

# STANDPOINT

**by competition for the academic position of "Associate Professor"  
in the field of higher education 1. Pedagogical sciences,  
professional field 1.3. Pedagogy of Teaching in ...  
(Informatics and information technologies)  
for the needs of Sofia University "St. Kliment Ohridski" (SU),  
Faculty of Mathematics and Informatics (FMI),  
announced in SG no. 61 of 2.08.2022 and on the FMI and SU websites**

The opinion was prepared by: Prof. DSc. Nataliya Hristova Pavlova, Department of Algebra and Geometry, Faculty of Mathematics and Informatics, University of Shumen, in my capacity as a member of the scientific jury for the competition according to Order No. RD-38-564/30.09.2022 of the Rector of Sofia University.

Only one candidate submitted documents for participation in the announced competition:  
**Ch. Assistant Professor Filip Petrov Petrov PhD from SU "St. Kl. Ohridski"**

## **I. General description of the presented materials**

### **1. Application details**

The documents submitted by the candidate in the competition correspond to the requirements of the Law on the Development of the Academic Staff in the Republic of Bulgaria, the Regulations on its implementation, and the respective SU "St. Kliment Ohridski" regulations. According to the announced procedure, I have received a complete set of materials in electronic form.

The candidate submitted a total of 17 works, of which 15 articles and 2 monographs. 3 of the presented papers were published in proceedings of conferences abroad. 6 of the publications are in English. 8 are in conference proceedings, 7 publications are in scientific journals, and articles in the journal "Mathematics and Informatics" are tracked by Web of Science. In 3 of the articles, Petrov is the sole author, and the remaining 12 are co-authored with one or two co-authors.

### **2. Applicant data**

To date, Filip Petrov Petrov PhD is a "Chief assistant professor" in the "Mathematics and Informatics Education" department at the Sofia University "St. Kliment Ohridski". He was awarded a Bachelor's degree in "Applied Mathematics" in 2006, and in 2008 a Master's degree in the specialty "Teaching technologies in mathematics and informatics" SU. In **2014**, he received a *PhD in 1.3. Methodology of mathematics education* at Southwestern University

"Neofit Rilski". Petrov has work experience as a operator, teacher and university lecturer. In the period 2009-2015, he held the position of "assistant" at TU - Sofia, and in 2012 he was a "part-time assistant" at Neofit Rilski Secondary School. Since 2015, he has been a "main assistant" at SU "St. Kl. Ohridski".

### **3. General characteristics of the candidate's scientific works and achievements**

The candidate has submitted a total of 17 papers, the number and quality of which meet the minimum national requirements (according to Article 2b, Paragraphs 2 and 3 of the Law on the Development of the Academic Staff). I have not found plagiarism in the texts of the articles and monographs on the competition.

The applicant has provided a reference for 6 citations in articles, reports and monographs, but I strongly believe that many more citations are available.

The quantitative indicators of the presented materials satisfy and exceed the requirements of the Law on the Development of the Academic Staff in the Republic of Bulgaria and the requirements of the SU.

### **4. Characteristics and assessment of the candidate's teaching activity**

Ch. Assistant Professor Filip Petrov, PhD, has extensive experience in teaching various disciplines of a mathematical, informatics and methodological nature. Some of the courses he has taught are: "IT School Course", "Informatics School Course", "Programmed Learning", "Basics of Secure Web Programming", "Databases" and many others to students of "Bachelor" and "Master" degree.

Petrov is the academic supervisor of many graduates.

### **5. Content analysis of the applicant's scientific and applied scientific achievements contained in the materials for participation in the competition**

The scientific works submitted for the competition concern a variety of educational fields. Petrov researches the possibilities of dialogue-training programs, the problems of school training in informatics, issues with the practical training of students - future teachers in informatics and information technology, etc. We should note the monographic works of the candidate. In the *Challenges to Informatics Education in Bulgarian Secondary Schools*, Petrov presents his view on a complex and topical issue that is undergoing constant development. In the monograph *Theory of dialog-learning programs*, the author presents ideas for creating

dialog-learning programs with familiar and accessible means. Part of the text in this monograph is based on the candidate's dissertation.

## **6. Critical remarks and recommendations**

The scientific production provided for participation in the competition does not contain significant weaknesses that would detract from its merits.

As a recommendation, I can point out that it is appropriate for the candidate to publish more independent results in prestigious journals at home and abroad.

## **7. Application conclusion**

After having familiarized myself with the materials and scientific works presented in the competition and based on the analysis of their significance and the scientific and scientific-applied contributions contained in them, I **confirm** that the scientific achievements meet the requirements of the Law on the Development of the Academic Staff in the Republic of Bulgaria, the Regulations for its application and the relevant Regulations of SU "St. Kliment Ohridski" for the candidate to occupy the academic position of "associate professor" in the scientific field and professional direction of the competition. In particular, the candidate satisfies the minimum national requirements in the professional direction and no plagiarism has been found in the scientific works submitted for the competition.

I give my **positive assessment** to the application.

## **II. GENERAL CONCLUSION**

Based on the above, I **recommend** the scientific jury to propose to the competent authority for the selection of the Faculty of Mathematics and Informatics at SU "St. Kliment Ohridski" to elect Ch. assistant professor Filip Petrov Petrov to take the academic position "associate professor" in the field of higher education 1. Pedagogical sciences, professional direction 1.3. Pedagogy of teaching in... (Informatics and information technologies).

26.10.2022

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/Prof. DSc. Nataliya Pavlova/