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Use Of Innovative Technologies In Teaching Practical Lessons From The Biophysics Module (In the case of medical universities)

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Abstract. In the article, the issues of modernization of the content of taught modules and raising the efficiency of education to a new level of quality are reflected in the article. It describes the technologies developed by the authors for the practical training classes taught in this system. Key words: innovation, educational technology, pedagogical process, management, development.

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Introduction

Modernization of national medical and pharmaceutical education in our country, introduction of international educational standards in this field, conducting comprehensive scientific research on current problems of public health protection, as well as providing spiritual and moral education to young people who are studying consistent measures are being taken to create an effective system1.

In order to educate an intellectually developed, broad-minded person who strives to create new things, medical education itself should be rich in innovations, and the spirit and motives of creativity should prevail in its content. In this case, from meeting the requirements of the subject of innovative activity to understanding and forming the complexity of the needs of the subject of innovative activity, it expresses the needs and interests of the subject in creating and mastering new things that arise in the process of practical activity. It is necessary. Today, the main goal of modernizing the medical education system and raising the efficiency of education to a new level of quality is to ensure that our students acquire modern knowledge and profession, and take a worthy place in the life of our society. Today, it is desirable to conduct practical training in the medical education system at the following stages:

- formation of innovation, design of educational process;
- to test innovative ideas with a group of creative teachers, to conclude practical work that has been tested by experience, to make a decision on the large-scale application of the innovation and to implement it on this basis;
- search for new ideas: creation of an information bank, theoretical-practical seminar on the development of innovative processes, organization of trainings and preparation for their application;

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- analysis of introduction of innovation, critical view, organization of events and implementation of innovation in educational system, etc. It is important to create and implement a mechanism for managing the quality of education through a system of indicators. Therefore, it is necessary to develop the development of such important fields as science, education, small business and private entrepreneurship, medicine, culture and art, which are taking an increasingly large place in our lives today, with the participation of scientists. In order to reform and improve the educational system, increase the impact of education, apply innovative technologies to the teaching process, find answers to these and similar questions, professors and teachers working in the Termiz branch of the Tashkent Medical Academy and officials of other fields are being involved. It is recommended to use innovative technologies in the process of teaching practical training in the Termiz branch of the Tashkent Medical Academy and to use advanced pedagogical methods of professors and teachers to improve the quality of teaching. 2

Pierboard technique. Pirbord is derived from the English word "Pin" - fixing, "board" - a board, and it allows you to systematize and group ideas related to problem solving, to form opposing ideas in a team or individually. First, the teacher poses a problematic question and asks students to express their thoughts. It is the beginning of direct or mass brainstorming. Active students are encouraged. Then the ideas are analyzed, discussed, evaluated and the most effective idea is selected. This main conclusion is written (fastened) on separate pieces of paper and on the board.

In this technology, after gathering all the opinions on the problematic question, the group representatives go to the blackboard and consult:

- mistakes or repetitive thoughts are removed;
- controversial points are clarified;
- thoughts are systematized according to certain signs, divided into groups;
- their mutual relations are determined using lines or other symbols. Single or opposing opinions of the team are developed.

Veer technology. It is used in the study of topics of a complex, problem nature. In this technology, full and brief information on the subject is given first. The main problematic questions on the topic are separated and discussed in separate small groups, that is, positive and negative aspects of the problem, achievements and shortcomings are determined. This interactive technology forms critical, analytical, clear logical thinking and creates conditions for students to express and defend their opinions orally or in writing. Active participation of small groups and each student on specific questions of the topic with the help of Veer technology. provided and their knowledge of the question is assessed.

FSMU technology. This technology helps the listeners to defend their opinions, to think freely and to convince others of their opinion, to debate, to use the acquired knowledge.

to analyze the language, to evaluate their mastery and to teach the listeners the culture of argumentation. This technology is implemented by asking the listeners to clearly and concisely express their thoughts on paper, stating the supporting evidence or negative opinions.

F – express your opinion.

S - give a reason for your statement of opinion.

M- Give an example that explains the reason given.

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U - Summarize your opinion.

In FSMU technology, a question is asked on the topic. The environment of FSMU technology and their mission are explained to the students. Set a specific time for completing the task, for example 15-20 minutes. Each student is required to complete the assignment personally. Monitors students' activities, answers their questions, directs and gives advice. Identifies students who are writing correct decisions or opinions during the observation period. After collecting the answers, he reads the opinions of the students who were found to be relatively correct during the observation period, makes additions and gives complete information on the question. This technology can be used to solve controversial issues, conduct debates, or at the end of a training seminar (in order to find out the opinions of the audience about the training seminar) or after studying a section based on the curriculum. can be applied.

Scarab technology. It is one of the interactive technologies of teaching, which can be used at various stages of learning educational materials. This technology utilizes student experience, enables reflective observation, and provides opportunities for active creative inquiry and thought experimentation. This technology is implemented based on the following sequence:

- initially, the essence, structure and content of the educational topic is determined based on the "brainstorming" technology;
- connections, connections, and basic concepts between the questions studied on the topic are determined;
- each question of the subject is studied in depth, students are given the opportunity to come up with new ideas on the subject.
- The teacher completes the topic and consolidates the acquired knowledge.3 Thus, the use of innovative technologies in the teaching of practical training creates a healthy creative environment in the system of medical education, raises the quality of teaching to a new level, the outlook of students, creates a foundation for the development of thinking, independent observation skills. Through the above technologies, the skills of concentration, free observation, formation of reliable decision-making skills are developed, and group activation is achieved. Innovative technologies educational system

is directed to solving the collective tasks of the district, and represents the joint activity of teachers and students. They are done step by step. In this case, based on specific methods, methods and tools, an effective management system is directed to the goal. It will help to achieve the desired results.

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