. The analysis being presented helps to eliminate a considerable information deficiency on introduction of curriculum transformation of education in Slovakia. The paper describes a teacher's task in curriculum reform implementation and its impact on teacher practice. The contribution is a result of theoretical analysis of secondary sources, especially of Slovak and Czech provenance, as well as it is a result of participating observation of school reality. The paper contains sophisticated information about curriculum transformation of education in Slovakia that can enrich teachers and other educational workers.

Keywords

School, school curriculum, school curriculum reform in Slovakia

Implementation marriage and parenthood's education at schools

Nataša Kocová

Abstract

Work deals with problems of marriage and parenthood's education and its implementation at schools. In first chapter work pounces to poverty of realization of marriage and parenthood's education at schools and resumes principal rules, which must be respected. Second chapter analyzes curriculum of marriage and parenthood's education and third chapter presents arguments why is marriage and parenthood's education important.

Keywords

Marriage and parenthood's education, analyzes curriculum

Intercultural teachers training for educational environment

Igor Kominarec – Edita Kominarecová

Abstract

The authors of the paper deal with the intercultural communication and instruction for couple of years. They worked on two research projects VEGA in 2003-2005 „Preparing teachers for multicultural education“ and „Communicative competencies in intercultural education“ in 2007-2009 in Slovakia. It spelled into publishing scientific studies and books both at home and abroad. In this paper some partial results of the research at chosen universities (Prešov University in Slovakia, Pedagogical Faculty of Ostrava University in Ostrava, WSL in Czestochowa, their branches in Tarnow and Jaslo, Poland are presented. The attention is paid to intercultural competencies and approaches within an intercultural communication of students as future teachers. The results reveal some specifics and differences in terms of the level of students' approaches to the intercultural values.

Keywords

Intercultural education, communication in an intercultural environment, approaches to intercultural values

New teaching technologies as a tool of increase of success and effectiveness of educational process

Eva Kormaníková – Iveta Hegedüsová

Abstract

The paper describes the necessity of modernization of academic educational process and the actual concept of realization at the Institute of Structural Engineering, Department of Structural Mechanics, Civil Engineering Faculty, Technical University of Košice. This contribution is particular oriented on the subject Elasticity and plasticity.

Keywords

Subject Elasticity and plasticity, modernization, academic educational process

Usage of technical terms in teaching of science subjects

Katarína Kotuláková

Abstract

The study explores specificity of language in science education among students at grade and high school, as well as among not scientifically oriented adults. Taxonomy of the words of science relates to a different demand on students in the process of their adaptation. Natural psychological development of pupils has to be taken into account.

The data were obtained by semi-structured interviews and were analyzed by the grounded theory method. Qualitative analysis showed noticeable discrepancy in usage of technical terms which was misleading as it didn't necessarily correspond with meanings accepted by the scientific community. Understanding of the concept by the speaker and community is therefore questionable. The collected and analyzed material is a contribution to the broader discussion about the quality and meaningfulness of formal schooling and its reflection in the social and personal life of a society.

Keywords

Concept, technical term, science education, science language

The basic matters of didactics of Slovak language

Zuzana Kováčová

Abstract

In the process of reading comprehension the understanding of a text is occurred when the reader is able to create a mental model of the read text. This mental model is an internal work model of that situation which is described in the text in the meaning that the reader understands it. It is possible to say the reader creates a class of mental representation which includes the text basic elements so that it is easily comprehensible or at least simply and more concrete than the text itself.

Keywords

Understanding, semantic coding, phonemic-phonological vocable, contextual keys, warp as a text presupposition

Mechatronics in education of teachers

Gunnar Künzel – Miloslav Linda

Abstract

The article deals with mechatronics – interdisciplinary branch for 21st century. It's a synergic integration of machines with intelligent PC control for design of technological processes and commodity production. New technologies, sensors, actuators and intelligent materials are used in order to reach new dimension of functionality. Applications of mechatronics are also mentioned. Creative design is important for successful mechatronic product. Technical subject's teachers should be acquainted with mechatronical approaches in design, development and construction of mechatronic products of new generation. On the base of analysis of current degree of mechatronic education at Czech and Slovak high schools and universities the project of teachers training is presented. Teachers will be led to accept mechatronics as a fusion of traditional engineering and electrotechnic events, informatics and control. The issue of education and required knowledge balance of mechatronic specialists is expected to be actual for a long time and will be essentially influenced by future progress of techniques as well as demands of production and operation practice.

Keywords

Mechatronics, intelligent materials, sensors, actuators, control, creative design

Interaction between teachers and students in different organizational forms of teaching biology

Andrea Lešková – Katarína Kimáková

Abstract

The paper presents methods for teaching biology of student teachers based on experience and experiential learning with assigning the creative tasks, in which solution is based on reflection and practical application of theoretical knowledge during school practice.

Keywords

Project teaching, active learning, working with plants, animals and minerals, excursions, outings, teacher role

Prevention of problems with addictive substances in the context of teacher training for primary school teachers

Jozef Liba

Abstract

Adverse health and social-pathological parameters indicated by the results of empirical research and everyday experiences highlight – in relation to the role of school education - the need to solve the imbalance between various prevention-focused approaches to the consumption of drugs (alcohol, tobacco) and the efficiency of their implementation. Based on this paradigm the paper justifies the need of structuring a profессиogram of teacher which integrates the health-preventive competence in the complex of teacher competences. Given this background the paper lays emphasis on the primary prevention of drug addiction within the teacher-training curricula designed for future primary school teachers.

Keywords

Health, education to Health primary prevention, competence of teacher

How to teach calculation with percentages?

Elżbieta Łodzińska

Abstract

For more than 4,000 years, i.e. since money was introduced, people have been using the concept of percentage. Although the concept has been known and applied in practice for ages, it still poses a problem to average people who have to deal with percentage computing almost everywhere – in a bank, shop or while paying taxes, etc. This article discusses all indispensable stages of the teaching process leading to the attainment of a goal which is understanding and correct performance by pupils of calculations with percentages. The discussion is supported by concrete examples of tasks illustrating such issues as converting quantities into percentages and percentages into quantities, computing the quantity when the percentage is given, or what percentage one quantity is relative to another quantity. Then, a series of tasks allowing students to master data reading from diagrams presenting percentages is shown. Finally the skills which a pupil should possess to be a given a particular grade are discussed.

Keywords

Accessible teaching, the concept of percentage, technique of performing calculations with percentages, application of percentages

The development of metacognitive processes and strategies of work with text as a cross section topic of departmental didactics

Jaroslava Magulová

Abstract

The subject of this contribution is a question of work with text in a context of educational field (subjects), the education of which requires the presence of texts and their functional use. We proceed from the knowledge that the content of each subject was originated (or should be originated) by a didactic transformation of the content of the relevant disciplinary field, while each of them disposes with not just own objects of investigation, specific ways of investigation, but also with characteristic scientific discourse, which is fixed by texts. From the didactic point of view, it is determined, that education of each subject is determined by different types of texts and correct fulfilment of tasks is provided by strategies of text usage. For that reason, as one of the key problems of departmental didactics, we consider the current development of the ability of conscious strategic work with texts, which is ensured by metacognitive processes and cognition. The contribution provides an analysis and interpretation of the problem with an ambition of suitable argumentation.

Keywords

Strategies of work with texts, metacognitive processes, written speech, departmental didactics, educational content, teaching strategies

Interactive tools using the requirements of modern biology didactics

Jitka Málková

Abstract

The article introduces four electronic interactive textbooks which were published in Pachner český výukový software Praha (Vegetace ČR – Vegetation of Czech Republic; Louky – Meadows) and in Gaudeamus Univerzita Hradec Králové (Léčivé rostliny – Medicinal Plants; Krkonoše a Podkrkonoší – The Giant Mountains). The author implemented her 30-year-old field experience as a university teacher at the University of Hradec Králové. The author does not only teach intending lecturers but also EVVO coordinators or graduants, participates in mapping for NATURA 2000 or works as a botanist and environmentalist (more than 40 didactic and professional projects, including international ones etc.). The aim was to try to support the creative educational process, take the advantage of students' playfulness and their favourite computing. The task was to motivate to study, not only to hand over the pieces of knowledge but also to attract them to identifying organisms, coenosis and natural patterns, to allow them to revise and evaluate. The goal was to enable the students interactive experience learning, interconnection of theory and educational experience, interconnection with practical life, interdisciplinary approach, experiential and scholastic education. Leading computer experts, zoologist and a lot of students who helped with sorting and describing the photographs participated in the textbooks. There are more than ten thousand of the author's photographs in the tools. The majority of them are the photographs of plants and their details, countryside and animals. GIS layers of abiotic factors, enlargement of biotopes, interests, ecological dictionaries, playful test questions (more than four hundred) are also included. The tools are worked out in different professional levels. The effort of the tools is to educate in the intention of Jan Amos Komenský – to do it playfully and by visual demonstration.

Keywords

Education, popularization, modern biology didactics, electronic books

Using WebCT to increase the effectiveness of teaching the subjects about nature and society

Martina Maněnová

Abstract

The study introduces empiric research done at the Pedagogical faculty of University Hradec Králové. The subject of research was finding of e-learning efficiency of the courses in WebCT environment in the course of Didactics of the subjects on nature and society in the study programme teaching profession for primary school. Evaluation of e-learning efficiency was carried out by means of pedagogical experiment both by traditional finding of the differences in an increased knowledge of the students of the experimental and control group and by analysis of self reflection of the reached competences. Operationalization of the competences from the area of didactics of the subjects on nature and society and on its base a new course in WebCT was created for the purpose of pedagogical experiment.

Keywords

Primary education, operationalization of competences, efficiency of e-learning

Psychosocial care problems in Latvia at the time of financial crisis

Romans Manuilovs

Abstract

In March of 2009 Latvian government approved a reform of the social assistance system, which aims to provide development of the health-care systems in limited financial resources environment simultaneously improving the health care system management, optimizing resource acquisition and administration of money resources. The first step on this path is to optimize and reorganize the existing State social care institutions, setting institutions whose future maintenance is economically feasible and in planning social care services according to regional characteristics.

In this article's thesis the author draws big attention to the task of searching new, their implementation, to improve the quality of life of persons with mental illness and their ability to return to society, which is the primary focus on what the author wants to draw attention during the social integration processes of such people.

This article's thesis is about major field of psychosocial issues - how to help people with mental health problems at the time of today's financial crisis, how to perform effective psychosocial rehabilitation process and to improve their quality of life.

Keywords

Day hospital, group of mentally ill patients' relatives, nursing homes for persons with mental disorders

Total capital and youth life strategies: sociological, psychological and pedagogical aspects

Vladimir Menshikov

Abstract

At the end of the 20th century – in the beginning of the 21st century the theory of capital, an enormous contribution to the development of which belongs to P. Bourdieu, has been being used more often. The necessity and possibility of the bolder use the theory of capital in the analysis and estimation of the situation in different spheres of public life is substantiated in the given article. In particular, in the project “Paradigms of Education: Sociological Approach”, which was started in 2008 by the sociologists of the Institute of Social Investigations at Daugavpils University, a significant part was assigned to the theory of capital. It is aimed at finding out how different factors of capital influence life strategies of the young and which paradigm of education meets the challenges of the 21st century. The objective of investigation is to overcome the fragmentariness of the use of the theory of capital. In order to achieve the objective, an extensive classification of the types of capital has been worked out; the indicators of their measuring have been introduced. As to the novelties of the given investigation, they are as follows: determining the volume of total capital and of its separate types, the age specificity of real and desirable resources and their use realizing life strategies, the basic factors that determine the total capital of a personality and the dynamics of its structure in different age groups of the young present. On the whole, the empirical data have proved the hypothesis: the volume of capital of a personality depends on the level of education, the level of income and the chosen life strategy. The increase of total capital may be found in all three age groups of the young aimed at the strategy of success.

Keywords

Resource, capital, total capital, the young, life strategy

Utilization of plastinate as novel 3D aid for teaching practice of prospective biology

Mária Miklošová – Katarína Kimáková

Abstract

Teaching practice of prospective teachers is rightly considered mandatory and essential form of university education. It forms a bridge between pedagogical theory and teaching practice and it is a valuable source of pedagogical knowledge.

Teaching experience helps to develop adept's professional skills and imparts positive relationship towards children, youth and teaching profession in general.

The institution which capacitates the future teachers is responsible for the evaluation of the issue from both didactic and methodologic point of view.

This work addresses the use of plastinates as an innovative way to enhance the quality and effectiveness of biology lessons in grammar schools. Moreover, using plastinates during the training of prospective biology teachers increases their proficiency in the field of natural sciences.

Specimens created by plastination are new to students and can make their lessons more interesting. They also present the curriculum in a graphical way.

Plastinated specimens are superior to schematic models and pictures due to the preservation of physiological shapes and details. They help students to develop creative thinking, establish and expand information gained during lessons.

Keywords

Plastinated specimens, teacher, teaching practice, biology

Development of teachers' intercultural competence at primary school

Pavína Nakládalová

Abstract

The paper presents intercultural competence as an essential part of the teacher's key competence. It deals with resources and possibilities of learning and development of intercultural competence and their implementation to practice.

Keywords

Intercultural competence, professional core competence of the teacher, intercultural education, intercultural communication, multicultural education, inclusive education

Students project activities – project of amateur space satellite

Jan Novotný – Jaroslav Zukerstein

Abstract

The paper deals with the involvement of students FVTM UJEP in space research - project design of “nanosatellite” CUBESat, which will be released into orbit. This project is being implemented at the Department of Applied disciplines of the Faculty of Production Technology and Management University J. E. Purkyně. On this unique project space research are participating students of study field teaching of technical subjects, through their theses.

Keywords

Space research, amateur satellite, teaching project, technical education

Interactive activities from physics as a way to develop key skills

Ľudmila Onderová

Abstract

The paper presents the goals and the first results of a project whose aim is to help basic-school pupils discover the essence and the beauty of the scientific research via interactive activities. Through individual activities for pupils oriented on active learning, i.e. learning via discovering, learning from experience and creation of their own projects we want to develop their motivation, natural-science literacy and a positive attitude towards a future scientific career.

Keywords

Physics teaching, active learning, key skills

Application of experiential education elements into educational activities of a class teacher and their implementation into pregradual preparation of teacher training study

Renáta Orosová – Ján Bajtoš

Abstract

The authors present the theoretical basis of experiential education and its application in terms of our educational system, provides an insight into the possibilities of linking theory and practice of educational action of a class teacher within a classroom lesson and outside a classroom through the elements of experiential education. Carrying out the experiential education courses contributes to an increasing of the efficiency in pregradual preparation of students under education programs at UPJŠ, to whom is offered an opportunity to work directly with elementary school pupils and their class teachers.

Keywords

Class teacher, experiential education, pregradual preparation of students

Didactics and present days

Erich Petlák

Abstract

Author deals with some views at didactics and its' functions in nowadays. The starting point is the recent changes in pedagogical disciplines and their influence on didactics. The contribution shows that didactics is not changing so rapidly like the other pedagogical disciplines. The accent is put on the areas that should be studied more precisely not only in the content but also from the aspect of the research and the teachers' pedagogical-didactical preparation. Author shows that on the one side there are many scientific works and reports but on the other side just the little influence can be seen on the real educational practice.

Keywords

Paradigm, didactics, didactics and nowadays, quantitative research, qualitative research, teachers' preparation, teacher – evaluator, methodologist, innovator, researcher

The opportunities of the creative teaching in current schools

Janka Poráčová

Abstract

The article focuses on the creativity and the need of its development since the creativity should have an irreplaceable role in the life of each student in current creative – humanistic school. We concentrate on the possibility of development of creativity of students through creative teaching process. We also specify some of the methods and strategies that promote creative teaching process. The aim of the article is to emphasize the importance and the need of development of creativity of students as well as to highlight the opportunities of the development of creativity in education process.

Keywords

Creativity, freedom, creative – humanistic education and learning, methods of development of creativity, creative teacher, creative student

Conceptions of elementary mathematics concepts in the context of undergraduate training of elementary school teachers

Alena Prídavková

Abstract

Conceptions of mathematical concepts are created in the minds of students already in the early school age.

Teacher of elementary school should be able to apply task of propedeutics character which is progressively made available to students in higher level of education. The basis for development of didactical mathematical competence of teachers is created comprehensive system expertise, which is a prerequisite for their interpretation into learning process.

The article presents a proposal of didactic transformation of elementary concepts algebra related to binary relations, which are interpreted directly in teaching mathematics at elementary school.

Keywords

Mathematical concept, elementary school, binary relation

Sex education in theory and practice of undergraduate teacher training

Miluše Rašková

Abstract

In this paper we present a basis for implementation of sex education into a system of subject didactics in teaching at universities in the fields of teaching in nursery schools and teacher training for the 1st Primary schools. In connection with the lack of knowledge and teaching preparedness for future teachers to sex education, which the results of our research highlighted, we present an overview of innovation, which contributed to the improvement of preparedness of teachers to sex education while studying at the Pedagogical Faculty of Palacky University in Olomouc.

Keywords

Sex education, teacher preparedness, separate discipline of study, other teacher training, manual, proposals to improve sex education

Development of professional competences of future technical education for teachers of didactics subjects in master degree

Ladislav Reitmayer – Josef Procházka – Eva Battistová – Viktor Fuglík

Abstract

The paper discusses the project focused on the substantive and the procedural innovation of teaching five consecutive subjects assurance component of teachers teaching in the master's program specialization, and technical information education at the Faculty of Education, Charles University in Prague. Courses are at the core axis of teacher education in the field of master study for developing the industry of professional competencies. They emphasize the concept of domination by contemporary methods of promoting effective and critical information work, the development of various forms of communication, inducing a constructive, creative climate, development cooperation and participation. Students then during training in relation to the development of professional competencies and innovated within these subjects gradually control the didactic and technical information education and methodological approaches needed for creative and effective approach to teaching.

Keywords

Professional competence, technical education, didactics, education

Specifics of chemistry education at non-chemical vocational school

Martin Rusek – Pavel Beneš – Martin Adamec

Abstract

This paper represents a study aimed for Chemistry education at non-chemical vocational schools. There have been several changes in progress in consequence of educational reform in the Czech Republic. Therefore, there are presented results of several analyses and probes accomplished in order to receive more accurate image of the education reality in vocational schools. Motivational items are considered one of possible solutions of the situation. Whereas school experiments are being classed among motivational items, there is an emphasis to implementation of school experiments into education given in this paper.

Keywords

Curricular reform, didactics of chemistry, vocational schools, motivational items, school experiment, visualization, analysis of framework educational programme

Pregradual preparation of teachers for education of gifted student

Anton Šabo

Abstract

Pregradual studies of teachers are one of the bases on which will the teacher build his career and further develop him in the future. Because of this author focuses himself on pregradual preparation of teachers on role of gifted students' educators. Author deals with competences and personal characteristics which the future teacher of the gifted children has to dispose with. Furthermore author describes the way how are future teachers qualified to work with gifted students prepared on Constantine the Philosopher University in Nitra.

Keywords

Teacher, pregradual preparation of teacher, gifted student, education of gifted students

The use of teaching methods and tools for teaching philosophy in relation to the learning styles

Gabriela Šarníková – Peter Tavel

Abstract

The current reform in education in Slovakia, as well as the global trends, emphasizes the change in approach to education. The paper justifies the use of different methods and tools of teaching philosophy as a part of teaching Civics in high school, depending on what type of learning style prevails. The work shows examples of refreshing and motivational elements, the method of discussion by M. Lipman - the founder of philosophy for children as well as some modern didactic methods of teaching. Given the goals of philosophy as a science and the key competencies of philosophy we are looking for the intersections of traditional and innovative goals, which follow not only intellectual but also the overall development of students.

Keywords

Learning styles, motivation, goals of philosophy, philosophy for children, critical, creative and “engaged” thinking

Determinants of innovations in undergraduate mathematical training of elementary teachers

Iveta Scholtzová

Abstract

Undergraduate teacher training for primary education must necessarily respect the process of change of the current school. The results of measurements of international TIMSS (Trends in International Mathematics and Science Study) and PISA (Programme for International Student Assessment) shows the average or even below the average, performance of the Slovak students in mathematics or mathematical literacy compared with OECD countries and partner countries. Both of these factors can be seen as the basis for innovation undergraduate mathematical training of teacher in elementary school.

Keywords

Undergraduate training, elementary teacher, mathematical education

Application qualitative research in undergraduate training teacher

Katarína Šmajdová Búšová

Abstract

The paper is to describe the possibilities of using different methods qualitative research in terms of school. We describe the basic theoretical background and case study examples of applications, applied in the pre-service teacher training to Bachelor's degree UPJŠ FF, in order to offer students an insight into school issues from different perspectives.

Keywords

Qualitative research, case study, undergraduate teacher education

Role of on-line contests in developing informatics and mathematical talents

Ľubomír Šnajder – Ján Guniš

Abstract

In the paper we present a brief overview of informatics and mathematical attendance, correspondence and online contests in Slovakia. The next section describes our online contest PALMA junior, its objectives, progress, technological solutions used, way of tasks creation, assessment of student solutions, and creation of commentaries. A way of covering the cognitive and affective objectives is illustrated on the text of one contest problem. It is described how the contest develops pupils' individual key competencies. Besides obvious benefits of contest for the participants, this contest has an important place in the training of future teachers of Informatics at the faculty, as some of them are involved in the preparation and correction of contest problems. In the frame of the contest we realize qualitative research regarding pupils' misconception in algorithmic problems solving.

Keywords

On-line contest, programming, informatics, mathematics, talent development, informal education

Microteaching in pre-service informatics teachers training

Lubomír Šnajder

Abstract

In the paper we describe the experience of the use of microteaching in pre-service informatics teachers training at the Faculty of Science P. J. Šafárik University in Košice. In the frame of teaching of subject Didactics of informatics we realized microteaching focused mainly on the use of activating teaching methods. Microteaching of pre-service informatics teachers we recorded as a video, which we used in microeducational analysis. At the end of the article we provide recommendations for the use of microteaching in conjunction with video technology in pre-service informatics teachers training.

Keywords

Microteaching, pre-service informatics teachers training, video recordings, teacher competencies

Usage of the theory to prepare language tests to raise their quality

Jaroslava Štefková

Abstract

The paper deals with developing the pedagogical skill of evaluation, in particular testing. The ability of a teacher to prepare and assess tests is one of the important pedagogical skills. The research part is related to the behaviour of open and closed tasks namely their difficultness and the discrimination power of test items. Both types of tasks have their functionality and place in tests. We used three achievement tests at B2 level of CEFR for the research purposes. We found out that open tasks are more difficult than closed tasks. Closed tasks have better discrimination ability. Test creators, i.e. teachers are advised to create test by combination of closed and open tasks. Understanding of the relationships between test formats and its use in the pedagogical process helps teachers to improve their work.

Keywords

Pedagogical skills, evaluation, item difficultness, discrimination index

Teacher – an active factor in the teacher-pupil interaction process – the reform idea or the real status in the Czech school

Dominika Stolinská

Abstract

The paper presents the particular issues of the empirical part of the doctoral thesis in the field about teacher-pupil interaction. On the strength of Bellack's interaction analysis it evaluates the advance of this interaction and compares it with the idea about the transformation process of the Czech school. It is noting the one of the determinant, which influences the teacher-pupil interaction - the teaching style. Its influence is plotted on the strength of the Pelikan's teacher study. The outputs predicate about the character and the process of teacher-pupil interaction at primary school. They are focused on teacher - which is his role in this interaction, which influence has the teacher style on it... Contra it predicates about pupil's activity. About the final outputs of the doctoral thesis displayed interest the Department of primary pedagogy of the Pedagogical faculty of Palacky University in Olomouc, which wants to use it in the pre-gradual prepare of teacher in the order to make it better with the spirit of the curricular reform in the Czech Republic.

Keywords

Teacher, pupil, teacher-pupil interaction, teaching style, primary school, transformation process, research

On the question of gender (not only in The czech language methodology)

Eva Stránská

Abstract

The paper called "On the question of gender (not only in the Czech language methodology)" is focused on very actual question of gender and gender linguistics. It tries to evaluate the advantages and disadvantages of gender within the Framework Educational Programme for Basic Education and within the education of linguistic subject field. The results of research among teachers of lower-secondary school are added. The paper analyses and interprets the results.

Keywords

Gender, gender linguistics, Framework Educational Programme for Basic Education (FEP), School Educational Programme (SEP), teacher, pupil

The conception of didactic training and the creativity of chemistry teachers at Charles University in Prague, Faculty of Science

Renata Šulcová

Abstract

For the successful achievement of the educational programmes approved by the European Union and set in the curriculum of the Czech Republic is essential to educate teachers who are able to teach their students important skills and competencies on the topical knowledge base. The situation is illustrated by the example of chemistry teachers' didactic training at Charles University in Prague, Faculty of Science. The practice in pedagogy and psychology serves with didactics of chemistry, pedagogical practice and facultative special courses for teachers training during graduate study. Special importance for students takes their own creative work, including the application of modern alternative educational methods and the creation of new multimedia tools for chemical education. The creative activities are essential for teachers in an appropriate choice of the subject matter and solving the science problems in chemistry, both in the preparing study materials, tools and ideas for theoretical problems as well as for practical work. Nowadays we have verified educational projects and created many products such as electronic presentation of interdisciplinary topics, multimedia resources, educational tests, quizzes with chemistry motives, chemical games and innovated experiments for development of the key competencies and own pupils' activities.

Keywords

Framework Educational Programmes, key competencies, didactic training of chemistry teachers, development of creativity and activities, modern educational materials

The development of didactic competences in pedagogical preparation of teachers

Valentína Šuťáková - Janka Ferencová

Abstract

In our contribution we target the problem of didactic competences of teacher and possibilities of their development in pedagogical preparation of teachers. We defined occupative competences and some of the models of occupative competences of teachers. The didactic competences are one of the most important occupative competences of the teacher. We try to define them and we appeared from the project of occupative standards for beginning teachers. The structure of these competences in the project was the startpoint for our research, which we realized with 200 students of pedagogy at Presov University. The results and practical references are the part of the contribution.

Keywords

Occupative competences of the teacher, didactic competences, occupative standards

Motivation to seek information

Henrieta Šuteková – Bronislava Jakubíková

Abstract

This article is conceived as a theoretical-practical study of motivation to seek information. The authors focus on the theoretical definition of motivation issues, with emphasis on defining the term information need. The article is supplemented with results of various studies focused on information behaviour.

Keywords

Motivation, needs, information needs, information retrieval

Bridging didactic theory of schooling with its practice

Štefan Švec

Abstract

The study firstly tries to explain possible interpretations and understanding of "integration of theory and practice". It indicates how the methodology was reflected and practiced in the history of epistemological-methodological discourse about its substance? The study defines relations of teaching theory and teaching practice (P & T) in the context of their innovation. In more details are discussed neglected issues of theory and practice in planning of a target program (curriculum). Briefly are defined domain-created components of education as fields of theory and practice. Finally, the study provides suggestions for bridging the gap between theory and practice and examples of their links.

Keywords

Integration, theory and practice, didactic, department of professional teacher work, department of teaching study, department of teaching science (subject and vocational didactics, general didactics)

Educational robotics in the context of pedagogical constructivism

Daniel Tocháček – Jakub Lapeš

Abstract

The paper is aimed in the use of modern technological resources and innovative approaches to training in teaching practice and preparation the future teachers of technical, technological and sciences. It discusses the upcoming project focused on program modifications of the preparation of future teachers oriented to the implementation of educational robotics and constructivist approaches.

Keywords

Education, robotics, ICT, constructivism

Science education of elementary school teachers – physical view

Blanka Tomková

Abstract

At present, the science literacy is very important issue. Acquiring knowledge in science is the quality of the precepts. The issue of elementary school teachers training therefore an important factor in the development of scientific knowledge.

Keywords

Science education, elementary school teacher, precepts of physics

Student's brain in the focus of modern school

Jana Trníková

Abstract

Our focus is on the novelty of the teaching based on the knowledge of brain power and its functions termed also as brain-based learning, gradually becoming acknowledged also by Slovak teachers. Brain-based learning results from the knowledge of several branches of science and attempts at implementing them into the conditions of the present educational process and support thus not only the creativity during school lessons but also the elimination of fear and stress of students, the use of various teaching methods, and the contribution to an effective educational process, deepened knowledge, and long-lasting recollection of facts and the curriculum by students. On the basis of brain-based learning and teaching principles, we introduce this new trend in educational practice which does not have only a theoretical basis, but its main goal is to influence direct pedagogical work of teachers.

Keywords

Brain, innovations, brain – based learning

Personal line of science teaching in a context of constructivist didactics

Marian Trnka

Abstract

The paper deals with analyze of personal line of science teaching. The author defines a base of personal teaching in constructivist model of teaching and learning. Through describing of triplicate space of interpretation of nature concept he defines and holds forth on didactic attributes of child science, which is understood as a main attribute of personal line of science teaching. He points out two possible views on process of child science and he defines structure of this term in the meaning of expected result of pupil's scientific observation.

Keywords

Constructivism, personal constructivism, nature, science teaching, child science, conceptual change, cognitive mediation, meta-cognitive mediation, science literacy

Pre-graduate education of future teachers in the context of special pedagogy and the options for intervention

Tomáš Turzák – Renáta Polakovičová

Abstract

The differences are becoming a common part of everyday educational reality and educational process. Every future teacher can face to a requirement to teach in a class with integrated children. During a pre-graduate education has every student to become aware of specific aspects of this work. Students have to realize what are their special skills and competencies for this occupation. In the study authors deal with pre-graduate education of future teachers. They introduce partial results of research which has been realized in 2009 at Constantine the Philosopher University in Nitra, Faculty of Education, Department of Education.

Keywords

Pre-graduate education of future teachers, school integration, special skills, personal competencies, intervention

Improving the interaction of teacher-student through a selected group of didactic styles

Zdenka Uherová

Abstract

Nowadays there are the efforts to change the direct dominating management of teaching activities and one-way communication from teacher to student. Each teacher has a particular didactic style, regardless of whether he knows it or not. Individual styles vary in how much decision-making activities the teacher left and how many delegates per student. Changes in the teacher's actions can affect the activity, interests and attitudes of students. In a didactic interaction the student should be seen as teacher's partner with respect to his particularities and individual capacities. By means of the teaching experiment - using reciprocal style, style of self-assessment, offering and in managing discovery, we have tried to increase students' confidence in their own strength and skills to improve interaction and communication between teachers and students to enhance students' responsibility for their actions, autonomy, self-knowledge and self-evaluation.

Keywords

Teacher-student interaction, didactic styles, teaching

Investment in human capital in Central and Eastern Europe

Eduards Vanags

Abstract

The term “human capital” in the modern neoclassical economic literature appears in Jacob Mincer’s, a father’s of modern labor economics, article “Investment in Human Capital and Personal Income Distribution” in The Journal of Political Economy in 1958. Then the idea of human capital was developed by American economists Gary Theodor Schultz and Gary Becker. Gary Becker’s book “Human Capital”, published in 1964, became a standard reference for many years. In his opinion, human capital is similar to “physical means of production” like factories and machines. According to Becker, an additional investment in human capital (education, training, medical treatment) leads to additional output. Scientific world highly evaluated an importance of the theory of human capital for world’s economy and science. Two Nobel Prizes have been granted to T. Schultz (in 1979) and G. Becker (in 1992) for their outstanding contribution in a modern economic theory. Simon Kuznec, Robert Soloy, Solomon Fabricant and other famous economists, sociologists and historians played an important role in the development of modern theory of human capital. Early economic theories defined the term “human capital” simply as workforce, one of three factors of production, and consider it to be homogenous and easily interchangeable. In contrast, modern economists refer “human capital” as the stock of competencies, knowledge and personality attributes embodied in the ability to perform labour force so as to produce economic value. Mentioned attributes can be gained by an employee (worker) through education and experience.

Keywords

Human capital, the European Human Capital Index, human capital endowment

Method of organic synergy as an innovative step in the teaching of applied ethics

Ľubov Vladyková

Abstract

Facing current biosphere problems referred to as ecological crisis, academia conceptually and practically confronts the fragmentation: ecologists treat the nature with aim to understand it, while moral-philosophical approach is motivated by thesis- how to inhabit our nature. The ecology is looking in the nature for 'what is', while moral-philosophical thesis for nature is focused on 'what should be'.

There is a third area – giving access to 'what is' and 'what should be': educational practice. The most fundamental issues – questions in this area which we have to answer are: Whom do we teach? What do we teach? Why do we teach it? How do we teach? Answers may reveal basic approaches to didactical transformation of sub-disciplines of applied ethics (further DTSAE). How to bridge these still largely separate and yet parallel directions? How to connect ecological 'what is' with eco-ethical 'what should be' and educational 'what, why and how we teach'? How to re-establish ties between the cognitive – scientific, practical – philosophical and educational area?

In the centre of organic synergy constructed by ourselves are not the “facts“ (in terms of both interdisciplinary” and “moral – philosophical” factography) which are presented to the wards /in our case students / only indirectly, but are the ways how these facts get adopted; i.e. how to understand the world instead of memorizing the results of knowledge; how to understand the context and the complexity of perception of the world and a human in it by self reflection... instead of a mechanical acceptance of reflections, attitudes, opinions, etc. (expressed, analyzed, etc. by someone else).

The most fundamental questions which we must answer are: Whom do we teach? What do we teach? Why do we teach? How do we teach? Answers may reveal basic approaches to didactical transformation of sub- disciplines of applied ethics (further DTSAE).

Keywords

Organic synergy, applied ethics, didactical transformation

The opportunities of development of core competences of students using innovative methods in teaching process

Mária Zahatňanská

Abstract

In the article we focus on the competences of students and some of the innovative methods with the aim to show the possibilities and the significance of their application in teaching process as well as to demonstrate that through the game and project learning we may develop students' competences, positive emotions and attitudes toward learning. We also reveal the opportunities of comprehensive development of personality in the spirit of humanistic education.

Keywords

Core competences, innovative methods, innovative school, project learning

The man is said to be the measure of all things...

Ján Zelem

Abstract

The article presents some results of a survey on quality of digital literacy in Slovakia. The quality is partially achieved by means of e-learning. The article is focused on the irreplaceable role of the university teachers in the e-learning process and briefly analyses its motivation factors in the prism of accreditation criteria and financial rewards.

Keywords

Digital literacy, e-learning, accreditation criteria, salary requirements

Comparison of the framework Educational programme for pre-school education in the Czech republic with pre-school curriculum in Slovakia

Iva Zowadová

Abstract

The contribution gives information about the curriculum for nursery school in the Czech Republic and Slovakia. In the Czech Republic it is the Framework Educational Programme for pre-school education and in Slovakia it is the State Framework Educational Programme ISCED 0 – pre-school education.

In the article the author tried to compare these two curricula documents with a focus on core competencies with emphasis on the social core competencies and expected effects. The article responds to current needs related to verification of pre-school curriculum. More evidence needed to determine whether a set of competencies and effects of pre-school curriculum correspond to the possibilities of today's children, whether they are set in the context of the needs of contemporary society.

Keywords

Framework Educational Programme for pre-school education, State Framework Educational Programme ISCED 0 – pre-school education, curriculum, core competencies, education, educational field, child of pre-school age

Students project activities – wood decorative techniques

Jaroslav Zukerstein – Jan Novotný

Abstract

The paper deals with the project work activities of students FVTM UJEP in sphere of timber ornamental techniques. There is a problem out of wood utilization techniques in the preparation of students of study field teaching of technical subjects in optimal course. Introduces the basic principles of certain technologies and presents the outcomes of projects within the optional course.

Keywords

Project work, woodcraft techniques, technical education