Uzbek Scholar Journal
Volume- 24, January, 2024
www.uzbekscholar.com

INTERACTIVE APPLICATIONS FROM ASTRONOMY AND WAYS TO MANAGE THEM

Saifullayeva Gulhayo volunteer daughter
Professor of Navoi State Pedagogical Institute

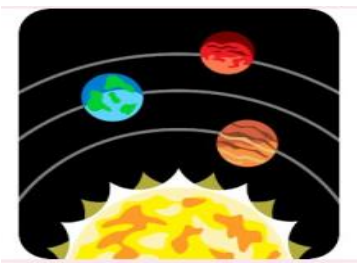
Abstract:
Nowadays, in the context of globalization, the issue of the use of media education in the teaching of Astronomy in schools of general secondary education and institutions of higher education is very important and relevant. Modern programs, teaching methods, telecommunication facilities and media are developing at an accelerated pace. Therefore, it is important to determine the didactic requirements for the integration of media data, software-pedagogical tools and telecommunications teaching aids into education in the field of astronomy, to analyze the methods of applying media education and telecommunication technologies in the teaching of astronomy.

Keywords: multimedia, sound, graphics, text, animation,"human-computer" interactive communication, the benefits of multimedia tools, distance-based teaching, interactive technologies, audiocanferences, noninteractive taxnologies

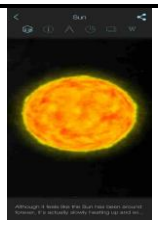
Introduction

All software can be explained in three categories:
operating system;
applied software;
software technology equipment tools.
Systematic software is a complex of programs that provide the work of computer and computer networks.
Application software (Aplication program paskage) is a set of programs designed to solve a specific class of issues in a specific subject area. Equipment tools of programming technology are tools consisting of a set of special programs that are used in the process of developing new programs. These tools serve as the programmer's equipment tools, that is, they are designed to develop (including automatically), store and implement applications.

In the process of interactive education, the student is influenced on the basis of conversation or in the manner of dialogue, creating conditions for the personality, intellectual and creative abilities of the student, self-development and formation in the future.
Below we will get acquainted with several interactive programs.
Solar Walk Lite Planetarium 3D



Through this application, we can find out the general information about The Sun.



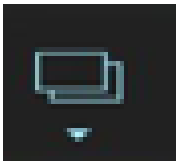
Let's see what the characters at the top of our screen mean

In this window we can observe the appearance of The Sun

By clicking on this button, we will have an overview of The Sun

By pressing this button we can see the astronomical magnitudes of the sun i.e. radius, mass age and similar magnitudes

And when we click on this icon, we get the following Look



In the Solar Walk Lite Planetarium 3D application, we can take a look at a series of pictures of the sun. To do this, all we have to do is click on the following button at the top:

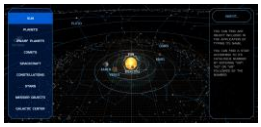
In this astronomical application, we also have the Wikipedia section, in which we can have a lot of information, we will go to this Wikipedia section by clicking on the button at the top of the screen:
More bit interactive program is the program "pulling the solar system".
Galaxy locations and their data can be determined using the related "Solar System Scope" program.

In this window we can find information about the Galactics, planets, stars and solar CISM. There are also other functions in this window. Functions include their location coordinates and hakozos.

STAR EXPLORE when we press the button, the following information comes out.

MESSIER OBJECTS we can see different constellations when we press the button.

Through this window, it shows the gallactics, the sun, the planets and where the stars are located.



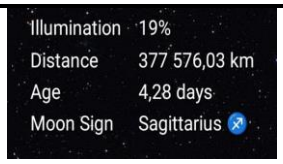
We can see news,motivations, merchandise,credits and other finishes in Solar System Scope. In addition, the following program can be used to have the necessary information about the Moon and broader visions, using thephases of the Moondasturi it is possible to study the following.

You can move it by clicking on the moon in the application

When we click on the date the lunar calendar will appear

And these 2 signs in the left and right corner indicate the time of the moon's exit and sunset

This entry below is information about the same date and time of the game



To bring the moon standing on the screen closer, the names of spacecraft that landed on the surface of the moon come out

Multimedia tools (multimedia – multivositality) are a set of technical and software tools that allow a person to communicate with a computer using a natural muse for himself: sound, video, graphics, texts, animation, etc. Multimedia-gurkirab is a developing modern information technology. Its distinguishing features include the lower:

-integrates different types of Information: traditional (text, tables, decorations, etc.), original (nutk, music, excerpts from videos, telekadrs, animation, etc.) in one software product. Such integration is carried out in Computer Management using various devices of Information Registration and reflection: microphone, audio-systems, optical compactdiscs, TV, video recorder, video camera, electronic musical instruments;

- work at a certain time, in contrast to text and graphics, which are static in Nature, audio and video recordings are considered only at a certain interval of time. In order to process and reflect Video and audio information on a computer, the central processor requires rapid mobility, the bandwidth of the data transfer tire, RAM (fast) and video-memory with a large capacity external memory (public memory), approximately doubling the speed of its exchange in terms of volume and computer input-output channels;

- a new level of interactive communication" human-computer", in which, in the process of communication, the user receives much more extensive and comprehensive information that makes it possible to improve the conditions of this state of education, work or rest. Teaching students on the basis of Multimedia tools and setting up training of personnel is one of the current issues of the day. The concept of Multimedia entered our life at the beginning of the 90s. What is the question of him himself? Many experts analyze the term in different ways. In our opinion, multimedia is an embodied phenomenon of the delivery of educational materials to students based on audio, video, text, graphics and animation (spatial resolution of objects) effects based on software and technical means of Informatics.

This method of teaching in developed countries is currently being implemented in the field of Education. Even, every family stole without multimedia tools, not releasing. The gross turnover of Multimedia vehicles in 1981 was 4 crore. Us$, compared to $ 16 billion in 1994. US dollars picked up. Nowadays, not every comp on sale can be imagined without multimedia tools. Attempts at the widespread use of computers in the educational Sox in the 70s were associated with the fact that Zoe went, first of all, in the womb, they were inferior in productivity. Practice shows that teaching students on the basis of multimedia tools is doubly fertile and can cough from time. On the basis of Multimedia tools, it is

possible to save up to 30% of time in obtaining knowledge, while the acquired knowledge will remain in memory for a longer period. If students receive the materials being given on a visual (video) basis, the storage of information in memory will increase by 25-30%. In addition to this, the storage of materials in memory increases by 75% if the educational materials are given embodied in audio, video and graphics. To this we have once again expressed confidence in the process of learning foreign languages based on multimedia tools.

References:

1. А.А.Ахмедов, Э.А.Кудратов, Д.М.Холов. "Инновационные Технологии В Науке И Образовании" сборник статей победителей международной научно-практической конференции. 2016. Издательство: Наука и Просвещение. Пенза.
2. Б.Ф.Избосаров, А.А.Ахмедов, И.Р.Камалов. "Инновационные подходы к проведению лабораторных работ по физике". Новые технологии в образовании. 106-109.
3. E.N.Xudayberdiyev. "Bo'lajak fizika o'qituvchilarini tayyorlashda olamning fizik manzarasi bo'yicha tasavvurlarni shakllantirish". Academic research in educational sciences. 2021.
4. A.K.Kutbeddinov. "Generalization of uranium radio features in teaching natural sciencesak". Молодые ученые. 2023. 129-134.
5. I.R. Kamolov, G.I. Sayfullaeva -Formation of teacher's competence in the performance of laboratory and experimental works Journal of critical reviews. ISSN-2394-5125, 2020
6. D.I.Kamalova, S.N.Abdisalomova. "Zamonaviy innovatsion ta'lim". Journal of universal science research. Volume 1. Issue 1. 17 january, 2023. pp. 187-189.
7. Сарвиноз Тулкуновна Баракаева, Гулхаё Ихтиёровна Сайфуллаева, Сайибжан Садыкович Негматов, Нодира Сайибжановна Абед, Ихтиёр Рамазонович Камолов, Дилнавоз Ихтиёровна Камалова Методика получения композиционных образцов на основе термореактивных фурано-эпоксидных полимеров и органоминеральных наполнителей Universum: технические науки, 2021 1-1 (82) 42-45
8. L.K.Samandarov, E.N.Xudayberdiyev. Methodological problems of teaching the theory of particle-wave dualism for physics students. Theoretical&applied science. Теоретическая и прикладная наука. 256-262.
9. U.R.Bekpulatov. "Physical style of thinking-methodological basis for the formation of a scientific world view". Theoretical&Applied Science. 09(89). 183-188.
10. Ҳамроева Севара Насриддиновна, Камолов Ихтиёр Рамазонович. "Педагогика олий таълим муассасаларида бўлажак физика фани ўқитувчиларининг мантиқий фикрлаш қобилиятини stem таълим дастури асосида ривожлантириб ўқитишни такомиллаштириш". Science and innovation International scientific journal. volume 1. issue 6. UIF-2022. 2181-3337.
11. Каримова Ойниса Абдимуминовна. Активизация креативного мышления учащихся на уроке физики Традиции и новации в профессиональной подготовке и деятельности педагога. 227-229.
12. Azzamova Nilufar Buronovna, Nasriddinov Komiljon Rahmatovich. Electrodynamics As A Basis For Consolidating Knowledge Of Electromagnetism. Solid State Technology. 4(63). 5146.
13. У.Д.Шеркулов, А.М.Музафаров, Т.И.Солиев. Determination of mixing factors of daughter radionuclides in the uranium decay chain. Neuroquantology. September. 2022. Volume 20. Issue 11. London.

14. Sh.E.Khalilov, J.M.Khakkulov Z.Sh.Temirov. “Electrochemical Reduction Of Macroiones As A Surface-Active Nanocoating And Nanocomposites”. The American Journal of Applied sciences. 2021.
15. Ж.М.Абдуллаев, Л.И.Очилов. “Изъятие пресной воды из подземных вод при помощи гелиоустановки водоносного опреснителя”. Молодой учёный научный журнал. 2015/5. 274-276.
16. F.Nabiyeva. Issiqlik hodisalarini o‘qitishga oid umumiy metodik tavsiyalar. «Science and innovation». 446-449.
17. Tursunboy Izzatillo ugli Soliyev, Amrullo Mustafoyevich Muzafarov, Bahriddin Faxriddinovich Izbosarov. Experimental determination of the radioactive equilibrium coefficient between radionuclides of the uranium decay chain. International Scientific Journal Theoretical&Applied Science. 801-804.
18. L.X.Turabova, D.I.Kamalova. Fizika fanini o’qitishda elektron o’quv qo’llanmalardan foydalanishning ahamiyati. “Polish science journal”. Warsaw, Poland. Issue 4(37). April. 2021. pp. 222-225.
19. С.С.Канатбаев, И.Р.Камалов, Д.И.Камолова, Г.И.Сайфуллаева. “Universum: технические науки”. Россия. Декабрь, 2016. №12(33). 38-40 стр.
20. Хушвақтов Бекмурод Нормуродович. “Innovative Fundamentals of Non-Traditional Teaching (on The Example of The Optics Department)” Journal of Ethics and Diversity in International Communication”. e-ISSN: 2792-4017. www.openaccessjournals.eu. Volume.1 Issue.3.
21. A.R. Sattorov G. I. Sayfullaeva, Methodology of Application of Innovative Educational Technologies from Astronomy to Laboratory Activities 2021/10/29 European Journal of Life Safety and Stability (2660-9630) 125-128
22. O’.K.Sunnatova, G.I.Sayfullayeva. Making a vacuum cleaner using the stem education system in students' laboratory classes. Web of Discoveries: Journal of Analysis and Inventions. 2023. 43-47.
23. Sayfullaeva Gulkhayo Ikhtiyor Kizi, Shodiev Khamza Ruziculovich, Xaitova Shakhnoza G’olibjon Kizi Conditions For The Formation Of Teaching Innovation Activities Journal of Pharmaceutical Negative Results, 2023 2420-2423
24. Э. А. Кудратов Э. А. Аллаберганова, Г. М., Кутбеддинов, А. К., Каримов, А. М., Интерактивные методы обучения студентов естественных специальностей на основании радиационных факторов экосистемы. Педагогика и современность ISSN: 2304-9065
25. B. I Xojiyev, N.A. Ulugberdiyeva, AA Xo’jayev, AA Amonov Studying the transition processes in physics lessons Galaxy International Interdisciplinary Research Journal 10 (5), 873-876, 2022
26. Bobir Makhammadov The usage of android operating system mobile application terms in the russian language Proceedings of International Conference on Scientific Research in Natural and Social Sciences 2023/2/4 246-251
27. Bozorova Aziza : Sayfullayeva Gulhayo Ixtiyor qizi ASTRONOMIYADAN STEM DASTURIDAN FOYDALANIB QUYOSH SOATI MAVZUSINI O’QITISH - Yosh tadqiqotchi jurnali, 2022 35-38
28. M Muhabbat, B Aziza, G.I. Sayfullayeva FINAL CONTROL WORK DISTANT. TSUL. UZ DOWNLOAD INSTRUCTION TO THE DISTANCE LEARNING PLATFORM Web Of Teachers: Inderscience Research 1 (8), 82-86

29. M Muhabbat, B Aziza, G.I. Sayfullayeva Elements Of The Credit-Module System In Higher Education In The Republic Of Uzbekistan Web Of Scientists And Scholars: Journal Of Multidisciplinary Research 1 (8 …
30. M Muhabbat, B Aziza, G.I. Sayfullayeva OPPORTUNITIES FOR THE USE OF INNOVATIVE TECHNOLOGIES IN THE ORGANIZATION OF INDEPENDENT EDUCATION IN THE CREDIT-MODULE SYSTEM Web Of Humanities: Journal Of Social Science And Humanitarian Research 1 (8 …
31. Izranov, V., Palvanova, U., Gordova, V., Perepelitsa, S., & Morozov, S. (2019). Ultrasound criteria of splenomegaly. The Radiologist, 1(1002), 3-6.
32. Stepanyan, I. A., Izranov, V. A., Gordova, V. S., Beleckaya, M. A., & Palvanova, U. B. (2021). Ultrasound examination of the liver: the search for the most reproducible and easy to operate measuring method of the right lobe oblique craniocaudal diameter. Diagnostic radiology and radiotherapy, 11(4), 68-79.
33. Batirovna, Y. A., Bahramovna, P. U., Bahramovna, P. S., & Ogli, I. A. U. (2019). Effective treatment of patients with chronic hepatitis, who live in ecologically unfavorable South zone of Aral Sea region. Наука, образование и культура, (2 (36)), 50-52.
34. Садикова, У., & Хасанова, Д. (2020). HOW TO DEVELOP DIABETES IN THE HUMAN BODY, PSYCHOLOGICAL COUNSELING AND PREVENTION. Актуальные научные исследования в современном мире, (5-9), 12-17.
35. Хасанова, Д. (2016). Словообразование в качестве объекта теории номинации. Ученый XXI века, (9 (22)), 81-84.
36. Машарипова, М. С., & Файзуллаева, Н. Я. (2019). COMPARATIVE STUDY OF THE IMMUNE STATUS IN CHILDREN WITH CHRONIC AND ACUTE BRONCHITIS. Новый день в медицине, (2), 209-213.
37. SUNNATILLAYEV, A. (2023). O ‘ZBEK XALQ TO ‘Y QO ‘SHIQLARIDAN “O ‘LAN” NING O ‘ZIGA XOS XUSUSIYATLARI. Journal of Culture and Art, 1(5), 41-48.
38. ИСМОИЛОВА, С., & СУННАТИЛЛАЕВ, А. (2023). ЎЗБЕК МАРОСИМ ҚЎШИҚЛАРИДАН “ЎЛАН” НИНГ ЭТНИК ВА ҒОЯВИЙ-БАДИИЙ ХУСУСИЯТЛАРИ. Journal of Research and Innovation, 1(1), 74-79.
39. ХАЙДАРОВ, Х., & СУННАТИЛЛАЕВ, А. (2023). АЛПОМИШ” ДОСТОНИ–МУМТОЗ ЭПОС НАМУНАСИ СИФАТИДА (“Алпомиш” достонининг сюжети ва ўзига хос бадиий қирралари). Journal of Research and Innovation, 1(1), 69-73.
40. Sunnatillayev, A. (2023). FOLKLOR-ETNOGRAFIK JAMOALARINI TASHKIL ETISHNING O ‘ZIGA XOS XUSUSIYATLARI. Oriental Art and Culture, 4(2), 874-879.
41. Sunnatovich, S. A. (2022). SCIENTIFIC DESCRIPTION OF UZBEK REWARDS. Oriental Art and Culture, 3(1), 308-314.
42. Машарипова, М. С., Тухтаева, М. А., & Тухтаев, Д. А. (2018). ОСОБЕННОСТИ ПАРАМЕТРОВ ИММУННОГО СТАТУСА У ДЕТЕЙ БОЛЬНЫХ ХРОНИЧЕСКИМИ БРОНХИТАМИ. BIOLOGICAL SCIENCES, 26.
43. Машарипова, М. С., & Халимбетов, Г. С. (2024, January). ИММУННЫЙ СТАТУС У ДЕТЕЙ БОЛЬНЫХ ХРОНИЧЕСКИМИ БРОНХИТАМИ РАЗЛИЧНОЙ ЭТИОЛОГИИ. In E Conference Zone (pp. 35-38).
44. Shamuratovna, B. K., Akhmetovna, M. M., Sharifovna, B. S., & Olimjonovna, S. S. (2023). Study of the Antimicrobial Properties of Preparations Prepared from Medicinal Plants (Dry Extract, Biologically Active Substances and Essential Oil). Journal of Coastal Life Medicine, 11, 2210-2213.
45. Болтаева, К. (2022). Определение антимикробных свойств настоя из надземной части lophanthus anisatus. Общество и инновации, 3(6/S), 195-201.