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# **Methodology of Creating and Applying a Site for Statistical Physics in the Word Press System**

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**ABSTRACT:** Today we know that making the sites is becoming actual. The on-line teaching content environment help better assimilate teaching materials. Using traditional teaching and on-line teaching give high results. Every day became popular making sites for schools, for press-schools. This is actual for high education too. Ministry of Press school demands making sites and on-line recourses for press school teaching, for children and Methodists, psychologies, ministry of elementary school exacts making on-line recourses, sites for pupils for teaching different e-learning recourses. This problem is actual for High School too. We need at modern national on-line courses, which have translate at other languages. Exactions for this work are very strong. For making site modern man must know many programming languages, know HTML tags, PHP program. For maker e-learning recourses can emerged many systems, which help making sites, on-line courses, content at the internet. They are systems of distant learning. These systems are more. They emerge distant e-learning sites, courses, teaching content for different subjects. These environments are systems of distant learning and help to management of educational process. User must to determine system at his computer and to learn materials about this system, about using it. Today we can to make site if we do not know PHP programming or HTML language and its tags. For this, we must know to make sites, on-line recourses and distant courses at Word Press, Moodle learning management systems, programming means. Now state very actuality making sites at the Word Press for schools, press-schools, we need in knowledge of fractions these systems, programs for making on-line recourses, internet materials[1-5, 6,11,17,18,19,21-25]. Using these, users need in systems, which bad know programming. User must know determine teaching platform, he must know composition of catalog, possibilities of making sites, particles of menu system, to put texts, images. Everybody need at knowledge whither put information and how this to do. Extreme knowledge of making programs for making sites we do not need. Because there are Certificate, Forum domains, which we can easy use. There are domain of output results of test, where we can see student's marks, mistakes. But if want making output Certificate of student's marks after cultivation of results, with their names and surnames, you must know PHP programming for making program, which will give Certificate to students, which decided test true on 71%. Students, which decide this test false, did not receive of Certificate. Certificate can show numeral results of test. There are many servers for determine system at the computer. We use the server Denver, which have three parts: Start Denver, Restart Denver, Stop Denver. Start Denver we use at beginning work of our site, Restart Denver for restart site, Stop Denver at the end of work. You must press at Start Denver and making local host. There show road to you site. Then you must making menu of your site, put images, making theme and select image for it. Then you must save these things. You need inlooking site, because you must see different things, which you introduce to site. You can see theme, image and other. For using site, we use Start Denver, then burden computer's browser then encumber local hosting file, and our site begins to work. We know exist other systems of making site, this is Moodle teaching platform. There are many domains for making site, test for different subjects, for example, for 'Statistic Physics'. We know many platforms: Sava, eFront, Open LMS. Using Moodle for education give good results. Word Press is good master in receiving good sites, on-line recourses. Student can learn subjects at ending of finger. The site we can determine at our mobile telephone, we can work with him on our computer in internet. This give us many possibilities for learning subjects, because this type of education is electron, e-learning study, which help for traditional teaching. We can use many plugins in making site. There are ready plugins<sup>1</sup>. But for introduce many new possibilities we can making program at PHP, which support system for output results of test with obtain certificate about adoption of subject. "Statistic Physics" is one of popular bodies of Physics. There are books, information about Statistic Physics and Thermodynamics in internet, but there are not on-line recourses with

<sup>1</sup>Plugin-professional word, which has mean of ready tunings for using.



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animations for this subject. There are animations for themes “Statistic Physics”. Many specialists know information technologies; using, its, but they did not know physics. Some know physics, but cannot make site or content, they can write materials of site, lections, tests for their, glossary, literature, but they cannot put in system its and to make site. Some of them know using system, can do programs, sites, but they did not know physics. The system Moodle has these categories: lection, test, glossary, literature. There we can make at the Word Press too, but for it we must know to work in the system. We made the site for deciding this problem. Methodology of using site following: we must establish Denver Server, then press at the Start Denver, introduce the browser, find local host file of our site and begin work in site, look menu, themes with pictures and others. Read our site and use it in education [21-25].

**KEY WORDS:** Word Press, system of distant learning, platform of distant learning, plugin, teaching content, elements of teaching content, methodology, site.

## I. INTRODUCTION

Site creation is becoming more popular and therefore the most promising. Analyzing a lot of research in this area and various programming environments for site creation, scientific and scientific-methodological research on the language of tags, we found that several online resources for the study of science have been created in foreign Internet resources [1-5,6,7,8-19,20, 21-28]. For example, in the United States alone, Yenka's Crocodile Physics program, designed to study physics, is designed to display more than 150 animations and physical models. In addition, Yenka has developed Crocodile Chemistry, an online program designed to perform chemical experiments and teach how to create and construct Crocodile ICT algorithms[21]. Russia also has a number of online software applications in this area. Examples are the analyzed resources "Live Physics", "Open Physics", "Physics in animation", "Physics in pictures"[26,27,28,29,30]. After reviewing and studying them, the question arises as to why we can't create such sites. Uzbekistan recently celebrated the 29th anniversary of the Uzbek language becoming the state language. It is designed to teach subjects in Uzbek in the open online distance learning course [www.khanacademy.org](http://www.khanacademy.org), which is a great gift for our youth. But here, too, the question arises as to when we will create a site that will need to be translated into other languages as well. It is possible to create such a resource, but it is a problem to raise funds from large companies as a non-governmental organization. I think this issue should be discussed by many. Because the need to translate our science site into other languages will in itself contribute to the development of the Uzbek language, as well as the image of Uzbekistan. Based on the above analysis, we continued our research and began our research [1-19, 20-30].

## II. LITERATURE REVIEW

We reviewed a number of created online applications, programs and want to review the programs created by the Yenka company [21]. They include sections of physics, chemistry, mathematics and really help to draw a graph of the process, use animations that display the processes of nature, experiments, experiments and models that explain the relationships between physical quantities, between the chemical properties of substances, between the parameters of mathematical formulas(<https://cxem.net/software/yenka.php>)[21]. The Yenka software package was created for the purpose of carrying out a variety of experiments in programming, electricity, physics, mechanics, chemistry, mathematics and many other subjects. This package consists of four parts:Yenka Programming, designed to teach object-oriented programming without reference to any particular language. As objects can be used 3D-models, animations, images, buttons, etc., and all connections are built at the level of block diagrams.Yenka Mathematics, which is subdivided into modules for working with three-dimensional shapes, with coordinate systems and with statistical shapes.Yenka Science, designed to conduct experiments in the fields of sound and light, electricity and magnetism, force and motion, inorganic and physical chemistry, analog and digital electronics, electrochemistry.Yenka Technology, which is actively used among children and adolescents - electronics lovers and robot creators. This block contains the following subsections:

Electronics. Design and simulation of electronic circuits. Libraries include over 150 components for both analog and digital electronics. Editing of component properties is supported.Basic Circuits. A stripped-down version of Electronics, which allows you to build circuits using only basic electrical components (batteries, switches, LEDs, lamps, resistors, buzzers).PCBs. Converts designed schematics to 3D representations of printed circuit boards. Supports autorouting and auto-alignment of components, placing the board in the case, integrating with CAD applications, connecting to mechanical components (motors, gears, etc.), 3D simulation of the board by interacting with the knobs and buttons of the device, exporting the results as files formats of milling machines.PICs. Programming of real-life PIC



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and PICAXE microcontrollers. Procedures are written in a simple visual editor using block diagrams, virtual program verification and device firmware are possible, communication with Electronics and PCBs modules is supported[21].

The study of the work performed on Statistical Physics helped us to familiarize ourselves with the literature on this topic, we got acquainted with books on Statistical Physics and Thermodynamics, looked at books, articles, scientific papers on the Internet and came to the conclusion that among online resources in this area there is a noticeable predominance of books. articles, brochures, monographs, but among the Internet resources there are very few animations, online resources, sites for teaching the subject and topics of Statistical Physics, although there are many online resources and programs for teaching physics on the Internet called "Open Physics", "Live Physics", "Physics in animations ", "Physics in Pictures " and other applications and programs, in addition, Yenka offers simulation of physical processes in Optics, Electricity, electrical circuits, Kinematics of motion, oscillations and waves, etc.[21,26-29]. She offered us the Crocodile Physics program in physics for modeling physical processes, for representing them with the help of models and program simulations close to their origin in nature. But the section of physics "Statistical Physics" remains on the sidelines and to enrich the work done, we decided to create a site for teaching this section remotely[1-5, 8-10,12-15]. To do this, we had to choose a CMS or LMC system to create a website. We reviewed the existing systems and platforms for distance learning and website creation and chose Word Press among them, studied the literature on this topic, reviewed its capabilities, studied plugins, created a menu for studying topics in Statistical Physics [8,17-21].

### III. METHODS/METHODOLOGY

These studies were carried out using methods of analysis and synthesis, comparison and combination of methods of pedagogy. The methodology for creating and using a site on Statistical Physics includes methods for searching for materials, researching research work done in this area, works on creating animations, sites on physics, including literature on this topic, an extensive review was made by comparing the combined and traditional teaching methods, the Hi-quality method.

This research used many methods: statistics, analysis and comparison, comparison were used[13].

### IV. DISCUSSION

The teaching of fundamental physics is aimed at explaining the essence of natural phenomena, the laws of nature, optical, atomic phenomena, experiments and effects in these areas. In these cases, the computer is used as an additional channel providing information that cannot be conveyed by verbal methods, by the method of conversation or lecture, by means of a thought experiment, representation in a physical image of phenomena, since they occur in nature. Everything here is based on the students' worldview, on how they understand the teacher, how they perceive his explanation, what reserve of his thesaurus they perceived when explaining what they memorized, it all depends on their acquisition of knowledge, understanding, presentation and perception [1-5, 8-10,12-15]. And in cases of misunderstanding and in the difficulty of presenting difficult to assimilate or hard-to-reach topics or processes of nature, phenomena, physical experiments and effects, we can connect a computer tool, electronic resources, sites, the content of its materials in the knowledge of the processes of nature, and on the basis of them and the very ideas about nature, to show students an approximate real picture of the world, an evolutionary idea of the structure of the atom, particles and the whole world as a whole. The materials on additional learning that we have considered do not completely include the knowledge and elements of Statistical Physics, and we created animations on the laws of physics by means of a computer, software applications, online resources, they were included in the website we created, which proves atomic physics for learning online , kinematics and other sections of general physics, software applications with animations, animation frames have been created enough, but among these materials there are few online applications, animation in statistical physics, which can be applied in life, for the distribution of social phenomena, biological features of human development and in others spheres of life. Physics, on the basis of distribution laws, reveals a probabilistic approach to solving a particular distribution problem according to the laws of which social life is built. But unfortunately, there are few online resources and sites in this area, although there are animations created for some experiments, and there are no sites created entirely for training a course in Statistical Physics. And proceeding from these beliefs, from the hypothesis that combined teaching of traditional teaching with elements of using site animations and its very application in Statistical Physics improves the effect of teaching, assimilation of material, distribution of molecules by velocities and energies. Site creation has become very popular these days. The Ministry of Higher and Secondary Special Education, the Ministry of Public Education, the Ministry of Preschool Education of the Republic of Uzbekistan pay great

attention to the creation of school sites, the creation of sites of kindergartens and preschool institutions. There is a growing demand for distance learning through educational content in the university, the use of Moodle, WordPress systems. In doing so, Word Press has proven to be one of the most user-friendly systems[16-20]. Firstly, it is convenient and easy to learn, and secondly, the sites he created are modern. As we know, the creativity of the site, web page is developing rapidly, despite the fact that in this area can be used many programs, Dream wear and others, PHP programming, as well as HTML, FrontPage, in terms of convenience, modernity, Word Press stands out for the creativity of the new generation site[17].

To create a website, it is enough to know how to work with WordPress, Moodle, even if you do not have a deep knowledge of HTML, PHP today, which is a necessary software system, especially for users who have difficulty programming. To create a site on these systems, you need to know how to load systems, the contents of their catalog, the possibilities of creating a site, what sections to use to create a site, where to put information and how to install an image. Simple sites can be implemented on these systems, even if you do not know programming[16-21, 22-30]. It is not necessary to have software knowledge to register on the site, students study the reports on the subjects on the site, then solve the tests and save the results obtained on them, because the system can offer forum, Certificate and other ready-made elements. However, in carrying out more complex processes, of course, we have to turn to the commentary or help of a programmer. LMS-learning is a management system, one of the systems of remote management of education. Examples of this system are various platforms: Sava, Moodle, Open LMS, eFront and others. Through their widespread use, it has been found that it is preferable to use more eFront in the business system and to use the Moodle learning platform in the educational process. Moodle is a distance learning environment, with the help of which you can create a personal account, browse the content, organize lectures, practical exercises, tests and glossaries, literature, and its elements. they can be presented to students for study. Moodle is able to display test results. CMS-content is a management system that manages distance learning using learning content. An example of such a system is the Word Press system, which we would like to suggest using in the education system. Word Press is a CMS, or Content Management System, a system that manages the learning process through learning content. The system is remote and can be used to download science reports and conduct testing to ensure that students master each one. To work with this system, we must first install it on our computer. To do this, we can view and select ready-made XAMP software packages from the Internet and install them on our computer. The XAMP software package includes a server as well as PHP programming and a MySQL database. PHP is a programming language. MySQL is a database. Successful installation and commissioning of this system requires little technical knowledge from the user. If programming knowledge is aimed at certifying students' knowledge of the site when working in WordPress, Moodle, it is necessary to create a program in PHP, based on which if a student scores above 70%, the certification will not be issued otherwise [6,11,17,21-24]. If some versions of Moodle have a certificate template included, you can use such features to limit programming. Otherwise, you will need to program in PHP. We use it to create applications. WordPress has a variety of servers and a combination of PHP and MySQL. We will teach you how to download a Denver server and work with XAMP. First they are downloaded to the computer. As a result, the Denver Start, Denver Restart, and Stop Denver colored icons appear on the screen [13,16-17, 21-30].



Figure 1. Location of the Denver assembly on a computer desktop.

When you start Word Press, its trilingual versions are available to the user. If we get the Uzbek version, we will have to create fields such as Topics, Sections and the content of the site itself. To do this, we will create sections such as

"Home", "Contact us", "Physics sections", "Physical news", "Physics yesterday today and tomorrow". In the Topics field, we will need to write the title of the topic and its content until the last topic, and set the content of the topic with pictures related to it. Start Denver will be launched to implement the created site.

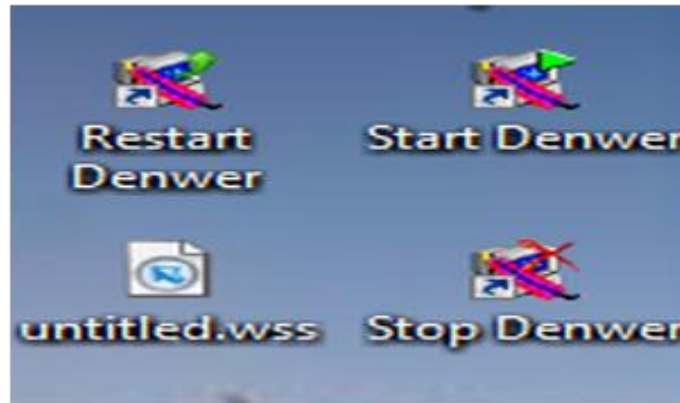


Figure 2. Start, Restart, Stop views of the Denver assembly on the computer desktop.

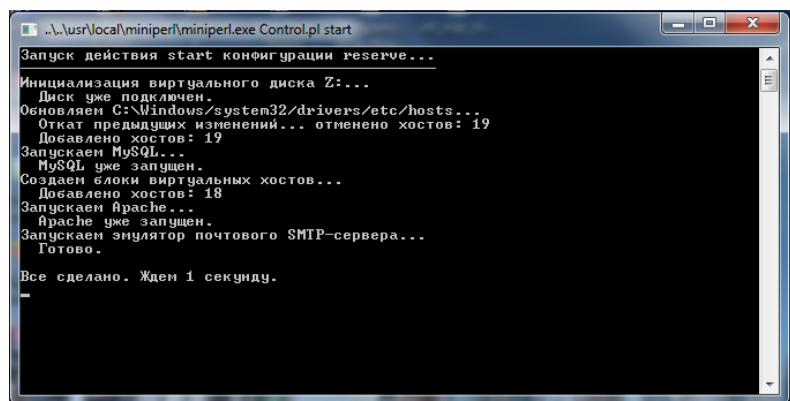


Figure 3. We use the server via StartDenver.

Then we call our created localhost file. It requires your browser to work well. We will launch it using "Update". The screen displays the themes of our site, its content with pictures, and more. Now you can enrich the themes of your site and install other areas, fix bugs and launch the site again. Themes and their names can be embedded in the WordPress system. The parent theme ("Roditelskayatema") is placed at the end. They are matched with text and a picture that matches the text. A localhost must be created on the system to access the site. For example, the path can be localhost / statistikfizika.uz or localhost / fizika.uz. WordPress helps you to create and teach educational content online through the site. For example, we can create content for a computer science course or a physics course. We can put the content of science topics, the full content of pictures and graphs, the formulas and instructions for working in the program as a content element in the system. Restart Denver is used to reboot the system, and Stop Denver is used to restart the system. WordPress allows us to create "physics at your fingertips" and teach "Statistical Physics" or "Information Technology" and "Computer Science" on the site via a mobile phone. Now let's choose one subject and consider teaching "Statistical Physics" on its basis. We can find enough textbooks, manuals and books on the Internet, educational resources for teaching the subject of "statistical physics". There are e-textbooks, textbooks in pdf format. This is at least an animation of a few science experiments. However, as in other disciplines, there are not enough animations, sites, animated boards for the study of this field, but the information in Russian, the literature, and the information in Uzbek are almost non-existent. Because of this, we tried to organize the teaching of "Statistical Physics" in WordPress. In addition, "statistical physics" is a science that calculates the motion of a particle, the probable values of the coordinates of its location, which in turn is based on the experiments of Nobel Prize-winning scientists, scientific formulas and formulas for the functions of global distribution. Statistical physics studies the velocity distribution function of molecules, the energy

distribution function of molecules, and other distributions, such as the Maxwell distribution, the Boltzmann, and Fermi Dirac distributions. It also calculates the velocities of molecules as a function of energy distribution. The Maxwell distribution is theoretically explained by the following formula:

$$\rho v_x = \left(\frac{m}{2\pi kT}\right)^{\frac{1}{2}} \exp\left(\frac{-mv_x^2}{2kT}\right) \quad (1)$$

Molecular velocity distribution function:

$$f(v) = \frac{dn}{n dv} = \frac{4}{\sqrt{\pi}} \left(\frac{m}{2kT}\right)^{\frac{3}{2}} e^{-\frac{mv^2}{2kT}} v^2.$$

Statistical Physics studies the velocity distribution function of molecules, the energy distribution function of molecules, and other distributions, such as the Maxwell distribution, the Boltzman, and the Fermi Dirac distributions. Also, the velocities of molecules calculate the distribution function by energy values [1,2,3,4,5]. The Maxwell distribution is theoretically explained by the following formula (2).

Therefore, in the WordPress system, it is possible to determine the level of mastery of the content of lectures by studying the lectures on the subject of "Statistical Physics" remotely, creating a test to determine the mastery of its content. That's why a test is created for each report. Distance learning is modular, that is, it is taught separately [1, 4-6, 9-10,12-15]. If the first lecture is mastered, that is, if the test given to him after passing it is positive, he will move on to the next lecture. The training is step-by-step. If the material is mastered positively, it will move on to the next stage. It is advisable to use audio and video and animation in distance learning. So let's look at the animations created for the distribution functions:

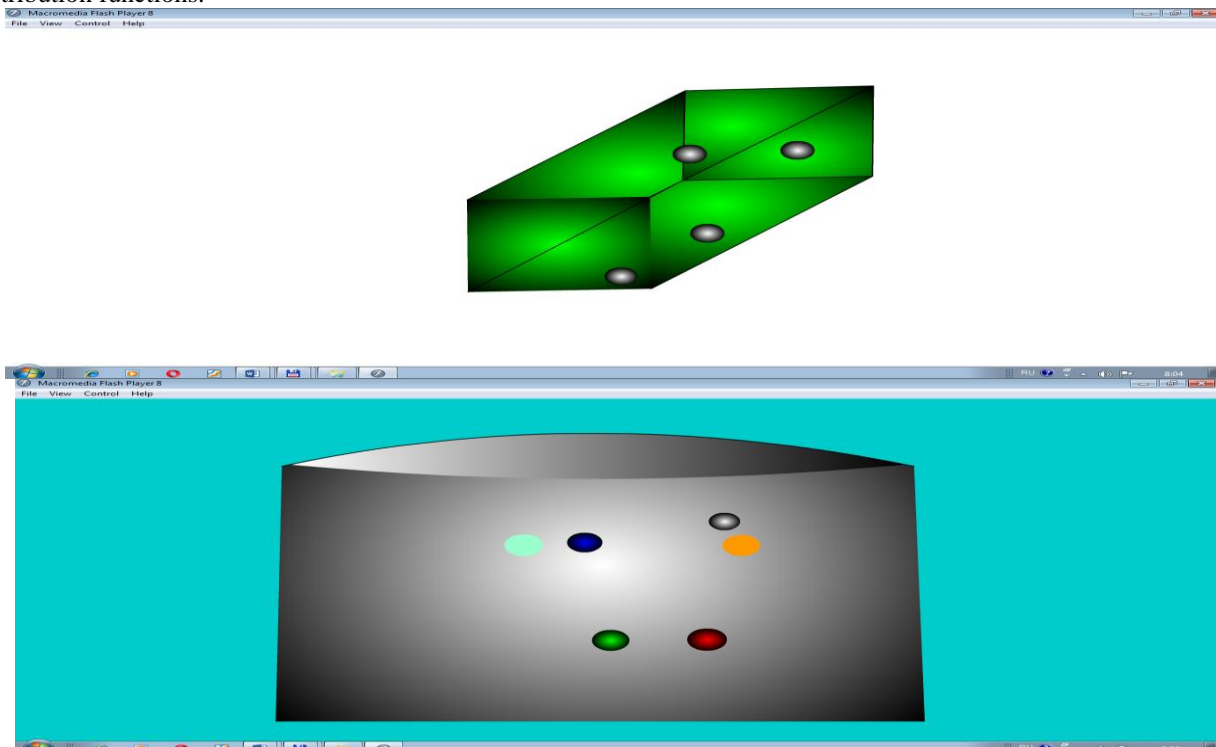
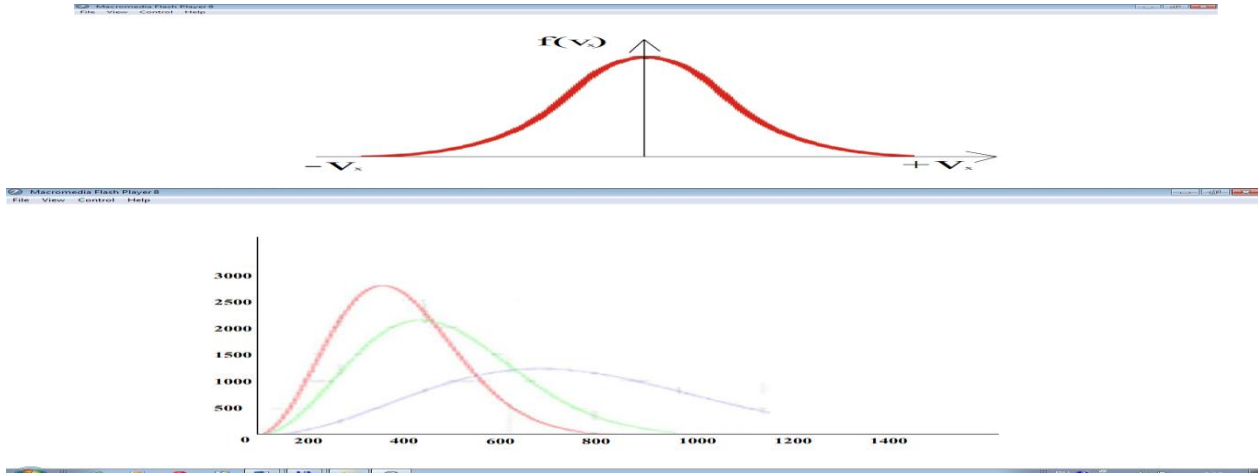


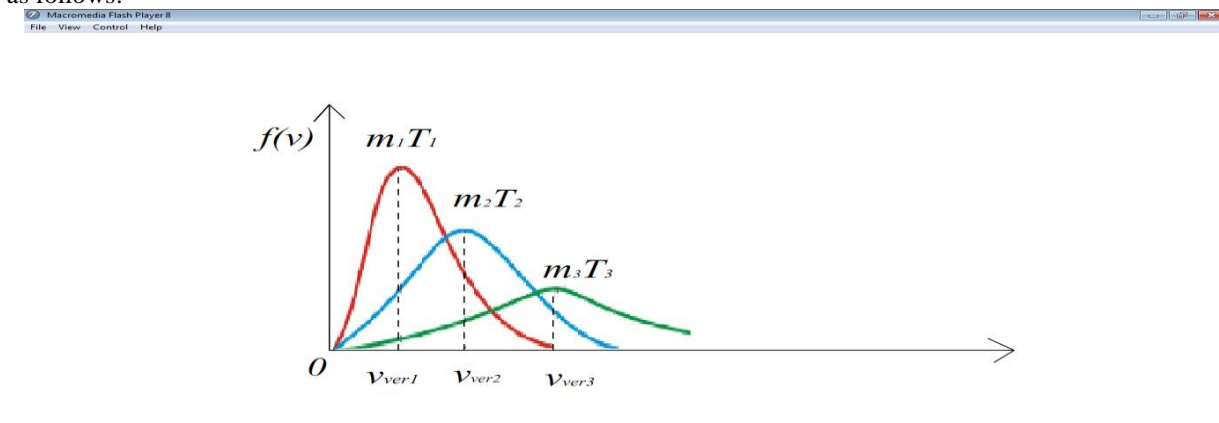
Figure 4. Motion of molecules. The distribution function is displayed in motion.

These kinds of animations were created by us and inserted into the site we created.

The Maxwell distribution and other distribution graphs are taught theoretically and demonstrated. Then the graph is drawn flat and displayed.



we bring you pictures of some more animations and you can find them on our site [1, 7-8,9,10,12,13,14,15,16,17]. Thus, the ability to display other distribution graphics in animated form is realized on the site. The change in temperature shows the shift of the Maxwell distribution graph towards higher temperatures [1-5,8]. The final show of his animation is as follows:



This figure we take from animation, which we created. By doing this and analyzing the creation of the site, it is not difficult to determine that in foreign countries, in Russia, sites have been created for specific disciplines, in which the Internet has helped us. That is, the process is very advanced, there are a variety of language learning sites, in Russia there are sites called "Live Physics", "Open Physics", "Physics in Animation", "Physics in Pictures", but among them "Statistics" Physics[26-29] ", which proves that there is a great need for physicists for the site we have reviewed and created, and that physics has contributed to a complete solution to the problem of site creation. The animations, videos and audios posted on our Uzbek language site also show its uniqueness. It is no exaggeration to say that our site is a new generation of sites [1-5,8-10,12-15].

Our work shows that in Uzbekistan, too, the site has further developed creativity, on the basis of which there are sites for online teaching of English and Russian languages to our students and Uzbeks abroad, as well as physics, kindergarten nurses for preschool children and it is necessary to create sites in the above-mentioned areas in order to lay the groundwork for working with parents at home, step-by-step preparation for school. This will allow the site to develop creatively and increase the number of e-learning sites, as well as national sites that teach in Uzbek, and our own sites. Statistical Physics provides training in Maxwell, Boltzmann, Maxwell-Boltzmann, Fermi-Dirac distribution functions and the implementation of this process online [1-5,7,8-10,12-15]. After reading the lectures, watching the animations and rhymes, the tests are solved and the child with a good score gets a good result. In this way, the subject of "Statistical Physics" can be studied by a student at home with the help of a mobile phone. Experimental work is underway to provide this course on the basis of mobile education, as well as on the Internet or local area network via computer. [6,11,17,21-24]. We recommend the use of the created educational content for students studying physics. The teacher can determine the mastery of students based on the results of tests [1-8]. We believe that the creation of sites for higher education, which provide information on the natural sciences, teaching on specific subjects, language,



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will lead to good results. Students are at home they can acquire knowledge on their mobile phones and computers via the Internet, which contributes to the training of specialists who meet world standards [8]. We offer online resources for teaching English and Russian, as well as sites designed to solve problems in specific disciplines, to solve problems together by creating online resources, to solve problems of team and group work. It is advisable to use the created site "Statistical physics" after teaching this course in higher education. It is advisable for the Ministry of Higher and Secondary Special Education to teach such courses [1-5,6-7, 8-17, 21-30]. It is recommended to use the Ministry's website after the course has been taught at the university.

## V. RESULTS

Then we used distance learning in teaching the subject, chose control and experimental groups and conducted traditional and distance teaching of subjects, conducted an experiment, and according to the results of the experiment it was revealed that the combined teaching of traditional and distance learning through the website on Statistical Physics gave a positive result and an indicator for processing the results according to the Chi-Quadrat method was high. As a result, we made the following conclusion that the predominance of the combined method in teaching, i.e. traditional learning using the site or distance learning through the site give the highest result and the He-square criterion for processing the results is higher than critical. This is proved by the high rate of our method [13].

## VI. CONCLUSION

We encourage you to use the online resource created above to help young people build confidence and pride in their country through the use of online resources, as well as to spend their free time learning specific sciences and languages online. Internet enthusiasts and young people who like to work on online resources should spend their free time studying specific sciences. Students and pupils may find it interesting to study science and foreign languages at their fingertips on tablets, phones or in front of their computers. Assimilation of information is determined by an online test. The site will include a process that demonstrates student mastery. In addition, if the mastery of students is higher than 70%, the application created in PHP, which carries out the certification, is also installed on the site and supports the work. This gives us an idea of how students can work independently through this site. Another important aspect is that with the site we have created and other such resources, we will fill the hyper-space and reveal new aspects of directing our youth to science. Filling the void with materials that challenge science will help them grow into mature people, free from popular culture and hyper-attacks. The site created for teaching "Statistical Physics" was used in teaching bachelor students at Namangan State University for students of the Faculty of Physics and Mathematics. Higher results were obtained when teaching students using the site, its materials. Self-study was organized, as well as feedback from the teacher was introduced. Control and experimental groups were selected to determine the level of effectiveness of this type of training. The results were processed using the He-square formula. The result of the criterion was higher than intended. As a result, we can conclude that the most acceptable of the methods of such training is the use of traditional training with elements of using the site with the execution of tasks on an actual basis, as well as the performance of tasks using traditional types of student knowledge control and virtual tests in a combined form [13].

## VII. ACKNOWLEDGMENTS

The created work was handed over to the Property Agency of the Republic of Uzbekistan. For which the certificate was issued. For the creation of the site, thanks were received from Namangan State University, from institutes where lessons were conducted using the site as experiments and from the Ministry of Higher and Secondary Special Education.

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