ACADEMICIA
An International
Multidisciplinary
Research Journal
(Double Blind Refereed & Peer Reviewed Journal)

REQUIREMENTS FOR STUDENTS FOR THE INTRODUCTION OF SMART TECHNOLOGIES

S. B. Muranov*

*Teacher,
Samarkand State University,
UZBEKISTAN

ABSTRACT

The article discusses the technological features of the introduction of active SMART technologies, the requirements for students to introduce SMART technologies, the features of the organization of different stages of the lesson on the basis of SMART technologies, the use of various multimedia teaching, the "SMART Board" and auxiliary tools.

KEYWORDS: *SMART Technology, Active SMART Technology, Modern Information Technology, Educational Technology, Creative Thinking, SMART Board.*

INTRODUCTION

More attention is paid to the introduction of active methods and technologies of teaching in modern higher education institutions. The peculiarities of the development of the personality of students in many ways determine its educational success, the peculiarities of mastering the components of educational activities, the intensity of the formation of educational skills and abilities, qualifications.

At the same time, there is a conflict between creativity in teaching and technological efficiency in higher education systems. On the one hand, the requirements of modern situations are such that a simple predominance of a certain amount of knowledge is not enough, constant readiness for changes, readiness for creativity is necessary. Creativeness education is becoming an actual target component of modern education. On the other hand, education is always a specific technology. But in life, the spheres of activity, in which the reproductive principle dominates, are constantly decreasing. When preparing students for the future, we must prepare them for creative activity. Creativity implies a new look, a new solution, a new approach. Creativeness is the introduction of something new in solving everyday tasks [2, 16-page].

Changes in educational technologies are associated with the formation of educational movements based on universal and, of course, national values in students established by the state standard of compulsory education of the Republic of Uzbekistan and the objectives and objectives of modern higher education. Active use of SMART technologies in higher education is one of the conditions of SMART technology to increase the creativity of students in the age of digital technologies by using digital technologies.

The relevance of this problem lies in the fact that, on the one hand, the need for the formation of various compartments of higher education institution students, on the other hand, adequate means find for the implementation of the basic requirements of the second generation standards based on health care.
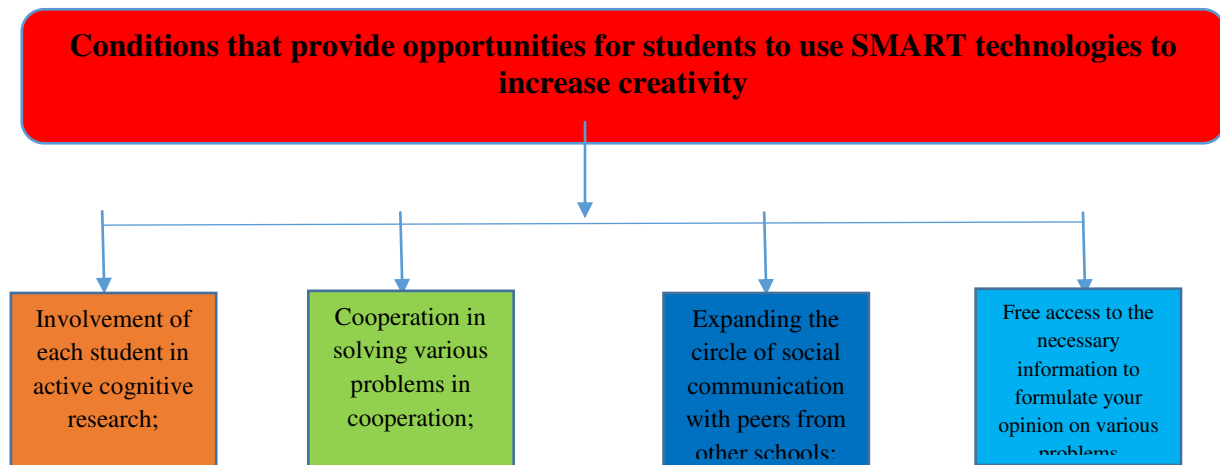
Solving these tasks will be possible only with an individual approach to education and upbringing. At the same time, the activity of the educator is defined as cooperation with students, creation of a favorable educational, development and educational environment for the student. Before the teacher, it is the task of actively using SMART technologies to develop the creative abilities of the student personality [1, 33-th page].

The use of SMART technologies allows you to develop a system of the following tasks and exercises:

- to create an innovative model of the educational process with the introduction of modern information technologies in order to manage the quality of Education;

- Identify and create optimal conditions for the formation of educational skills in the process of using SMART technologies;

- develop effective methods and techniques that help develop creative thinking in young learners, as well as forms of work;

- mastering different methods of educational and cognitive activities with different sources of information;

- optimization of the educational process, expansion of the information environment;

- create conditions for maintaining the health of students in the process of using interactive SMART technologies.

One of the most important tasks at this stage is the mastering of information and telecommunication SMART technologies for the formation of educational and general cultural skills in the performance of these students with the necessary information [3, 54-55 page].

It is known that only with the use of traditional methods of teaching, this problem cannot be solved, it is necessary and created conditions that provide the following opportunities in students: (picture 1)

Conditions that provide opportunities for students to use SMART technologies to increase creativity

| Involvement of each student in active cognitive research; | Cooperation in solving various problems in cooperation; | Expanding the circle of social communication with peers from other schools; | Free access to the necessary information to formulate your opinion on various problems |

1-picture. Conditions that provide opportunities for students to use SMART technologies to increase creativity

Such work can be done at different stages of the lesson by the method of creating a problematic situation, the method of explaining the new material, the form of strengthening the learned, the form of homework verification, the method of the lesson. Verification of knowledge during the course of the lesson is a must regardless of any form of education. The combination of video, audio and text material, comprehensive coverage of the topic provides deeper access to the material, helps to understand it creatively, increases educational motivation [4, 64-page].

Forms of the use of SMART technologies can be different - these are ready-made electronic products, multimedia presentations, Internet resources, the use of SMART Board software for interactive whiteboards, the use of smart technologies in combination with modular training [5].

The use of information and communication technology in tertiary institutions helps to:

- increase cognitive interest in the subject;

- contributes to the growth of students' achievements in science;

- allows students to show themselves in a new role;

- develop skills in independent production activities;

- contributes to the creation of a success situation for each student.

SMART technology works for a specific student. The student takes everything he can learn at speed and works with the optimal loads for himself. There is no doubt that SMART technology is a new emerging technology, which should be introduced into the learning process more broadly.

The application of SMART technology in the teaching process implies that the student is capable of the following.

- processing of text, digital, graphic and voice data (assignments, tables, diagrams, drawings, pictures, etc.) with the help of appropriate processors and editors for the preparation of didactic materials);

- Create slides on this learning material using the MS Power Point presentation editor and display the presentation in the lesson;

-take advantage of the software products available in your discipline;

- Organization of work with electronic textbooks in the lesson;

- use of educational programs (teaching, correction, control);

-search for the necessary information from the Internet in the process of preparation for classes and extracurricular activities;

- Organization of work with students on the use of the necessary information on the Internet directly in the process of teaching sessions;

- Development of shells or independent tests and computer tests using ready-made programs [7].

Information SMART technologies allow the following:

- To create an open education system that will provide each students their own way of learning;

- Formation of systematic thinking of students, radical change of the organization of the educational process;

- Rational organization of students' cognitive activity in the educational process;

- The use of computers for the individualization of the educational process and the reference to new cognitive tools in principle terms;

- Study of phenomena and processes in micro and macrocosm within the framework of complex technical systems using computer techniques and modeling;

- represents a variety of physical and chemical processes that occur on a scale that is convenient to learn, in fact, at a very high or low speed, electronic textbooks help to solve didactic tasks, such as mastering basic knowledge in science, systematization of acquired knowledge;

- psychological adaptation with the help of computer to the environment of independent work with educational materials, formation of self-skills, formation of educational motivation, providing educational and methodological assistance to students in independent work on educational material, providing a comfortable educational environment. Find ability to independently select sources of information and in use.

The most effective forms of presentation of educational materials in the educational process include multimedia presentations. This form allows the student to present the material in algorithmic order as a system of accurate data images filled with a wide range of structured data. In this case, a variety of channels of perception are involved in students, which makes it possible to place information not only in the form of an associative, but also in the memory of students.

The use of presentations is recommended at any stage of studying the topic and at any stage of the lesson session: explaining, strengthening, repeating, controlling the new material. At the same time, the presentation performs various functions: a teacher, a working tool, an educational object, a collaborative team.

The use of SMART technologies in the course of the lesson allows the following: saves time, provides the availability of information on the subject, creates the opportunity to communicate with each student and gives the opportunity to develop the clarity of the presented educational material, spatial thinking in the subjects. the natural and mathematical cycle increases the efficiency of the data obtained. [8].

The active use of SMART technologies allows the student to increase the educational motivation by directing active communication with the computer, the diversity and diversity of information, the acquisition of knowledge to success, using the background of communication to educate the circuit and peace of mind. The effective use of SMART technologies, pedagogical skills and the skilful combination of computer technology opportunities in the lessons will allow the teacher to improve the quality of knowledge of students.

Modeling a lesson using SMART technologies allows the teacher to design lessons of a creative and cognitive type.

However, for the introduction and dissemination of this experience, a sufficient level of knowledge of the digital technologies, psychological and pedagogical competence of the educator is required.

The use of active SMART technologies allows students to focus their attention on the learning process at different stages of the lesson. They are as follows:

Motivational stage. Students will often have to "solve the puzzle", study the subjects, for this it is much more convenient to do the objects really by "changing the location". Then even the weakest or not-minded student will be involved in this process. That is, it is necessary to increase creativeness.

To check if the topic mentioned has been mastered. The process of acquiring knowledge is much faster and more effective if the educator gives the students the opportunity to view and re-master various media files, download the necessary material in advance.

Dating. Adding students to work directly with the proposed material: adaptation, marking, moving information objects, modeling and creating objects and other actions will make it much faster and easier to master any subject of the educational background. To save in memory, the Tin hanger is a bright(colored) material and a material that constantly enters the field of activity.

Combine the learned. Work with drawings, tables, graphs, algorithms is much more simplified. It is difficult and time-consuming to reproduce them with the use of whiteboard, it is impossible to put the necessary characters on the screen through the projector. SMART technology simplifies this time-consuming process. Thus, with the help of a scanner or camera, the picture is transferred to the slide.

One of these tools is the SMART board interactive whiteboard. It is already customary to conduct lessons in higher educational institutions using interactive whiteboards. And he fully justifies himself.

First: it is difficult for students to focus on monotonous and unnecessary work, in the process of working with interactive whiteboard (activity of emotional color) they can be attentive for a long

time. If the student actively communicates with the object, the stability of attention will significantly increase.

Second: the impact of innovation appears. This is especially necessary to work with students who are difficult to master.

From the tip: the interactive whiteboard allows the educator to use different channels of information reception, creating a transition from the student's hearing load to visual and tactile.

From the quatrain: a quick change of activity allows fatigue to be delayed.

Fifth: creative thinking in students is formed at the stage of specific operations, that is, intellectual operations, but can be carried out with the help of real objects, it is possible in the interactive whiteboard.

Sixth: the SMART Board allows the teacher to accelerate the speed of the lesson and involve the students of the whole group in the learning process [10].

The use of the creative capabilities of the "SMART Board" in the process of reading allows the dominant of the educational process to express a special attitude to the student's experience, his studies. The student becomes a free man, able to independently acquire knowledge with the help of an interactive whiteboard.

Learning through SMART technologies is a springboard for all subsequent stages and areas of study. The use of interactive SMART technologies is able to make this trampoline more efficient and versatile, opening many doors leading to the development of creative thinking by stimulating and understanding learning. SMART technologies provide very powerful external tools that enrich mental and physical labor not only with words and numbers, but also with visual images and hyperlink.

REFERENCES:

1. "SMARTBoard elektron interaktiv doskalari - ta'limdagi yangi texnologiyalar" sayti materiallari - http://www.smartboard.ru.

2. "Ijodiy o'qituvchilar tarmog'i" o'quv portali, 2006. - http://www.it-n.ru/communities.aspx?cat_no=5025&lib_no=5430&tmpl=lib.

3. Ta'lim uchun elektron panellar -http: //edu.panaboard.ru/index.htm.

4. Mamatov D.N., Bekchanova Sh.B., Saidova B.N., Abdullaeva D.N., Fayzieva G.U. Enhancing the participation of students and faculty in distance learning using blender learning and flipped classroom technologies in the development of pedagogy through digital technology // PSYCHOLOGY AND EDUCATION (2021) 58(2): 4910-4917. Америка. P 4910-4917.

5. Mamatov D.N, Bekchanova Sh.B Oliy ta'lim tizimida raqamli texnologiyalardan foydalanib sirtqi ta'limda masofaviy o'qitishning «blended learning» texnologiyasidan foydalanish // Raqamli iqtisodiyot: yangi O'zbekistonni yangi texnologiyalar, platformalar va biznes modellari orqali rivojlantirishning yangi bosqichi: mavzusidagi xalqaro ilmiy-amaliy konferensiyaning materiallari. 3-qism. 26 fevral 2020 yil Toshkent, b 88-93.

6. Маматов Д.Н., Бекчанова Ш.Б. Увеличение количества людей с высшим образованием с применением методов дистанционного обучения. Профессионально-личностное развитие будущих специалистов в среде научно-образовательного кластера. Материалы 14-ой Международной научно-практической конференции. 28 мая 2020 года Казань. с 271-276.

7. Mamatov D.N., Bekchanova Sh.B. Masofaviy ta'lim jarayonlarini raqamli texnologiyalar asosida individuallashtirish metodikasi. Monografiya- Toshkent, 2020. b 131.