

# OPINION



## Regarding the competition for the academic position of “Associate Professor” at AU Plovdiv

in the field of higher education **4. Natural Sciences, Mathematics and Informatics**  
professional area **4.5. Mathematics**, scientific specialty **Geometry and Topology**,  
announced in the State Gazette, issue 97 from 21.11.2023

with a candidate chief assistant professor **Dimitar Rumenov Razpopov, PhD**  
Department of Mathematics and Informatics,  
Faculty of Economics, AU Plovdiv

**Worked out by Assoc. Prof. Ekaterina Petrova Mihaylova PhD**  
**Geodesy faculty of UACEG**  
**assigned as a member of the scientific jury according**  
**Order № РД-16-43/19.01.2024 of the Rector of AU Plovdiv**

### 1. Brief introduction of the candidate.

Dimitar Rumenov Razpopov completed his secondary education in 1992 at TMT Kalinin Plovdiv. He got his higher education at the Faculty of Mathematics and Informatics, *Paisii Hilendarski* Plovdiv University specializing in Mathematics and Informatics. He worked as a school teacher of Informatics from 2000 to 2004 in different schools, one of them is OMG Akademic Kiril Popov Plovdiv. From 2004 he became an assistant professor of mathematics in Agricultural University Plovdiv. In 2006 he became a senior assistant and then in 2008 he became a chief assistant. From 2019 to 2023 the candidate worked as a chief assistant in University of Food Technologies in Plovdiv.

In 2019 he successfully defended his dissertation work in the the field of higher education 4. Natural Sciences, Mathematics and Informatics professional area 4.5. Mathematics, scientific specialty *Geometry and Topology* and obtained a Ph.D. degree with a diploma №1000350 from 28.01.2019 more precisely in the field of differential geometry.

The level of English language of the candidate is good.

The presented documentation is well organised and structured. Which is also valid for his scientific papers.

### 2. General description of the scientific production.

Chief Asst. Dimitar Razpopov participates with a production of 11 scientific works in total grouped as follows:

- ❖ *Impact factor publications – 5;*
- ❖ *Publications in reviewed and referenced scientific journals – 5;*
- ❖ *A book based on his PhD Thesis– 1;*

The attached publications and citations are in Web of Science, SCOPUS, ZbMATH, or journals with SRJ indexing. Chief Asst. Prof. Razpopov's personal contribution to the mentioned 11 works he has a second coauthor in 5 of them, and two more co-authors in 3 papers and in 2 of the papers he has more than 3 co-authors

- ❖ *Handbooks – 2.*

10 of these papers are regarded in this Opinion. They are used to fulfil the requirements of the two main categories expected in the minimal national requirements.

He has 3 citations in journals with impact factor and 5 citations in journals with SJR and 2 in books.

Dimitar Razpopov takes part in scientific projects.

### 3. Teaching work.

The candidate has a wide range of teaching activities including school teaching in informatics and IT and variety of mathematical subjects. Dimitar Razpopov has written university teaching programs, handbooks and online lectures. He has been a scientific tutor for 4 students for their diploma thesis. He gives lectures on Applied Mathematics, Linear Algebra and Analytical Geometry, Statistics, Biostatistics, Financial Mathematics, Econometrics, and Game Theory.

### 4. Scientific work.

In 8 of the 10 mentioned scientific papers Dimitar Razpopov works in the field of contemporary differential geometry and they are with purely scientific character. The other 2 works are mathematical approach when comparing the impact different technologies concerning agricultural production.

In the first type of works the candidate is concerned with different classes of manifolds having an additional structure. For example Riemannian manifold  $M$  equipped with an additional endomorphism  $S$  in every tangent space  $T_pM$  at a point  $p$  on  $M$  with a skew-circulant matrix. Some curvature properties are obtained and some results on the Ricci curvature. Examples are constructed on Lie groups. Necessary conditions are found in order the associated manifold  $(M, g, J)$  to be Kahler

### 5. Notes and recommendations.

I recommend that the candidate should publish some scientific papers in the field of differential geometry on his own.

### 6. Conclusion.

Taking into account the analysis of the candidate's teaching, scientific-theoretical and scientific-applied work, I consider that **Chief Asst. Prof. Dimitar Razpopov, PhD**, meets the requirements of ADASRB, the Regulations for application of ADASRB and the AU's Regulations for its application regarding the academic position of "**Associate Professor**". He has a sufficient number of publications and citations and his project participation shows his good teamwork ability. He has great pedagogical experience in variety of mathematical subjects and informatics as well.

All the above mentioned gives me grounds to evaluate **POSITIVELY** the candidate's whole work.

I allow myself to propose to the honorable scientific jury to vote **positively**, and the faculty council of the Faculty of Economics to elect **Chief. Asst. Dimitar Rumenov Razpopov, PhD**, for the position of "**Associate Professor**" in the scientific specialty **Geometry and Topology**, professional area **4.5. Mathematics**, field of higher education **4. Natural Sciences, Mathematics and Informatics**.

19.02.2024  
Sofia

OPINION  
WORKED OUT BY:   
(Assoc. Prof. Ek. Mihailova, PhD)