



PROBLEMS OF TEACHING EXACT SCIENCES IN VOCATIONAL SCHOOLS

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Abstract: This article focuses on the current issues of teaching specific sciences in professional educational institutions. Attention is also paid to the content of reforms and legal documents implemented in the field.

Keywords: exact sciences, professional education, professional development, algebra, number theory, economics, legal documents

The state pays special attention to the issues of improving the continuous education system and training highly qualified personnel, openness and quality of educational services in accordance with the modern needs of the labor market. For this purpose, in order to ensure the implementation of the laws of the Republic of Uzbekistan, the decisions of the President of the Republic of Uzbekistan, a number of decisions made by the Cabinet of Ministers regarding the professional education system, the professional education of leaders and pedagogues working in this education system It is important for them to have a deeper understanding of state policy and the legal basis for its modernization.

The Law of the Republic of Uzbekistan "On Education" approved on September 23, 2020, the President of the Republic of Uzbekistan dated January 28, 2022 "On the development strategy of the new Uzbekistan for 2022-2026" No. PF-60, No. PF-5812 dated September 6, 2019 "On additional measures to further improve the professional education system" and No. 6 November 2020 "Uzbekistan PF-6108 No. PF-6108 on measures to develop education and science in the period of new development and "On approval of the concept of development of science until 2030" dated October 29, 2020 Decrees No. PF-6097 dated February 27, 2020 "On measures to further develop the field of pedagogical education" No. PQ-4623 dated November 6, 2020 "Education in the new development period of Uzbekistan Decree No. PF-6108 "On measures for the development of education and science" and "On additional measures to further improve the education system" PQ- Resolution No. 4884 and Resolution No. 106 of the Cabinet of Ministers of the Republic of Uzbekistan dated February 26, 2021 "On measures to further improve the system of retraining and professional development of management and pedagogic personnel of



professional educational institutions", No. 287 of May 15, 2020 "On measures to organize the activities of the national system of professional qualifications, knowledge and skills development in the Republic of Uzbekistan", August 7, 2020 "Continuous primary in the Republic of Uzbekistan, o It was created on the basis of the content of priority tasks defined in the decisions No. 466 "On the approval of normative legal documents regulating the system of secondary and secondary special professional education" development of professional skills and innovative competence, advanced foreign experiences in the field, assimilation of new knowledge and skills, as well as improvement of the skills of putting them into practice are required.

On September 6, 2019, the President's Decree "On additional measures to further improve the professional education system" was adopted.

If this Decree was the basis for the establishment of a new professional education system in the history of Uzbekistan, on January 24, 2020, the head of our state said in his Address "Starting from the current academic year, a completely new professional education system will be launched vocational schools, colleges and technical schools will be established," he once again emphasized the importance of this system.

The ultimate goal of all our reforms in the economic and political spheres is to create decent living conditions for all citizens living in our country. That is why it is one of the most important tasks of our state to raise a morally well-developed person, raise education and raise a new generation that will bring out the idea of national revival.

The fact that the Republic of Uzbekistan achieved state independence and chose its own path of economic and social development made it necessary to reorganize the structure and content of personnel training and take a number of measures, namely requires the introduction of the law, the introduction of new curricula, programs, textbooks.

It can be said that there are no manuals in the Uzbek language, especially in the field of organizing practical training and independent work of students on the algebra and number theory course. This situation causes a lot of difficulties for the students of the lower year. That is why it is appropriate to write a manual.

We found it necessary to provide the necessary basic concepts (without proof) in order to free students from referring to various manuals on theories and certain concepts during independent practical training. In giving these basic concepts, in the guide as a whole, an attempt was made to maintain the sequence of the university's program for teaching the course, but in order to maintain scientificity and facilitate the presentation of concepts, it was necessary to deviate from this principle.



Each paragraph is followed by several examples and solutions to problems, followed by a series of examples and problems for independent solution, and their answers are given at the end of the manual.

When choosing examples and problems for independent solution, we tried to be as close as possible to the materials of general education schools.

In addition to university students, the guide can also be used by students of pedagogic institutes, secondary special educational institutions, and senior students of general education schools.

From this point of view, it is desirable to make the topics clear and understandable for the students of professional educational institutions in a simple way and to professionalize the lessons.




In this case, it was determined that it is useful to organize the topic by using concrete examples, tasks, application to life, problems, various pictures, drawings, videos and other tools.

CONCLUSION

Life examples are very important in making the topic interesting. This will attract the attention of the reader, ensure that he understands the topic and remembers it for a long time.

Because even in the decision of the head of state "On measures to improve the quality of education in the field of mathematics and to develop scientific researches", educational literature (textbooks) on the subject of mathematics is included in various programs and on a general methodological basis, as well as modern information. The issue of preparation on the basis of real examples, graphic materials, explaining with the help of technology tools was raised. [5]

Newton's Laws of Motion

1st Law		A body in motion remains in motion or a body at rest remains at rest, unless acted upon by a force.
2nd Law		Force equals mass times acceleration: $F = m \cdot a$
3rd Law		For every action, there is an equal and opposite reaction.

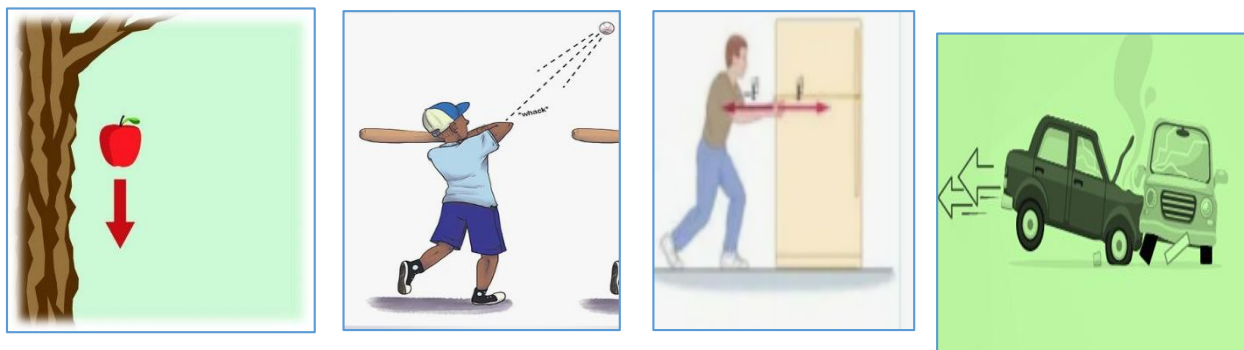
It is necessary to prepare a lecture text before preparing a presentation using it. Presentations are prepared based on the lecture. Developing a presentation plan is also important.



Choosing a "background" or "template" suitable for the theme of the presentation will increase the quality of the presentation even more. It is approached with aesthetic taste.

At the end, the teacher should learn the opinions of the participants about the lesson. for this, a traditional survey can be conducted. It is recommended to conduct questionnaires in the form of an interview, in paper form or in electronic form (by telegram). In addition, the opinion of the participants can be determined through various methods.

For example, at the end of the training, the participants were asked, "Based on the finished lesson, which of the following forms would you choose?" you can get their interesting answers and comments by asking the question.



Based on the answers given by the participants, they are asked why they chose that form. Their comments are recorded and systematically analyzed after the training. This will help organize further training more effectively.

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