

STATEMENT REPORT

under the procedure for acquisition of the educational and scientific degree “Doctor”

by candidate Panagiotis Constantinos Anagnostou,

of the PhD Thesis entitled: “Evaluation of the effectiveness of the remote online learning based on the perceptions of learners and trainers”,

In the Scientific field: **1. Pedagogical Sciences**

Professional field: **1.3. Pedagogy of learning in ...**

Doctoral program ““Teaching Methodology of Mathematics and Informatics””, Department „ Education in mathematics and informatics”,

Faculty of Mathematics and Informatics (FMI), Sofia University “St. Kl. Ohridski” (SU),

The statement report has been prepared by: Assoc. Prof. Krasimir Valentinov Harizanov PhD, - Konstantin Preslavsky University of Shumen, as a member of the scientific jury for the defense of this PhD thesis according to Order № 38-155/27.03.2024 of the Rector of the Sofia University.

1. General characteristics of the dissertation thesis and the presented materials

The dissertation consists of 249 pages of main text, introduction, five chapters, conclusion, contributions and publications on the topic. Theoretical issues related to distance teaching and learning during the COVID-19 pandemic are thoroughly presented. The developments of a number of researchers working in the fields of methodology and e-learning have been reviewed and analyzed. A large bibliography of 92 sources, mainly in English, is presented. The dissertation contains 105 figures, 15 tables and 34 abbreviations.

The dissertation examines the role of information and communication technologies (ICT) in the online learning process during the COVID-19 pandemic. It examines to what extent such learning can secure the educational process in vocational schools. Empirical studies related to distance e-learning are presented.

The *first chapter* is devoted to ICT as the main factor for the implementation of electronic and distance learning. Attention is paid to synchronous and asynchronous learning and what they are characterized by. The literature review traces the development of distance learning. In conclusion, conclusions are drawn as to the advantages of distance learning and the disadvantages related to teaching, preparation and its implementation.

The *second chapter* examines the possibility of vocational and continuing vocational training in Greece. Various training options are presented, so that each student can acquire the necessary level of education, qualification or competences according to their needs.

The *third chapter* presents an empirical study related to the application of e-learning during the COVID-19 crisis. The research methodology was implemented with quantitative and qualitative analysis, which summarize the degree of satisfaction with online learning. For the purposes of the research, a questionnaire was implemented among 774 participants, fragmented according to various criteria. The statistical software IBM SPSS STATISTICS v24.0 was used to process the quantitative analysis, and the qualitative analysis was implemented in the form of a conversation.

Chapter four, DATA COLLECTION AND ANALYSIS, summarizes the most important results of the quantitative and qualitative analysis presented in Chapter 3. The quantitative analysis in this chapter is presented in great detail and illustrated with numerous tables and graphs. Chi-square tests of independence were implemented to examine the various relationships and responses indicated. In addition, conclusions related to the analysis of each result are attached. The qualitative analysis was conducted through interviews, with 17 participants from different professional fields. Several statistical conclusions are made in the summary part of the chapter.

Chapter five summarizes the general results of the dissertation work. The most significant conclusions reached by the pedagogical research are described. Attention has been paid to the problems that exist in the implementation of a distance form of learning, as well as the preferences of learners to use modern learning platforms such as Webex and ZOOM, even after the COVID-19 pandemic.

2. Short CV and personal impressions of the candidate

Panagiotis Constantinos Anagnostou has extensive professional experience as director of the State Vocational Training Institutes PATRAS and WEST. He has competencies in the field of programming, computer networks, computer technology and many other digital and pedagogical skills. Together with his scientific supervisor, Assoc. Dr. Nikolina Ilieva Nikolova, he started his research activity in 2021, with whom he is a co-author of several scientific publications.

From the presented materials on the dissertation work, I think that Panagiotis Anagnostou has a high level of preparation on the presented topic.

3. Content analysis of the scientific and applied achievements of the candidate, contained in the presented PhD thesis and the publications to it, included in the procedure

The scientometric data presented by Panagiotis Constantinos Anagnostou, as well as the conclusions drawn in the dissertation, give me reason to accept the scientific and practical contributions formulated in the dissertation.

4. **Approbation of the results**

Panagiotis Konstantinos Anagnostou has 10 publications on the subject of his dissertation in journals, proceedings and scientific conferences. The publications have the following characteristics: eight have been published in national and international conference proceedings. Two of the publications are indexed in the world databases SCOPUS and WoS. All articles are co-authored. The approved results include the presented seven sectional reports from scientific conferences.

The publications presented by Panagiotis Constantinos Anagnostou fully cover the minimum national requirements for obtaining the educational and scientific degree "Doctor" in PF 1.3 Pedagogy of education in...

5. **Qualities of the abstract**

The abstract contains the main information reflecting the main practical-applied and learned contributions presented in the dissertation work.

6. **Critical notes and recommendations**

The dissertation is written at a high scientific level. I recommend that the PhD student in the future have independent publications that are directed to indexed world editions.

7. **Conclusion**

Having become acquainted with the PhD thesis presented in the procedure and the accompanying scientific papers and on the basis of the analysis of their importance and the scientific and applied contributions contained therein, **I confirm** that the presented PhD thesis and the scientific publications to it, as well as the quality and originality of the results and achievements presented in them, meet the requirements of the Act on Development of the Academic Staff in the Republic of Bulgaria, the Rules for its Implementation and the corresponding Rules at the Sofia University "St. Kliment Ohridski" (FMI-SU) for acquisition by the candidate of educational and scientific degree "Doctor" in the Scientific field 1. Pedagogical Sciences, Professional field 1.3. Pedagogy of learning in ... In particular, the candidate meets the minimal national requirements in the professional field and no plagiarism has been detected in the scientific papers submitted for the competition.

Based on the above, **I strongly recommend** the scientific jury to award Panagiotis Constantinos Anagnostou, the educational and scientific degree "Doctor" in the Scientific field 1. Pedagogical Sciences, Professional field 1.3. Pedagogy of learning in ... (Teaching methodology in mathematics and informatics).

Date: 31.05.2024

Signature:
/ Assoc. Prof. Krasimir Valentinov Harizanov PhD /