

**SCIENCE AND EDUCATION
IN KARAKALPAKSTAN**

**ҚОРАҚАЛПОҒИСТОНДА
ФАН ВА ТАЪЛИМ**

**ҚАРАҚАЛПАҚСТАНДА
ИЛИМ ҲӘМ ТӘЛИМ**

**НАУКА И ОБРАЗОВАНИЕ
В КАРАКАЛПАКСТАНЕ**

2-сон

Нукус

2019 й.

ISSN 2181-9203





Science Magazine

Chief Editor:

Reymov A.

Deputy editor in chief:

B.Utemuratov

Executive secretaru:

Sh.N.Abdinazimov

Editorial board:

Bazarbaev J. Dr of Ph, academic
 Ayimbetov N.K. Dr of Economic Sciences
 Turdymambetov I.R. Doctor of Geography
 Ataniyazova O.A. Dr of medical sciences
 Aleuov W. Doctor of pedagogy
 Ubaydullaev Kh. Dr of Economic Sciences
 Umarova Q.U. Doctor of law
 Berdimuratova A.K. Doctor of Phylosophy
 Abdullaeva J.A. Dr of Hist. Sciences
 Allanazarov K. PhD in Geography
 Ayimbetov M.J. PhD in Technical Sciences
 Auevov O. Doctor of Tech. Sciences
 Baimanov K.I. Dr of Technical Sciences
 Bokieva G. Doctor of Philology
 Jarimbetov K.H. Doctor of Philology
 Ismayilov K.A. Dr of phys-math sciences
 Kayypbergenov B.T. Dr of Tech. Sciences
 Kayypbergenov A.T. Dr of Tech. Sciences
 Qdyryniyazov M.Sh. Dr of Hist. Sciences
 Kuranbaev K. Doctor of Philology
 Kudaibergenov K.K. Dr of phys-math sciences
 Kushiev H. Dr of Biol. Sciences
 Mambetnazarov B.S. Dr of Agr. Sciences
 Mambetullayeva S.M. Dr of Biol. Sciences
 Murtazayeva A.D. Dr of Hist. Sciences
 Muslimov N. Doctor of pedagogy
 Nishonova Z.T. Dr of psychology sciences
 Oripova M.H. Dr of Tech. Sciences
 Paluaniyazov P.K. PhD History
 Razhapov A. Dr of Tech. Sciences
 Sadullaev A. Dr of phys-math sciences, acad
 Tagaev M.B. Dr of phys-math sciences
 Toreniyazov E.Sh. Dr of Agr. Sciences
 Utebayev T.T. Doctor of pedagogy
 Holbaev I. Dr of phys-math sciences
 Shermuhamedova N. Doctor of Phylosophy
 Egamberdiev F. Dr of Economic Sciences
 Teumuratov G. PhD in Philology
 Kubeysinova D.T. PhD in Philology
 Kurbanbaev Dj. A. PhD in Pedagogy
 Seytjanov J.E. PhD in Philology

Editorial address:

Street, 1 Ch.Abdirov,
 Nukus, 230100,
 Phone: 223-60-19

For the accuracy of the information presented in the journal are the authors of the article.

NATURAL SCIENCES

Reymov A.M., Ismailov D.U., Abdullayeva M.T., Orazbaeva A.A., Kucharov B.H., Erkaev A.U., Zakirov B.S. Study of the process of production of Liquid Nitrogen Fertilizers..... 3

Khojabaeva G.A., Nurimbetov B.Ch., Kudaibergenova A.M., Tursinbaeva F.S. Influence of filler on process of structure formation in lime-belite binder..... 8

Kazimbetova M.M., Urazimbetova E.P. The use of internet recourses for improving listening skill in learning foreign language..... 13

Tureeva.Q.J., Mambetullaeva.S.M., Reymbaeva.R.S., Alpishaeva.A.J. Researches of spatial transfer of components of phosphorus in the limnic ecosystems of South Aral Sea on a mathematical model..... 16

Tleuov K.O., Begilov B.N., Melsova D.A. Research on development of software facilities of the complex of cleaning of polluted water..... 21

Utemisov A.O., Utemuratov B.B., Tleuov K.O., Melsova D.A. Modern information and computer technologies in the system of physical education and sport..... 26

Kholbayev G. Kh., Khodjaeva G. Study of temperature changes in the irrigated areas of the Republic of Karakalpakstan 30

Ismailov K.A., Muratov A.S., Nasirova G.M. Complex differential resistance long diodes made of compensated semiconductors..... 36

TECHNICAL SCIENCES

Kidirbaev B.Yu. Use of modern methods of Landscape Architecture in urban planning of The Republic of Karakalpakstan 44

Allaniyazova G.A., Bayniyazov A.T. History of finding Oil and Gas in the us..... 48

Adylkholdjaev A.I., Makhmataliev I.M., Ilyasov A.T., Nizamatdinov Z.Sh. Processes of salinity-formation on the surfaces of ceramic material and the methods of their elimination..... 52

AGRICULTURAL SCIENCES

Bauatdinov T.S. Development of technology for the use of local mineral agro-ores that increase soil fertility and cotton yields..... 57

COMMUNITY SCIENCES

Alimov A., Allanazarova B. A model for ecotourism development in special protected areas in the Republic of Karakalpakstan 62

Obidov S., Alimov A. The main tendencies of development of innovative activity in the automobile building of the Republic of Uzbekistan 76

Rasulov S. Improving efficiency of use irrigated land 85

HUMANITIES SCIENCES

Urazbayeva R.Dj. Topical problems in the Historical Science of Karakalpakstan... 89

Najimov M.Sh. Concept and types of computer information as an evidence in Crimanal Process 93

Babaniyazova N.P., Ismailova S.T. The communicative competence formation in the process of the english teaching..... 100

Urazbayeva R.Dj., Jollibekova I.B. Training of personnel in the Republic of Karakalpakstan in the Years of Independence 104

Utemuratova S.SH., Dosnazarova A. Female crime and its prevention..... 108

Kidirbaev Q.M. Philosophical analysis of technical development 111

Eshniyazov R. International integration processes as a means to increase efficiency and competitiveness of the uzbekistan educational system 114

Khodjaniyazova U.K. Peculiarities of written language development on a basic level 118

Berdimuratova G.M. The main stages of the formation of the judiciary in the Republic of Karakalpakstan 123

UDC. 796.012

MODERN INFORMATION AND COMPUTER TECHNOLOGIES IN THE SYSTEM OF PHYSICAL EDUCATION AND SPORT

Utemisov A.O.¹, Utemuratov B.B.², Tleuov K.O.³ Melsova D.A.³

¹*Nukus state pedagogical institute named after Ajiniyaz*

²*Nukus branch of Uzbek State University of physical culture and sport*

³*Nukus Branch of Tashkent University of Information Technologies named after Muhammad al-Khowrezmi*

Summary. *The article deals with the problem of the use of information and communication technologies (ICT) by specialists in physical culture and sports in general education schools and higher educational institutions is considered. The great potential possibilities of using computer technologies in the physical education of schoolchildren and students, in particular, in the process of their physical preparation are shown.*

Key words. *Automated information system, management of the educational process, management of physical training of students.*

Introduction: Innovations in the system of physical education and sports are becoming a natural phenomenon. With the accumulation of knowledge in the field of physical culture, gaining scientific and pedagogical experience, the emergence of new sports equipment and equipment, improving the design of sports facilities, new ideas are born to transform educational and sports training processes, providing greater guarantees for improving the health of students and students, improving their physical fitness achieving high sports results.

Main part: At the end of the 20th century, developed countries are gradually moving from an industrial to an information society, in which information becomes one of the main resources. That is why the ability to properly organize the storage, processing and transmission of information is one of the main aspects of the successful functioning of the economy. The rapid development and introduction of information and communication technologies entailed changes in all spheres of life for people who, with their help, sought to automate and optimize the processes associated with operations on information.

The development of technology has had a direct impact, in particular, on the sphere of physical culture and sports. It should be noted that the use of ICT has its own characteristics depending on the field of application and the tasks that need to be addressed in a particular area. The sport industry cannot be called homogeneous, since each species has its own characteristics, characteristic only for it, but there are also general indicators for all sports. For example, athletes, coaches, training

schedules, statistics, and so on. Highlighting this information, we can name the main areas of application of information and communication technologies in sports:

- Training qualified professionals to work in the field of sports. The use of information and communication technologies in the educational process makes it possible to develop new educational materials that will work on the basis of modern technologies. These materials include multimedia teaching and control systems; databases containing information in various formats (audio, video, text files); Internet resources, etc.;

- Automation of the processes of control and accounting of sports activities. This may include the processing of competition results, the calculation of statistical data, the analysis of scientific research, etc. In these processes, large streams of information are processed, which is why there is a need to automate processing, which can significantly reduce the time spent and other resources;

- In advertising and business activities. With the transition to a market economy there is a rapid commercialization of sports, so advertising plays a very important role. On the other hand, it is connected with the social sphere, which seeks to attract people to the sport and develop the trend of a healthy lifestyle;

- Use of information and communication technology tools to monitor specific aspects of sports activities. Monitoring is a complex system of observations, assessment and forecast of changes in the state of an object. In the sports industry, monitoring is carried out to assess the physical and psychological state of athletes. Based on the results of the study, further development prospects and training plans are reviewed and lined up.

After analyzing the directions of information and communication technologies in the sports industry, we can conclude that some of the technologies will be interdisciplinary, they will relate to the field of sports and at the same time to the fields of education or medicine. This indicates the need to integrate systems of various industries.

Considering the introduction of information and communication technologies in the field of sports, the question arises of the existence of specialized software. Undoubtedly, standard Microsoft Office programs can be used. For example, MS Excel allows you to enter data, modify, structure it, perform calculations, build charts, etc. Using MS Access it is possible to create and manage a relational database. But these tools and their capabilities are not enough when it comes to the requirements of a particular sport. It is here, at a high level, that the development of complex software products for a specific goal in a particular sport becomes necessary.

In the direction of sports statistics in Italy developed a program of statistical accounting Data Volley. This program for statistical accounting in volleyball matches, the most common in the world. There are several varieties of this program - for keeping statistics during trainings, competitions and others. But the work in this program turns out to be quite difficult, the problem arises of a shortage of specialists working with it. Another disadvantage is the high cost.

Summing up, it can be noted that the introduction of information and communication technologies in the sports sector is only at the initial stage. There are still many prospects and directions of development, for example, in the field of training of sports specialists. It is possible to create complex software and technological systems that will allow the sports industry to move to a new level. For this, it is necessary to attract specialists from various fields and to summarize the knowledge already gained. Information and communication technologies should create a qualitatively new information environment that ensures the development of interest in sports and satisfies the requirements of complex sports complexes.

For free orientation in information flows, a modern specialist of any profile should be able to receive, process and use information with the help of computers, telecommunication means of information technology [1. 24.26].

The main directions of the use of information technologies in physical education and sports are associated with: the development of personality and the preparation of future specialists for a comfortable life in the conditions of the information society; with the implementation of the social order for specialists in the field of agriculture; with the intensification of all levels of educational and training processes.

In physical education and sport information and computer technologies are applied: as the tutorial improving process of teaching and increasing its efficiency; as means of information methodical support and management of teaching and educational and organizational process in institutions of education; at the organization of monitoring of physical development, functional and physical fitness of students; as correction of results of educational and educational and training activity; as computer testing of physical, intellectual, functional and psychological conditions of students; as the automation equipment of processing of results of competitions; in publishing in the sphere of physical culture and sport.

The use of software and pedagogical tools in physical education and sports is focused on solving a particular educational problem that requires its study. Modern software and teaching tools are implemented on the basis of multimedia technology.

Computer visualization of educational information on physical culture - a visual representation on the screen of an object, its main parts or models, and, if necessary, a presentation of a graphical interpretation of the studied pattern of the object or process under development, in temporal and spatial motion.

Modern scientific research in the field of physical culture and sports, having an interdisciplinary character, cannot be successful without comprehensive information support.

The active introduction of technical means of education has led to the rapid development of the process of information support, which has existed on paper for a long period [2.15-18]. There has been a trend of transition from traditional information support to information technology. Information technologies are understood as a system of goals, forms, methods and a set of technical means ensuring the implementation of the content of training (State educational standard of higher education, curricula, curricula, textbooks, teaching aids).

Modern computing has long been used in sports life. Digital video, digital boards, various measuring systems are widely used in all major competitions.

In education, there is a need to move from traditional forms of training, aimed primarily at the accumulation of certain knowledge and skills to the use of modern information technologies, allowing for more efficient collection, processing and transmission of information, independent work and self-education, qualitatively change the content, methods and organizational forms of education.

Conclusion: Innovative processes in the physical education of students have become in demand in our society in the last decade due to steady trends in lowering students' health, weakening their physical abilities, increasing the number of people involved in preparatory and special medical groups, refusing to attend classes regularly.

Updating state educational standards, curricula in physical culture, instructions on the work of the departments of physical education and sport is an example of large-scale organizational and methodological innovations in the field of physical education of students.

In assessing the current stage of development of information technologies in the Republic of Uzbekistan, despite the abundance of areas and their application, these developments are of a private nature and are not widely used.

References

1. Vinogradov P.A., Mochenov V.P. Noviy etap v razvitiy fizkulturno-ozdorovitelnoy i sportivnoy sredi uchacheysya molodeji // Teoriya i praktika fizicheskoy kulturi. - 1998, № 7, pr. 24-26, 39-40.
2. Zaytseva T.I., Smirnova O.Yu. V sb.: Informatsionnie texnologiy v obrazovanii. M., 2000.

Rezyume. *Maqolada jismoniy tarbiya va sport mutaxassislari tomonidan umumtalim va oliy talim muassasalarida axborot va kompyuter texnologiyalari (AKT)dan foydalanish masalasi ko'rib chiqildi. O'quvchilar va talabalarning jismoniy tarbiya tizimida, xususan, ularning jismoniy tayyorgarligi jarayonida kompyuter texnologiyasidan foydalanishning katta potentsial imkoniyatlari ko'rastildi.*

Резюме. *Рассматривается проблема использования информационно-коммуникационных технологий (ИКТ) специалистами по физической культуре и спорту в общеобразовательной школе и высших учебных заведениях. Показаны большие потенциальные возможности применения компьютерных технологий в физическом воспитании школьников и студентов, в частности, в процессе их физической подготовки.*

Kalit so'zlar. *Avtomatlashtirilgan axborot tizimi, o'quv jarayonini boshqarish, talabalarning jismoniy tarbiya jarayonini boshqarish.*

Ключевые слова. *Автоматизированная информационная система, управление учебным процессом, управление физической подготовкой студентов.*