

STANDPOINT

from Dr. Nevena Stoyanova Mileva - Professor at Plovdiv University "Paisii Hilendarski"

of the materials submitted for participation in the competition for the academic position of 'Associate Professor' of Plovdiv University "Paisii Hilendarski",

by field of higher education 1. Pedagogical sciences, Professional field 1.3. Pedagogy of teaching in ... (Methodology of teaching in physics).

In the competition for 'associate professor', announced in the National Newspaper, copy 40 from 14.05. 2021 and on the website of Plovdiv University "Paisii Hilendarski" for the needs of the Department of Educational Technologies at the Faculty of Physics and Technology, Christina Georgieva Petrova from Plovdiv University "Paisii Hilendarski" is a candidate.

1. General presentation of the procedure and the candidate

By order № P33-№ 3129 of 12.07.2021 of the Rector of Plovdiv University "Paisii Hilendarski" (PU) I was appointed a member of the scientific jury in a competition for the academic position of 'associate professor' in PU in the field of higher education 1.3 Pedagogy of teaching in..., professional field Methodology of teaching in physics, announced for the needs of the Department of Educational Technologies of the Faculty of Physics and Technology.

Only one candidate has submitted documents for participation in the announced competition: Assistant Professor Dr. Hristina Georgieva Petrova, lecturer at the Faculty of Physics and Technology of Plovdiv University "Paisii Hilendarski".

The presented set of materials on electronic media, prepared by Assistant Professor Dr. Hristina Georgieva Petrova is in accordance with the Regulations for the development of the academic staff of the University of Plovdiv, and includes all necessary documents.

The candidate Dr. Hristina Petrova has applied for participation in the competition:

- diplomas, CVs, work experience, list of scientific papers, reference to the minimum national requirements for holding the academic position of "associate professor", list of citations, annotation of the attached materials and self-assessment of contributions;
- curricula, reference for classroom employment for the last 5 years, certificate for scientific guidance of graduates;
- a set of scientific papers for participation in the competition.

Out of a total of 62 scientific papers for the competition, 37 scientific papers are taken into account:

- 1 monograph;
- 33 scientific papers;
- 3 teaching aids;
- participation in 3 research projects.

In the section teaching activity are provided official notes for classroom employment and a certificate for scientific guidance of graduates.

The professional biography of the candidate, as well as my personal impressions from the long-term joint work with Dr. Hristina Petrova show that the accumulated experience, qualification and research potential is sufficient and convincing to hold the academic position of "Associate Professor".

2. General characteristics of the candidate's activity

2.1. Evaluation of educational and pedagogical activities and preparation of the candidate

The candidate has a long-term teaching activity at the University of Plovdiv "Paisii Hilendarski" and has mainly taught classes in disciplines of the scientific field of the competition.

Dr. Hristina Petrova develops lectures and conducts courses, seminars and workshops for students from the Faculty of Physics and Technology, Chemistry, Biology, Pedagogy and Philosophy and History of Plovdiv University "Paisii Hilendarski":

- methodology of the teaching experiment in physics;
- the graphic method in teaching physics;
- theory and methodology of the didactic test;
- information and communication technologies and work in a digital environment;
- audio-visual information technologies in education;
- presentation and communication skills.

Dr. Hristina Petrova was the scientific supervisor of 7 successfully defended graduates. From the reviewed materials for the competition it can be summarized that Dr. Hristina Petrova performs responsibly and with great care her functions as a lecturer in various forms and topics of education of students from different faculties of Paisii Hilendarski University of Plovdiv.

2.2. Evaluation of the scientific and scientific-applied activity of the candidate

In the competition for associate professor, Dr. Petrova participates with 37 publications:

- monographs - 1;
- teaching aids - 3;

- articles in scientific journals included in the world system for reviewing, indexing and evaluation with impact rank and impact factor - 7;
- articles in peer-reviewed and indexed journals abroad - 2;
- articles in referenced and indexed Bulgarian journals and scientific papers - 18;
- reports at national conferences, published in full text - 5;
- reports at scientific conferences with international participation - 1.

The number of independent scientific papers is impressive: 35 independent and 2 are co-authored.

In the author's reference the scientific contributions are divided into the following directions:

- Innovative educational technologies
- Graphic modeling in physics education
- Information and communication technologies in education
- Content, methodology and technique of the physical learning experiment
- Application of the reflective approach in physics education
- Formation of meta-subject universal skills in students, etc.

2.3 Critical remarks

I have no essentially critical remarks, but rather recommendations:

An important aspect of the activity of a future associate professor is the use of modern tools and technologies in teaching physics in high school and in the training of future teachers - the use of modern technological tools in teaching - mobile devices, the use of augmented reality technology and test automation in the middle course, use of digital resources and others. In this regard, Dr. Petrova must strengthen this aspect of her work as a lecturer.

My second recommendation is related to her research: teamwork is extremely important in the development and application of technological tools in the educational environment. I mean working with specialists in the field of information technology, as well as working with basic teachers and distinguished students. In this regard, no matter how commendable the large number of independent research papers, Dr. Petrova must strengthen her participation in research teams - a team approach and wider dissemination of the results of her research.

Conclusion

The documents and materials submitted by Dr. Hristina Petrova meet all the requirements of the Law on the Development of Academic Staff in the Republic of Bulgaria, the Regulations for the implementation of the law and the relevant Regulations of the University of Plovdiv "Paisii Hilendarski". The presented scientific production meets the

minimum scientific requirements for all groups of indicators for the academic position of 'associate professor'.

The candidate in the competition has submitted a sufficient number of scientific papers published after the materials used in obtaining the degree of "doctor". In the works of the candidate there are original scientific-applied and methodical contributions, which have received international recognition as a representative part of them are published in journals and scientific collections published by international academic publishers. His research works have practical applicability, as some of them are directly oriented to the educational work and the academic community in the country and abroad. The scientific and teaching qualification of Dr. Petrova is unquestionable.

The results achieved by Dr. Hristina Petrova in the teaching and research activities fully comply with the specific requirements of the Faculty of Physics and Technology, adopted in connection with the Regulations of the University of Plovdiv for the application of the rules.

After getting acquainted with the materials and scientific papers presented in the competition, analysis of their significance and contained in them scientific, scientific-applied and applied contributions, I find it reasonable to give my positive assessment and recommend to the Scientific Jury to prepare a report-proposal to the Council of the Faculty of Physics and Technology for the election of Dr. Hristina Georgieva Petrova to the academic position of 'Associate Professor' at the University of Plovdiv "P. Hilendarski "by professional field 1.3. Pedagogy of teaching in ... (Methodology of teaching in physics).

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Prepared the standpoint:
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