

The dissertation work of Rima Ergalieva Abdualieva on the topic "Scientific and methodological basis for the use of Case-technology in the formation of information competence of Mathematics teachers" was completed for the degree of Doctor of Philosophy (PhD) in the specialty 8D01501- "Mathematics" by a foreign scientific consultant doctor, Professor Mehmet Akif Sozer

Comment

Introduction

The dissertation research of Abdualieva Rima Ergalieva is a necessary work in the field of pedagogical education. In his dissertation work, the doctoral student studies the use of Case technology in the formation of information competence of mathematics teachers. The dissertation is written competently and a thorough analysis of the research topic is carried out.

Relevance of the study

Modern society needs educated, business professionals who are able to make effective decisions in difficult life situations, are capable and ready to constantly develop their professional qualities. Thus, in order for the future young generation to meet the requirements of the Times, that is, the requirements of "Digital Kazakhstan", it is necessary to develop information competence. Next, it provides a conceptual framework for how Case technology can be used to form the information competence of mathematics teachers. This structure is based on the following three components:

- knowledge and skills that must be developed in mathematics teachers information competence;
- information competence must be formed for the knowledge and skills
- Problems of using case technology;
- to give a methodology for the use of Case technology in the formation of information competence of mathematics teachers and its assessment.

R. E. Abdualieva was recommended for use in the teaching process by teachers of the specialty "Mathematics", "Mathematics and Informatics" in the direction of training future mathematics teachers in 6b015-Natural Sciences to study the effectiveness of the use of Case technology in the formation of information competencies of mathematics teachers. At the same time, the methodology for using Case technology and the electronic tool with which cases were created were prepared and used.

Analysis of compliance of scientific results with the requirements for a doctoral dissertation

The dissertation work contains the scientific and methodological foundations of the use of Case technology for the formation of information competence of mathematics teachers. The doctoral student defined the pedagogical conditions for the formation of information competence of mathematics teachers using Case technology, developed a methodology for its application and introduced it into the learning process.

The object of the study is the process of teaching mathematical disciplines in the system of higher pedagogical education on the basis of Case technology

Description of the autonomy of the author's point of view

The scientific results of the study and the degree of novelty of the formulated search results are characterized by scientific and theoretical justification and compliance with the content of the research apparatus, the effectiveness of the methods and techniques used in teaching, the systematic planning of experimental work, the correspondence of quantitative and qualitative indicators.

Shortcomings in the content and design of the dissertation

There are no comments on the content and design of the dissertation work. The structural components of the dissertation (title page, content, regulatory references, titles and abbreviations, introduction, main part, conclusion, list of references and appendices) are correctly executed. The volume of the dissertation meets the established requirements. The identified shortcomings in the content of the work were eliminated by the doctoral student, together with the domestic scientific consultant, at the stage of editorial revision.

Validity of research results

Depending on the theoretical, empirical and statistical methods used in the dissertation research, the novelty, validity and reliability of the results, conclusions and recommendations formulated in the dissertation are justified. The relevance and validity of the work is clearly expressed.

The effectiveness of the use of Case technology in the formation and development of information competence of mathematics teachers in the process of teaching mathematical disciplines in a higher educational institution is generalized.

The validity and reliability of the results is confirmed by the theoretical substantiation of the systems of scientific research methods, that is, the use of Pearson's χ^2 criterion in the processing of the obtained experimental results and presentation at scientific and methodological seminars, international scientific and practical conferences of the Ilyas Zhansugurov Zhetysu University.

Compliance with the requirements of the committee for quality assurance in the field of Science and higher education of the Ministry of Science and higher education of the Republic of Kazakhstan.

The doctoral student has analyzed many sources and scientific works of domestic and foreign scientists on the topic of research.

The results of the dissertation research are used as a theoretical basis for the use of Case technology in the formation and development of professional information competence of mathematics teachers, satisfying the basic requirements of higher educational institutions.

Conclusion

It can be concluded that the dissertation is a completed work and reflects a sufficient level of theoretical training of the doctoral student, his ability to formulate problems and find ways to solve them.

The dissertation used clear conclusions and maintained stylistic neutrality.

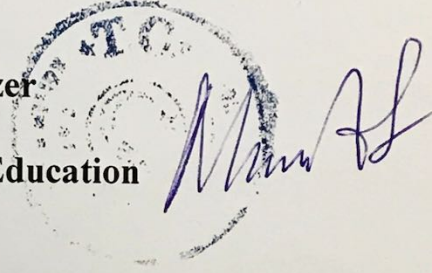
An objective interpretation of the results of the research work is provided by a list of publications that reveal the main scientific principles proposed by the

author. The theoretical foundations and conclusions of the dissertation research were published at methodological seminars of the Higher School of natural sciences, at scientific and practical conferences of various levels.

Considering the relevance of the topic under consideration, as well as the novelty of the problem under study, the practical significance of the work on the topic "scientific and methodological basis for the use of Case - technology in the formation of information competence of Mathematics teachers", I consider it appropriate to submit for defense to the dissertation Council for the degree of Doctor of Philosophy (PhD) in the educational program 8D01501-"Mathematics".

Reviewer:

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15.04.2024