

Kazimierz Wielki University in Bydgoszcz
Ukrainian Scientific Research Institute of Transport Medicine in Odesa
Nicolaus Copernicus University in Toruń
Matej Bel University in Banska Bystrica
University in Debrecen
National University Physical Education and Sport in Kijev
National Physical Culture University in Lviv
Radom University in Radom

ISSN 2391-8306

Formerly ISSN 1429-9623 / 2300-665X

Journal of Education, Health and Sport

formerly Journal of Health Sciences

<http://ojs.ukw.edu.pl/index.php/johs/index>

formerly www.journal.rsw.edu.pl

<https://pbn.nauka.gov.pl/search?search&searchCategory=WORK&filter.inJournal=49068>

<https://pbn.nauka.gov.pl/search?search&searchCategory=WORK&filter.inJournal=36616>

<http://elibrary.ru/contents.asp?titleid=37467>

Open Access

Vol 9 No 9 2019

The journal has had 5 points in Ministry of Science and Higher Education parametric evaluation. § 8. 2) and § 12. 1. 2) 22.02.2019.

Indexed in Index Copernicus Journals Master List. ICV 2016: 84,69; ICV 2015: 93,34 IC Value 2014: 89,51 Standardized Value: 8,27
<http://jml2012.indexcopernicus.com/Journal-of+Education+Health-and+Sport,p24782242,3.html>

Universal Impact Factor 1,78 for year 2012. (<http://www.uifactor.org/AppliedJournals.aspx>)

Indexed in Polish Scholarly Bibliography (PBN) (PBN Polska Bibliografia Naukowa) (<https://pbn.nauka.gov.pl/journals/36616>)
is a portal of the Polish Ministry of Science and Higher Education,

collecting information on publications of Polish scientists and on Polish and foreign scholarly journals.

Polish Scholarly Bibliography is a part of POL-on - System of Information on Higher Education.

It is operated by the Interdisciplinary Centre for Mathematical and Computational Modelling, University of Warsaw.

Indexed in **Russian Sciences Index** Российский индекс научного цитирования (РИНЦ) <http://elibrary.ru/contents.asp?titleid=37467>

Indexed in **Arianta** Polish scientific and professional electronic journals **Aneta Drabek i Arkadiusz Pulikowski** <http://www.arianta.pl>



Scientific Council

prof. zw. dr hab. geo. Z. Babiński (Poland), prof. zw. dr hab. med. T. Chumachenko (Ukraine), prof. zw. dr hab. techn. R. Cichon (Poland), prof. zw. dr hab med. N. Dragomiretskaya (Ukraine),
prof. zw. dr hab. med. V. Ezhov (Ukraine), prof. zw. dr hab. geo. J. Falkowski (Poland), prof. zw. dr hab. med. A. Gozhenko (Ukraine), prof. zw. dr hab. geo. M. Grodzynski (Ukraine),
prof. zw. dr hab. I. Grygus (Ukraine), prof. zw. dr hab. med. A. Gudyma (Ukraine), prof. zw. dr hab. med. S. Gulyar (Ukraine), prof. zw. dr hab. med. W. Hagner (Poland), prof. dr hab. M. Hagner-Derengowska (Poland),
prof. zw. dr hab. med. I. Karwat (Poland), prof. zw. dr hab. med. M. Kryvlyuk (Ukraine), prof. zw. dr hab. geo. A. Melnik (Ukraine), prof. zw. dr hab. med. V. Mizin (Ukraine),
prof. zw. dr hab. med. B. Nasibullin (Ukraine), prof. zw. dr hab. geo. O. Obodovskyi (Ukraine), prof. zw. dr hab. med. L. Shafran (Ukraine), prof. zw. dr hab. med. I. Shmakova (Ukraine),
prof. dr hab. med. A. Avramenko, doc. PaedDr. Elena Bendíková, PhD. (Slovakia), prof. dr hab. K. Buško (Poland), dr hab. med. E. Goženčko (Ukraine), prof. dr hab. R. Muszkieta (Poland),
prof. dr hab. med. W. Myśliński (Poland), prof. dr hab. M. Napierała (Poland), prof. dr hab. M. Pastuszko (Poland), prof. dr hab. K. Prusik (Poland), prof. dr hab. M. Zasada (Poland), prof. dr hab. W. Zukow (Poland),
dr med. L. Butska (Ukraine), dr I. M. Batyk (Poland), dr M. Cieślicka (Poland), dr med. M. Charzynska-Gula (Poland), doc. dr n. med. V. Cherny (Ukraine), dr med. K. Cywinski (Poland),
dr med. U. Kazmierczak (Poland), dr med. K. Kiczuk (Poland), dr A. Kostencka (Poland), dr med. Z. Kwasniak (Poland), dr med. E. Mikolajewska (Poland), dr D. Mikolajewski (Poland),
dr med. B. Muszynska (Poland), dr med. A. Nalazek (Poland), dr med. N. Novikov (Ukraine), dr med. K. Nowacki (Poland), dr M. Podhorecka (Poland), dr med. G. Polak (Poland), dr med. P. Prokopczyk (Poland),
dr med. A. Radziminska (Poland), dr med. L. Sierpinska (Poland), dr Daves Singh (Republic of India), doc. dr A. Skalny (Ukraine), dr T. Skalny (Ukraine),
dr B. Stankiewicz (Poland), dr med. E. Treła (Poland)

Editorial Board

Stefan Adamcak (Slovakia), Pavol Bartik (Slovakia), Elena Bendíková (Czech Republic), Janusz Bielski (Poland), Krzysztof Busko (Poland), Mirosława Cieślicka (Poland), Jerzy Eksterowicz (Poland), Włodzimierz Erdmann (Poland),
Tomasz Frolowicz (Poland), Attila Gilányi (Hungary), Igor Grygus (Ukraine), Halina Gula-Kubiszewska (Poland), Paweł Izdebski (Poland), Serhij Iermakow (Ukraine), Tetiana Iermakova (Ukraine), Jana Jurikova (Czech Republic),
Vlastimil Karaskova (Czech Republic), Jacek Klawe (Poland), Mariusz Klimczyk (Poland), Alicja Kostencka (Poland), František Langer (Czech Republic), Eliegiusz Madejski (Poland), Jiri Michal (Slovakia), Ludmila Miklankova
(Czech Republic), Emilia Mikolajewska (Poland), Viktor Mishchenko (Ukraine), Stanisław Moczek (Poland), Mirosław Mrózkiowski (Poland), Radosław Muszkieta (Poland), Anna Nalazek (Poland), Marek Napierała (Poland),
Jerzy Nowocień (Poland), Piotr Oleśniewicz (Poland), Władysław Pańczyk (Poland), Wiesława Pilewska (Poland), Mirosława Pridalowa (Czech Republic), Krzysztof Prusik (Poland), Krzysztof Sas-Nawojski (Poland), Aleksandr Skalny
(Ukraine), Tetiana Skalny (Ukraine), Ewa Sokolowska (Poland), Blażej Stankiewicz (Poland), Robert Stepiak (Poland), Aleksander Stuła (Poland), Naoko Suzuki (Japan), Mirosława Szark-Eckardt (Poland), Maciej Świątkowski
(Poland), Hryhoriy Tereschuk (Ukraine), Hryhoriy Vasjanowicz (Ukraine), Mariusz Zasada (Poland), Wałery Żukow (Poland), Hanna Zukowska (Poland)

Advisory Board

Zygmunt Babiński (Poland), Yuriy Briskin (Ukraine), László Csernoch (Hungary), Kazimierz Denek (Poland), Mirosław Dutchak (Ukraine), Karol Gorner (Slovakia), Kazimierz Kochanowicz (Poland), Jerzy Kosiewicz (Poland),
Stanisław Kowalić (Poland), Tadeusz Masiczak (Poland), Mikołaj Nosko (Ukraine), Jerzy Pośpiech (Poland), Eugeniusz Prystupa (Ukraine), Robert Szeklika (Poland), Jitka Ulrichová (Czech Republic).

Reviewers:

prof. zw. dr hab. geo. Z. Babiński (Poland), doc. PaedDr. Eleni Bendíková, PhD. (Slovakia), prof. zw. dr hab. med. T. Chumachenko (Ukraine), prof. zw. dr hab. techn. R. Cichon (Poland),
prof. zw. dr hab. med. N. Dragomiretskaya (Ukraine), prof. zw. dr hab. med. V. Ezhov (Ukraine), prof. zw. dr hab. geo. J. Falkowski (Poland), prof. zw. dr hab. med. A. Gozhenko (Ukraine),
prof. zw. dr hab. geo. M. Grodzynski (Ukraine), prof. zw. I. Grygus (Ukraine), prof. zw. dr hab. med. A. Gudyma (Ukraine), prof. zw. dr hab. med. S. Gulyar (Ukraine), prof. zw. dr hab. med. W. Hagner (Poland),
prof. zw. dr hab. med. I. Karwat (Poland), prof. zw. dr hab. med. M. Kryvlyuk (Ukraine), prof. zw. dr hab. med. Y. Limansky (Ukraine), prof. zw. dr hab. geo. A. Melnik (Ukraine), prof. zw. dr hab. med. V. Mizin (Ukraine),
prof. zw. dr hab. med. B. Nasibullin (Ukraine), prof. zw. dr hab. geo. O. Obodovskyi (Ukraine), prof. zw. dr hab. med. L. Shafran (Ukraine), prof. zw. dr hab. med. I. Shmakova (Ukraine),
prof. dr hab. med. A. Avramenko, prof. dr hab. K. Buško (Poland), dr hab. med. E. Goženčko (Ukraine), prof. dr hab. K. Knapič (Poland), prof. zw. dr hab. geo. A. Melník (Ukraine),
prof. dr hab. B. Muszkieta (Poland), prof. dr hab. med. W. Myśliński (Poland), prof. dr hab. M. Napierała (Poland), prof. dr hab. M. Pastuszko (Poland), prof. dr hab. K. Prusik (Poland),
dr med. I. M. Batyk (Poland), dr med. L. Butska (Ukraine), doc. dr n. med. V. Cherny (Ukraine), dr med. I. Czerwinska Pawlik (Poland), dr biol. S. Dolomatov (Ukraine), dr A. Kostencka (Poland),
dr med. N. Novikov (Ukraine), dr M. Podhorecka (Poland), dr med. A. Radziminska (Poland), doc. dr A. Skalny (Ukraine), dr B. Stankiewicz (Poland), dr med. E. Treła (Poland)

E d i t o r s - i n - C h i e f

Anatoliy Gozhenko

Marek Napierała

Walery Zukow

C o - e d i t o r s

A s s o c i a t e E d i t o r s

Iwona Czerwinska Pawlik

Mariusz Klimczyk

Mirosława Cieślicka

Adam Szulc

S e c r e t a r y

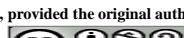
Bartłomiej Niespodziński

© The Author(s) 2019.

This articles is published with Open Access at Journal of Education, Health and Sport formerly Journal of Health Sciences

of Kazimierz Wielki University in Bydgoszcz, Poland

Open Access This articles is distributed under the terms of the Creative Commons Attribution Noncommercial License which permits any noncommercial use, distribution, and reproduction in any medium, provided the original author(s) and source are credited.



Attribution — You must attribute the work in the manner specified by the author or licensor (but not in any way that suggests that they endorse you or your use of the work).

Noncommercial — You may not use this work for commercial purposes. Share Alike — If you alter, transform, or build upon this work, you may distribute the resulting work only under the same or similar license to this one.

Declaration on the original version. Because of the parallel version of the magazine publishing traditional (paper) and of electronic (online), Editors indicates that the main version of the magazine is to issue a "paper"

Zawartość tegoż czasopisma jest objęta licencją Creative Commons Uznanie autorstwa-Użycie niekomercyjne-Na tych samych warunkach 3.0

Editorial Office

Institut Kultury Fizycznej Uniwersytet Kazimierza Wielkiego w Bydgoszczy

85-091 Bydgoszcz ul. Sportowa 2 Tel. +48 523231706 www.ukw.edu.pl

Copyright by Instytut Kultury Fizycznej UKW w Bydgoszczy

ISSN 2391-8306

Formerly ISSN:1429-9623 / 2300-665X

Content:

Introduction 010-010

Ciechański Erwin, Ciechański Krystian, Ciechańska Magda. Cryoablation vs Radiofrequency Ablation in Atrial Fibrillation: Results of the latest trials. Journal of Education, Health and Sport. 2019;9(9):11-14. eISSN 2391-8306. DOI <http://dx.doi.org/10.5281/zenodo.3372249>
<http://ojs.ukw.edu.pl/index.php/johs/article/view/7280>

Kos Michał, Drankowska Justyna, Kościuk Andrzej, Widlak Karolina, Tchórz Michał. The case series of baclofen intoxication. Journal of Education, Health and Sport. 2019;9(9):15-19. eISSN 2391-8306. DOI <http://dx.doi.org/10.5281/zenodo.3372268>
<http://ojs.ukw.edu.pl/index.php/johs/article/view/7281>

Kościuk Andrzej, Kos Michał, Drankowska Justyna, Kaleta Marcelina, Marzeda Paweł, Tchórz Michał. New psychoactive substances abuse and its clinical consequences - the case report. Journal of Education, Health and Sport. 2019;9(9):20-26. eISSN 2391-8306. DOI <http://dx.doi.org/10.5281/zenodo.3372284>
<http://ojs.ukw.edu.pl/index.php/johs/article/view/7282>

Trawka Paulina, Paszkowska Aleksandra, Lamch Magdalena, Wijata Aleksandra, Hejnosz Paweł, Graczykowska Karolina, Jabłońska Magdalena, Dorobiala Jakub, Lazarek Maciej, Denkiewicz Michał, Kędziora-Kornatowska Kornelia. Pharmacotherapy of depression in palliative patients. Journal of Education, Health and Sport. 2019;9(9):27-37. eISSN 2391-8306. DOI <http://dx.doi.org/10.5281/zenodo.3372330>
<http://ojs.ukw.edu.pl/index.php/johs/article/view/7293>

Jędrzejkiewicz Bernadeta, Ogórek Marlena. Nursing care of patients with disability in the sheltered workplace - a case study. Journal of Education, Health and Sport. 2019;9(9):38-41. eISSN 2391-8306. DOI <http://dx.doi.org/10.5281/zenodo.3372347>
<http://ojs.ukw.edu.pl/index.php/johs/article/view/7295>

Makuch Marcin, Makuch Marcelina, Krzewicka-Romaniuk Ewa, Dzida Grzegorz. Sodium-glucose co-transporter 2 inhibitors – a review article. Journal of Education, Health and Sport. 2019;9(9):42-49. eISSN 2391-8306. DOI <http://dx.doi.org/10.5281/zenodo.3372353>
<http://ojs.ukw.edu.pl/index.php/johs/article/view/7297>

Myrtaj Nazim, Shkodra Mimoza. The impact of physical activities of aerobic type in body mass and volume parameters. Journal of Education, Health and Sport. 2019;9(9):50-57. eISSN 2391-8306. DOI <http://dx.doi.org/10.5281/zenodo.3373892>
<http://ojs.ukw.edu.pl/index.php/johs/article/view/7311>

Gladysz Konrad, Szpiech Kamil, Kuś Adrian, Szyplowska Małgorzata, Neścior Małgorzata. Virtual reality – future of diagnosis, medical education and therapy. Journal of Education, Health and Sport. 2019;9(9):58-65. eISSN 2391-8306. DOI <http://dx.doi.org/10.5281/zenodo.3373900>
<http://ojs.ukw.edu.pl/index.php/johs/article/view/7313>

Kościuk Andrzej, Kos Michał, Drankowska Justyna, Tchórz Michał. Self medication in the age of connectivity and its risks - the case report. Journal of Education, Health and Sport. 2019;9(9):66-71. eISSN 2391-8306. DOI <http://dx.doi.org/10.5281/zenodo.3377237>
<http://ojs.ukw.edu.pl/index.php/johs/article/view/7323>

Bąk Jadwiga, Rząca Marcin, Chrzan-Rodak Agnieszka, Zarzycka Danuta. Frequency and type of emergency medical teams intervention of in oncological patients from selected areas the Lublin region. Journal of Education, Health and Sport. 2019;9(9):72-79. eISSN 2391-8306. DOI <http://dx.doi.org/10.5281/zenodo.3384314>
<http://ojs.ukw.edu.pl/index.php/johs/article/view/7360>

Szmelcer Beniamin, Topka Weronika, Wszelaki Patrycja, Wilczyński Michał, Porada Mateusz, Florkiewicz Aleksander, Modrzejewski Mateusz, Wąsicki Mariusz, Wysocka Oktawia, Cięszka Karolina, Szewczak Dorota, Kujawska Agnieszka, Kędziora-Kornatowska Kornelia. Frequency and type of emergency medical teams intervention of in oncological patients from selected areas the Lublin region. Journal of Education, Health and Sport. 2019;9(9):80-89. eISSN 2391-8306. DOI <http://dx.doi.org/10.5281/zenodo.3384317>
<http://ojs.ukw.edu.pl/index.php/johs/article/view/7362>

Zieliński Grzegorz, Zięba Estera, Ginszt Michał. Determining the index of injuries requiring specialist treatment during boulder climbing on an artificial climbing wall. Journal of Education, Health and Sport. 2019;9(9):90-93. eISSN 2391-8306. DOI <http://dx.doi.org/10.5281/zenodo.3384349>
<http://ojs.ukw.edu.pl/index.php/johs/article/view/7368>

Taracha Anna, Orzel Anna, Toruń Zuzanna, Klatka Barbara, Majcher Małgorzata, Lewicki Marcin. Advanced medical technologies used in monitoring and therapy for diabetes - review work. Journal of Education, Health and Sport. 2019;9(9):94-103. eISSN 2391-8306. DOI <http://dx.doi.org/10.5281/zenodo.3384355>
<http://ojs.ukw.edu.pl/index.php/johs/article/view/7369>

Tobiasz Michał, Turkosz Agnieszka, Tobiasz Maciej, Polski Paweł, Wójcik Rafał. Bronchial asthma - what should every doctor know? Journal of Education, Health and Sport. 2019;9(9):104-111. eISSN 2391-8306. DOI <http://dx.doi.org/10.5281/zenodo.3384375>
<http://ojs.ukw.edu.pl/index.php/johs/article/view/7370>

Prylińska Monika, Husek Jakub, Wąsicki Mariusz, Modrzejewski Mateusz, Szewczak Dorota, Lamtych Martyna, Osiak Joanna, Bryfczyńska Marta, Trawka Paulina, Rogala Dorota, Kwietniewska Milena, Kędziora-Kornatowska Kornelia. A person with diabetes as a patient - basic rules of conduct. Journal of Education, Health and Sport. 2019;9(9):112-120. eISSN 2391-8306. DOI <http://dx.doi.org/10.5281/zenodo.3386702>
<http://ojs.ukw.edu.pl/index.php/johs/article/view/7371>

Wierzbicka Iwona. Nursing - history and development of the profession. Journal of Education, Health and Sport. 2019;9(9):121-129. eISSN 2391-8306. DOI <http://dx.doi.org/10.5281/zenodo.3386706>
<http://ojs.ukw.edu.pl/index.php/johs/article/view/7374>

Kujawska Agnieszka, Gajos Małgorzata, Topka Weronika, Szmelcer Beniamin, Bieniek Daria, Modlińska Aleksandra, Kożuchowski Marcin, Perkowski Radosław, Androsiuk-Perkowska Joanna, Ziolkowska Sylwia. The influence of non-pharmacological methods in osteoporosis treatment. Journal of Education, Health and Sport. 2019;9(9):130-138. eISSN 2391-8306. DOI <http://dx.doi.org/10.5281/zenodo.3386710>
<http://ojs.ukw.edu.pl/index.php/johs/article/view/7375>

Kujawska Agnieszka, Bieniek Daria, Kożuchowski Marcin, Dzienniak Ewa, Domeracki Mateusz. Telemedicine in cardiology. Journal of Education, Health and Sport. 2019;9(9):139-143. eISSN 2391-8306. DOI <http://dx.doi.org/10.5281/zenodo.3386716>
<http://ojs.ukw.edu.pl/index.php/johs/article/view/7376>

Janeczko Dominika, Orzel Anna, Klatka Barbara, Holowczuk Magdalena, Szlichta Grzegorz. Current pharmacotherapy and diagnostic methods of Pompe Disease in Poland. Journal of Education, Health and Sport. 2019;9(9):703-707. eISSN 2391-8306. DOI <http://dx.doi.org/10.5281/zenodo.3457463>
<http://ojs.ukw.edu.pl/index.php/jehs/article/view/7491>

Hevko Igor Vasilievich, Lutsyk Iryna Bogdanivna. Innovative technologies in the educational process. Journal of Education, Health and Sport. 2019;9(9):708-714. eISSN 2391-8306. DOI <http://dx.doi.org/10.5281/zenodo.3458494>
<http://ojs.ukw.edu.pl/index.php/jehs/article/view/7509>

The journal has had 7 points in Ministry of Science and Higher Education parametric evaluation. Part B item 1223 (26/01/2017).
1223 Journal of Education, Health and Sport eISSN 2391-8306

© The Authors 2019;

This article is published with open access at Licensee Open Journal Systems of Kazimierz Wielki University in Bydgoszcz, Poland

Open Access. This article is distributed under the terms of the Creative Commons Attribution Noncommercial License which permits any noncommercial use, distribution, and reproduction in any medium, provided the original author(s) and source are credited. This is an open access article licensed under the terms of the Creative Commons Attribution Non commercial license Share alike.

(<http://creativecommons.org/licenses/by-nc-sa/4.0/>) which permits unrestricted, non commercial use, distribution and reproduction in any medium, provided the work is properly cited.

The authors declare that there is no conflict of interests regarding the publication of this paper.

Received: 05.09.2019. Revised: 16.09.2019. Accepted: 23.09.2019.

UDK 378.147

INNOVATIVE TECHNOLOGIES IN THE EDUCATIONAL PROCESS

Igor Vasilievich Hevko

Doctor of Pedagogical Sciences. Professor

Iryna Bogdanivna Lutsyk

Candidate of Technical Sciences, Associate Professor

Ternopil National Pedagogical University Volodymyr Hnatyuk

Abstract

Among the priority directions of the state policy on the development of higher education in the context of European integration of Ukraine are identified the problem of continuous improvement of the quality of education, modernization of its content and forms of organization of the educational process; introduction of educational innovations and information technologies. Improving the quality of future teacher training aimed at implementing the provisions of the Bologna Declaration. The article presents an assessment of the effectiveness of implementing educational innovations and information technologies to improve the quality of the education system as a whole. Particular attention is paid to the use of innovative and information technologies to train future teachers.

Key words: innovative technologies, education, teacher, professionalism, competences, information tools.

ІННОВАЦІЙНІ ТЕХНОЛОГІЇ В ОСВІТНЬОМУ ПРОЦЕСІ

Ігор Васильович Гевко

доктор педагогічних наук, професор

Ірина Богданівна Луцик

кандидат технічних наук, доцент

Тернопільський національний педагогічний університет імені Володимира

Гнатюка

Серед пріоритетних напрямів державної політики щодо розвитку вищої освіти в контексті євроінтеграції України визначено проблему постійного підвищення якості освіти, модернізацію її змісту та форм організації навчально-виховного процесу; впровадження освітніх інновацій та інформаційних технологій. Підвищення якості професійної підготовки майбутнього вчителя, спрямованим на реалізацію положень Болонської декларації. В статті представлено оцінку ефективності впровадження освітніх інновацій та інформаційних технологій на підвищення якості системи освіти в цілому. Особливу увагу приділено питанню застосування інноваційних і інформаційних технологій для підготовки майбутніх вчителів.

Ключові слова: інноваційні технології, освіта, вчитель, професіоналізм, компетенції, інформаційні засоби.

Formulation of the problem in general form and its relation to important scientific or practical tasks. Among the priority directions of the state policy on the development of higher education in the context of European integration of Ukraine are identified the problem of continuous improvement of the quality of education, modernization of its content and forms of organization of the educational process; introduction of educational innovations and information technologies.

The reference is the theoretical model of the "innovative person", tested in the world. An innovative person is a person of such socio-cultural development, who is able to work creatively, be competitive in the conditions of today. Accordingly, the educational process should be transformed in the direction of individualization of educational interaction, teaching, formation of creative thinking and increase of independent work of students.

In Ukraine, innovative activity is envisaged by the draft Concept of State Innovation Policy (1997) and the draft Regulation “On the Procedure of Innovation Activity in the Education System” (1999).

The solution of the problem of the quality of professional training of the future technology teacher, in accordance with the modern requirements aimed at implementing the provisions of the Bologna Declaration, requires the introduction and use of credit-modular learning technology in the educational process of universities as a new model of the organization of the educational process.

Analysis of recent research and publications. Methodological bases of vocational guidance (concepts, content, principles, forms and methods) are considered in the works of EM Pavlyutenkov, SM Chistyakova, EA Klimova.

Modern scholars (M.Klarin, V.Monakhov, G.Selevko, V.Bespalko, A.Nisimchuk, etc.) have made a huge contribution to the development of the problem of innovative pedagogical technologies. The methodological aspects of the study of the credit-modular system of organization of the educational process are revealed in the works of I. Moroz, P. Sikorsky, S. Goncharova, V. Gurin, O. Spirina, O. Beznosyuk and others.

The introduction of this technology in the conditions of innovative development of society contributes to the democratization of the educational process, the organization of rational and effective assimilation of certain knowledge, stimulating the subjects of learning to systematic educational work, enhancing the motivational component, the formation of self-esteem actions and turning control into an effective mechanism of management process, [6].

Formulating the goals of the article (setting the task) Purpose of the course: To discover the importance of using innovative technologies in the educational process, future technology teachers in the minds of integration of higher education of Ukraine into the European space.

Outline of basic material. The main requirements for teacher training were reflected in the laws of Ukraine on the development of education. Thus, the State National Program “Education” (Ukraine of the 21st Century) states that “higher education is aimed at providing fundamental training of specialists, the formation of the intellectual potential of the nation and the comprehensive development of the individual as the highest value of society. It should become a powerful factor in the development of the spiritual culture of the Ukrainian people... ” [2, 3].

The National Doctrine of Educational Development in Ukraine in the 21st Century focuses on identifying priority areas for the development of humanitarian education in the

new conditions of state formation. Thus, the state documents of Ukraine on education and upbringing send higher pedagogical institutions to review the content, forms, methods of professional training of specialists.

This term came into use in the 40's of the twentieth century. It was first used by German and Austrian scientists in the analysis of socio-economic and technological processes. Subsequently, the concept of "innovation" was also used in pedagogical research, which meant everything new in the education system. Basic concepts reflecting innovative processes are presented.

Innovation (Italian. Innovazione) is news. The scientific and methodological literature defines a certain terminology of innovations - new forms of organization of labor and management, new types of technologies that cover not only individual installations and organizations, but also different spheres. The concept of "innovation" means innovation, novelty, change, innovation as a means and process implies the introduction of something new.

With regard to the pedagogical process, innovation means the introduction of new goals, content, methods and forms of education and training, organization of joint activities of teachers and students.

Innovation is an essential element of the development of education in general, the implementation of specific tasks in the educational process. Innovation is reflected in the trends of accumulation and reconciliation of initiatives and innovations in the educational space; cause some changes in education.

Education innovation is a deliberate process of partial changes leading to the modification of the purpose, content, methods, forms of learning and upbringing, adaptation of the learning process to new requirements [1].

An innovative educational institution is a higher education institution in which pedagogical and student teams experiment, test or introduce new pedagogical ideas, theories of technology.

Teacher's innovative potential is a set of socio-cultural and creative characteristics of an educator's personality, which shows a willingness to improve pedagogical activity, availability of internal means and methods capable of ensuring this readiness [1]

Innovative environment - these are certain moral and psychological circumstances, which are supported by a set of measures of organizational, methodological and psychological nature, which ensure the introduction of innovations in the educational process of higher education.

Innovative teaching methods include active learning methods that will enhance the future competence of the future technology teacher. Methods of active learning contribute to the formation of knowledge, professional skills and skills of future specialists, by involving them in intensive cognitive activity; activating the thinking of participants in the educational process; manifestation of students' active position; independent decision making in conditions of high motivation; teacher-student relationship, etc. [9].

Therefore, in the process of technology preparation, the following methods and techniques should be used:

- conducting interactive lectures, namely the use of the question-answer method when working with students during the lecture; holding short presentations prepared by students that would cover one of the issues raised in the topic; testing;
- implementation of such forms of work as a "round table", "workshop" in the course of practical classes, where students during the discussion solve important problems of the specialty on the basis of their own independent experience; conducting discussions, discussions, analysis of pedagogical situations;
- transformation of independent work of the student, performance of individual research task, as a mandatory component of the study of a specific educational discipline;
- use of presentations, publications, websites prepared by students at classes;
- use in the educational process of high school of role and business games, case-methods, "brainstorming", which contribute to the development of activity, creativity, creativity of the teacher;
- conducting workshops, training sessions that contribute to the formation of professional competence of the future technology teacher;
- widespread use of multimedia tools in the process of lecturing and conducting practical classes, electronic and various types of reference lecture notes, providing students with educational information on electronic media, Internet search, etc .;
- use of elements of imitation, reflection, relaxation in the course of separate practical classes;
- use of new approaches to control and evaluate student achievement, which provide objectivity and reliability.

Using the possibilities of innovative teaching methods, in the process of professional training of the future technology teacher, the following is activated: activation of students' cognitive activity; motivation and stimulation of future pedagogical specialists to educational activity; modeling of professional skills of the future specialist; satisfaction of professional

educational interests and needs; development of creativity, critical thinking; ability to show their personal and professionally important qualities; ensuring lifelong learning; formation of professional mobility, creativity, competence and competitiveness of future primary technology teachers in the labor market [8].

The necessity of introducing innovative methods in the process of professional preparation of the future elementary teacher, caused by the need of time, leads to further scientific developments of the problem of forming the professional competence of the future elementary teacher.

Conclusions. The innovative potential of the teacher is characterized by: creative ability to generate new ideas and ideas, which is due to the professional setting to achieve the priority tasks; ability to design and model their ideas in practice: a high-cultural-aesthetic level, education, intellectual depth and diversity of interests are inherent in the novice teacher; perception of new ideas, concepts, trends based on tolerance, flexibility and breadth of thinking.

REFERENCE

1. Hevko I. V. Psychological conditions for the development of technology teacher's professionalism. Bulletin of Cherkasy University. Pedagogical sciences. Cherkasy, 2017. Issue number 6. Pp. 38-50.
2. Hevko I. V. Formation of professional competence of the future teacher of technologies. Journal of Education, Health and Sport. Poland, 2017 Vol. 7. №7. Pp. 787-799.
3. Gushuley Y. M. The concept of in-depth general technical training of pupils in the system of continuous education // Scientific notes of the Ternopil State Pedagogical University. Series: Pedagogy. - 1999. - No.5. - Pp. 21-29.
4. Gushuley Y. M. General technical training of students in the process of labor education: didactic aspect / Ed. G. V. Tereshchuk. - Ternopil, TPPU, 2000, 312 p.
5. Gushuley Y. Creative tasks for the analysis of technical objects as the leading method of studying the basics of technology // Scientific and educational magazine "Obriy". - 2001, No.2 - pp. 90-92.
6. Esaulov A. F. Problems of solving problems in science and technology / A. F. Esaulov. - Leningrad: Leningrad University, 1979. - 200 p.
7. Tcherzhevsky D. The book on the experience of labor training in Ukraine / D. Tcherzhevsky // School and production. - 1970. - № 9. - P. 77.

8. Stefan L. V. Formation of an innovative culture of future engineer-teachers: monograph / L.V. Stefan. - Kh.: LLC "DM ZEBRA", 2012. - 350 p.

9. Yankovych O. I. Osvitni texnologiyi vyshchoyi shkoly Ukrayiny: problemy ta perspektyvy: monografiya. T. : Pidruchnyky i posibnyky, 2010. – 208 s.