

OPINION

by Prof. Dr. Mihail Mihaylov Konstantinov

Department of Mathematics
University of Architecture, Civil Engineering and Geodesy - Sofia

about the procedure for awarding the Academic position „Associate
Professor“

Candidate: Chief Assistant Dr. Iva Rumenova Dokuzova

Field of higher education: 4. Natural sciences, mathematics and informatics

Professional field: 4.5 Mathematics (Geometry and Topology)

Research Unit: Department of Algebra and Geometry, Faculty of Mathematics and Informatics, Plovdiv University “Paisii Hilendarski”

Announcement in the State Gazette: no. 96 of November 17, 2023, as well as on the website of Plovdiv University "Paisii Hilendarski"

1. Details of the procedure

By order RD-21-387 of the Rector of Plovdiv University “Paisii Hilendarski” of February 16, 2024, I was appointed as a member of the Scientific Jury in the competition for awarding the academic position of “Associate Professor” in the above field of higher education and professional field. Within the deadline specified documents under the procedure has submitted the only candidate Chief Assistant Dr. Iva Rumenova Dokuzova. At the first meeting of the Scientific Jury I was appointed to prepare an opinion on the materials for the competition.

I can confirm that the candidate's work meets the scientific indicators of NACID. The candidate's activity also meets the Additional requirements of the Faculty of Mathematics and Informatics at Plovdiv University "Paisii Hilendarski". This includes the candidate for the academic position "Associate Professor" to have specified at least 8 publications that are not submitted for the acquisition of the educational and scientific degree "Doctor" and for occupying the academic position of "Assistant Professor". Of the submitted publications, at least 5 must be in journals, and at least 3 must be in impact-factor journals. At least one textbook must also be provided, as well as data on at least 5 citations.

2. Details of the candidate

The candidate in the competition was born in 1971. She graduated from the Faculty of Mathematics and Informatics at Plovdiv University "Paisii Hilendarski" and received the educational and qualification degree "Master" in Mathematics. In 2006 she defended the educational and scientific degree "Doctor" with a dissertation in the Scientific specialty "Geometry and Topology" (scientific specialty 01.01.06 according to the Classification until 2011) on the topic "On the geometry of almost complex manifolds with Nordic metrics and Riemann manifolds with a structure of almost a product".

She was a teacher of mathematics and subsequently (and until now) worked as an assistant and chief assistant at the Department of Algebra and Geometry at the Faculty of Mathematics and Informatics at Plovdiv University "Paisii Hilendarski".

For the competition the candidate has submitted copies of the required documents, including: 1. Application form to the Rector of Plovdiv University "Paisii Hilendarski" for admission to the competition; 2. CV European format; 3. Higher education diploma; 4. Diploma for the educational and scientific degree "Doctor"; 5. List of scientific and educational works; 6. Scientific and educational works (monograph, publications and textbooks); 6. List of citations; 7. (a) Reference to compliance with the Minimum national requirements; b) Reference for compliance with the additional Faculty requirements; 8. Annotations of the materials under art. 65 of PRASPU (in Bulgarian and English); 9. Self-assessment of the contributions (in Bulgarian and English); 10. Declaration of originality and authenticity of the attached documents; 11. Certificate of work experience; 12. Documents for educational work; 13. Documents for research work; 13. Official

note from NAP – Plovdiv University “Paisii Hilendarski”; 14. Documents for administrative work, and others.

3. Research activities

For the competition the candidate has presented 15 scientific papers and one monograph on "Four-Dimensional Riemannian Manifolds with Circulant Structure and Skew-Circulant Structures". Three of the above articles are published in impact-factor journals.

The main contributions of the candidate's work are as follows. A number of properties of Riemannian manifolds with the structure of almost products and manifolds with Nordic metric are examined and studied. Three-dimensional and four-dimensional manifolds have been studied whose complement matrices raised to third and fourth degree are equal to the corresponding identity matrices.

A total of 22 works of the candidate (including some of those under previous procedures) were cited a total of 41 times. With the required 400 points according to the NACID criteria, she collects over 686 points in the areas A, B, D and E. Three of the works were published in impact factor journals, and 11 were published in issues referenced by the World of Science and in the Reference journals Zentralblatt and MathSciNet.

The candidate has participated in three research projects since 2015. She speaks Russian and English.

My opinion about the research activities of the candidate is POSITIVE.

4. Teaching activities

In the period 2018-2023, the candidate had intensive teaching activity with a workload of 400 to 680 hours per year at the Faculty of Mathematics and Informatics of Plovdiv University “Paisii Hilendarski”. She has taught courses in Synthetic Geometry, Linear and Analytical Geometry, Descriptive and Differential Geometry, Mathematical Foundations of Computer Graphics, Discrete Mathematical Structures, Modeling of Random Processes and Cluster Analysis. She is the author of two textbooks on the above topics. She also ran two graduates. She was awarded for excellent scientific and educational activities.

My opinion about the teaching activities of the candidate is POSITIVE.

5. Critical remarks and recommendations

I recommend the candidate to publish a monograph with her main results on Riemann manifolds in a prestigious international Publishing House.

6. Conclusion

The research and teaching activities of the candidate Chief Assistant Dr. Iva Rumenova Dokuzova are significant and my opinion about them is POSITIVE. These activities fully meet the requirements of the Law on the Development of Academic Staff in the Republic of Bulgaria and the Regulations for its application, as well as the Regulations of the Plovdiv University “Paisii Hilendarski” regarding the awarding of academic degrees and the granting of academic positions. There is also a fulfilment and over-fulfilment of the scientometric criteria according to the requirements of NACID.

Due to the above circumstances, I strongly recommend to the Honorable Scientific Jury to propose to the Faculty Council of the Faculty of Mathematics and Informatics at Plovdiv University “Paisii Hilendarski” to award the candidate Chief Assistant Dr. Iva Rumenova Dokuzova the academic position “Associate Professor” in the specified field of higher education and professional field mentioned above.

Sofia, 01.04.2024

Signed by

(Prof. Mihail Konstantinov)