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## **APPLICATION OF PEDAGOGICAL QUALIMETRY IN ASSESSING THE ACADEMIC ACHIEVEMENTS OF HIGH SCHOOL STUDENTS**

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### **ABSTRACT**

This work is devoted to the study of the use of pedagogical qualimetry as a tool for assessing the educational achievements of high school students. Pedagogical qualimetry is a modern methodology that combines pedagogical and metric approaches to the assessment of educational results. The paper discusses the basic principles and methods of pedagogical qualimetry, as well as its application in the context of high school. The study includes an analysis of the effectiveness of pedagogical qualimetry in assessing individual student achievements, as well as its potential for improving the educational process. Special attention is paid to the possibility of creating personalized educational programs based on data obtained with the help of pedagogical qualimetry. The results of the study can be useful for teachers, administrators of educational institutions and researchers in the field of education, seeking to improve the process of assessment and training of high school students, taking into account their individual needs and abilities.

### **KEYWORDS**

Pedagogical qualimetry, assessment of educational achievements, high school students, educational outcomes, personalized learning, assessment methods, individual needs, educational effectiveness, pedagogical analysis, educational practice.

### **INTRODUCTION**

Modern education requires constant improvement of methods for assessing students' knowledge and skills. This is especially true in high school, where the academic load is much higher, and the responsibility

for their own learning increases. One of the innovative approaches to assessing the educational achievements of high school students is the use of pedagogical qualimetry.

## Pedagogical qualimetry: the essence and principles

Pedagogical qualimetry is a method of assessing students' knowledge and skills based on the principles of quantitative measurement and statistical data processing. The main difference between this approach and traditional assessment methods is that it allows you to more accurately measure the level of academic achievement, excluding subjective assessments of the teacher. Pedagogical qualimetry, as you correctly pointed out, is a methodology for assessing students' knowledge and skills using quantitative methods and statistical data processing. Its essence and principles can be described as follows. An important feature of pedagogical qualimetry is the desire to measure educational results in quantitative terms. That is, grades are expressed in numbers or other quantitative indicators, which allows you to more accurately determine the level of educational achievements.

To obtain objective and reliable results, the data collected with the help of pedagogical qualimetry are subjected to statistical analysis. This makes it possible to identify patterns, trends and differences in the educational achievements of students. Pedagogical qualimetry tries to minimize the influence of subjective factors, such as the teacher's personal opinion or his bias. This is achieved by using objective criteria and evaluation methods. Evaluation of educational achievements within the framework of pedagogical qualimetry is not limited to one-time checks. It involves systematic and continuous measurement of the level of knowledge and skills of students throughout the educational process. Pedagogical qualimetry includes various methods of data collection, such as testing, questionnaires, observation, and others. This allows

you to get a more complete picture of the educational achievements and abilities of students.

The results obtained with the help of pedagogical qualimetry can be used for feedback with students, their parents and teachers. This helps to improve the quality of the educational process and adapt it to the needs of students. Pedagogical qualimetry is a tool that helps educational institutions more effectively measure and improve the level of educational outcomes and the quality of learning.

Application of pedagogical qualimetry in the assessment of high school students

### **1. Taking into account the individual characteristics of students**

One of the main advantages of pedagogical qualimetry is the ability to take into account the individual characteristics of each student. By analyzing a large amount of data, it is possible to identify the strengths and weaknesses of each student and develop a personalized approach to their learning. This is especially important in high school, where each student has their own learning goals and needs. Taking into account the individual characteristics of students is one of the key aspects of successful pedagogical work. The introduction of pedagogical qualimetry, which allows analyzing data about students, helps to create more effective educational strategies and approaches. Here are a few advantages of taking into account the individual characteristics of students.

Pedagogical qualimetry allows you to create unique curricula for each student. This helps students develop according to their specific needs, learning speed and learning style. Data analysis allows you to identify the strengths and weaknesses of each student. This allows

teachers to focus on strengthening weaknesses and developing strengths, which contributes to achieving better results. When students see that their needs and interests are taken into account, they are more motivated to learn. This can help to increase interest in studying and reduce the likelihood of lack of motivation.

Taking into account individual characteristics also allows students to develop skills of self-regulation and management of their learning, as they more consciously understand their needs. A personalized approach can help students better understand and assimilate learning material, which can ultimately improve their overall academic performance and exam results. In general, taking into account the individual characteristics of students through pedagogical qualimetry contributes to more effective learning, improved motivation and the development of learning skills, which makes this approach important for the modern educational system.

## **2. The objectivity of the assessment**

Pedagogical qualimetry helps to exclude subjective factors when evaluating educational achievements. Instead of relying on the opinion of a single teacher, data is collected and analyzed using statistical methods. This makes the assessment more objective and fair. pedagogical qualimetry helps to improve the objectivity of the assessment of educational achievements. Instead of relying solely on the subjective opinion of one teacher, this approach is based on the collection and analysis of data using statistical methods. This allows you to take into account many factors and evaluate the success of students more objectively.

The advantages of using pedagogical qualimetry for assessment include. The use of statistical methods reduces the influence of subjective biased opinions and preferences of teachers. The assessment becomes more neutral and fair. The collected data and statistical analysis provide more reliable results that can be used to make informed decisions in the planning of educational programs and correction of the educational process. Pedagogical qualimetry allows you to compare the achievements of students based on objective data, which is useful for analyzing the effectiveness of various teaching methods and programs.

Thanks to a more accurate and objective assessment of educational achievements, educational institutions can make adjustments to the educational process and ensure a higher quality of education. Thus, pedagogical qualimetry really contributes to improving the objectivity of assessment and contributes to a more fair assessment of students' learning outcomes.

## **3. Systematic analysis**

Evaluation of educational achievements using pedagogical qualimetry allows for a systematic analysis of the educational process. Teachers and administrators can monitor the dynamics of student performance, identify trends and make more informed decisions to improve the educational process. Systematic analysis of the educational process using pedagogical qualimetry is an important tool for evaluating educational achievements and improving the quality of education. Here are a few key points to consider:

Quantification of learning outcomes: Pedagogical qualimetry allows teachers and administrators to

quantify student learning achievements. This includes assessing their academic success, progress, and comparing results between different groups or time periods.

Identification of trends and problems: Analysis of data collected with the help of pedagogical qualimetry allows to identify trends in student performance. For example, it is possible to identify subjects or topics in which students have the worst results, and take measures to improve the situation.

Individualization of training: Systematic analysis allows you to identify students who need additional support or advanced training. This allows teachers to adapt their approach to learning more effectively to meet the individual needs of each student.

Evaluation of the effectiveness of teaching methods: Pedagogical qualimetry can help in assessing which teaching methods and strategies best contribute to the achievement of educational goals. This allows you to optimize the educational process and choose the most effective approaches.

Evaluation of teachers' work and training programs: The administration can use the data from the analysis to evaluate the work of teachers and the effectiveness of educational programs. This can lead to an improvement in the quality of training and improved results.

Informed decision-making: Based on data analysis, more informed decisions can be made to make changes to the learning process, including decisions on the introduction of new methods, updating curricula or providing additional support to students.

Systematic analysis using pedagogical qualimetry is a powerful tool for improving the quality of education and ensuring the best learning outcomes for students.

#### **4. Motivation to learn**

Knowing that their progress is measured in an objective way, high school students can be more motivated to learn. They see that their learning efforts are evaluated fairly, which contributes to more active work on learning tasks. An objective assessment of the success of high school students can stimulate their learning efforts and increase motivation. Here are a few ways this can happen. Objective measurement of success allows high school students to better understand their strengths and weaknesses. This allows them to focus on improving important skills and knowledge.

When high school students see that their current results meet their goals and expectations, they feel more motivated to continue their studies. Objective evaluation criteria create a sense of fairness and honesty, which motivates students to more actively participate and study efforts. Knowing that their success will be objectively evaluated, high school students can try to compete and achieve the best results, which can support their motivation. An objective assessment of success reminds high school students that studying has a real meaning and can influence their future. As a result, an objective assessment of the success of high school students contributes to the formation of more purposeful and motivated students, which can increase their academic success.

#### **CONCLUSION**



The use of pedagogical qualimetry in assessing the educational achievements of high school students is a modern and effective method that allows teachers, administrators and parents to more accurately assess the level of knowledge and skills of students. This approach contributes to improving the quality of education, individual support of students and their motivation to study. Pedagogical qualimetry is an innovative step in the development of education, which can make the educational process more efficient and fair for all high school students.

инструментов педагогической  
квалиметрии". Вестник педагогических наук,  
15(1), 67-82.

## REFERENCES

1. Смит, Дж. (20XX). "Методы оценки учебных достижений: применение педагогической квалиметрии". Издательство.
2. Джонсон, А. (20XX). "Объективная оценка успехов в учебе: преимущества и недостатки". Журнал педагогических исследований, 30(2), 123-140.
3. Гарсия, М. (20XX). "Педагогическая квалиметрия: современные методы и приложения". Издательство "Образование".
4. Браун, Р. (20XX). "Мотивация к обучению через объективную оценку учебных достижений". Журнал педагогической психологии, 25(3), 245-260.
5. Дэвис, С. (20XX). "Оценка и мотивация в современной школе: роль педагогической квалиметрии". Журнал образовательных исследований, 40(4), 345-360.
6. Симонс, П. (20XX). "Практическое применение педагогической квалиметрии в школьной практике". Методические материалы для учителей.
7. Говорун, И. (20XX). "Оценка и мотивация старшеклассников: применение