

OPINION

of the materials submitted for participation in a competition for the **academic position "Associate Professor"** in professional field 5.7 Architecture, civil engineering and geodesy (General, higher and applied geodesy)

In the competition for the academic position "Associate Professor", announced in the State Gazette issue 70/07.08.2020 for the needs of the Faculty of Technical Sciences of The University of Shumen "Bishop Konstantin Preslavski", Department of Geodesy, as a candidate participates Chief Assistant Dr. Krasimira Kuneva Kirilova

Member of the scientific jury: Professor Dr. Eng. Rosalina Dimova

1. Short biographical data about the applicant

The candidate in the competition for the academic position "Associate Professor", for the needs of the Faculty of Technical Sciences of the University of Shumen "Bishop Konstantin Preslavski", is Chief Assist. Dr. Krasimira Kuneva Kirilova. She was born on 17.10.1987 in Varna. She graduated as a Bachelor of Geodesy in 2013 and in 2014 as a Master's engineer in Geodesy at the University of Shumen "Bishop Konstantin Preslavski". In 2015 graduated as a Master of Engineering in Transport Construction, at the „Todor Kableshkov“ University of Transport –Sofia. From 2008 to 2014 she worked in the field of construction. From 2014 to 2018 she was an assistant professor in the Department of Geodesy of Shumen University. In 2018, she started working as a designer and then as a practical training teacher.

In 2018 she defended her doctoral thesis on "Study of methods of modelling geoid in local areas of Bulgaria" at the University of Shumen "Bishop Konstantin Preslavski". On 7.10.2019 Dr. Krasimira Kirilova was appointed chief assistant at the Cateda Geodesy.

2. General description of the materials presented

The candidate Chief Assistant Dr. Krasimira Kuneva Kirilova presents the following materials for participation in the competition:

Monograph - "Basic Concepts of Satellite Gravimetry - Satellite Gravitational Gradometry and Satellite Tracking", University Publishing House, Shumen University, 171 pages, 2020.

Articles - twelve articles in Bulgarian journals. The materials submitted shall cover the applicant's research and application activities. All publications refer to the scientific specialty "Higher Geodesy". In eight of the publications, the candidate is an independent author.

3. Reflection of the applicant's scientific publications in literature

There are 17 citations of a total of 5 of Krasimira Kirilova's publications, with one of the publications being quoted 6 times. Given that a large number of articles have been published in recent years, it is likely that the number of citations will increase.

4. Assessment of pedagogical training

For the academic position for which the application is for, it is extremely important that the skill of working with students. Based on the materials provided, it is apparent that Dr. Krasimira Kirilova has led course work and course projects, as well as practical classes of students specialty "Geodesy". She has conducted lectures and laboratory exercises in the disciplines "Cadastre", "Device of urbanized territories", "Cadastral information systems" and "Applied geodesy".

5. Scientific and scientific application

In order to participate in the competition for academic position "Associate Professor", Dr. Kirilova has declared her participation in the project "Study the application of remote methods and technologies in the mapping of spatial objects". The experience gained by Krasimira Kirilova in practice is impressed. She is a member of a professional organization - Chamber of Engineers in the Investment Design, as well as in the Bulgarian section of the Institute of Electrical and Electronics Engineers (IEEE).

The work of the applicant meets the minimum national requirements for the scientific activity for the academic position "Associate Professor". There are a total of 401 points by metric group A, B, G and D.

6. Main scientific and scientific contributions

I accept the contribution report submitted by the applicant. The presented monograph complements and modernized existing methodologies in the field, and this contribution is of a scientifically applied nature. The methodological basis for exploring the outer gravitational field of the Earth has an applied character.

7. Importance of contributions to science and practice

The candidate Dr. Krasimira Kirilova has worked and developed purposefully in the field of research. In parallel, she participated in the training of students and in non-educational forms of working with them. Undoubtedly, it is the personal and leading beginning of Krasimira Kirilova in the scientific publications.

The importance of contributions to the applicant's scientific papers is determined by the fact that they have received publicity and have citations. The quantitative indicators of the criteria for holding the academic position "Associate Professor" are met. Contributions to work can be used in practice, in further research, as well as in the learning process.

8. Critical notes and recommendations

There are no critical weaknesses in the general requirements. It makes an impression on the purposeful work in a scientific field. I have no critical substantive notes on the materials presented in the competition. The candidate's work is written in good scientific language and is highly competent.

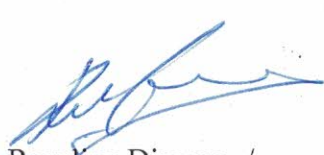
With regard to the presentation of the materials for the competition, it would be good to present the works in Bulgarian first, and then chronologically those in English in the list, with not only the title of the article written in English. Summaries in Bulgarian are applied to work in a foreign language.

My recommendation is that Dr. Krasimira Kirilova continue research in the selected direction and that the developments be presented in international specialized publications in SCOPUS and Web of Science in order to gain greater publicity.

9. Conclusion

Given the above, my assessment of the scientific and pedagogical activities of Dr. Krasimira Kirilova is positive. The materials proposed to me for opinion are sufficient in volume and content. The scientific production of the applicant has sufficient contributions and is promoted in scientific publications. Based on my knowledge is the scientific papers presented, their importance, the scientific and applied and applied contributions contained therein, I find it reasonable to propose Chief Assist. Dr. Krasimira Kuneva Kirilova to take the academic position "Associate Professor" in professional field 5.7 Architecture, civil engineering and geodesy (General, higher and applied geodesy).

4. 11. 2020

Member of the jury: 
/ Professor Dr. Eng. Rosalina Dimova /