



OPINION

by Assoc. Prof. Dr. Eng. Evgeni Grishev Stoykov
by University of Shumen "Bishop Konstantin Preslavski"
e-mail: e.stoykov@shu.bg

on a competition for academic position "Professor" in the field of higher education 5. "Technical Sciences", professional field 5.7. "Architecture, construction and geodesy" (Photogrametry and Remote Methods) in the Department of Geodesy, Faculty of Technical Sciences of the University of Shumen "Bishop Konstantin Preslavski", announced in SG, issue 41/03.06.2022

Candidate: Assoc. Prof. Dr. Eng. Kiril Filipov Yanchev

Reason: Order No RD-16-174/31.08.2022 of the Rector of the University of Shumen "Bishop Konstantin Preslavski".

1. Biographical data

Associate Professor Dr. Eng. Kiril Filipov Yanchev has acquired a Master's degree in the specialty "Geodesy" (Geomatics) at the University of Shumen "Bishop Konstantin Preslavski" in 2013. In 2015 he graduated from the Higher Transport School "Todor Kableshkov" Sofia and earned a master's degree in the specialty "Transport construction".

In 2017 he defended his dissertation on the acquisition of Educational and Scientific Degree "Doctor" in professional field 5.7. Architecture, construction and geodesy (General, higher and applied geodesy) with the theme of the dissertation work: "Study of the influence of geodynamic processes on geodetic measurements and networks".

From 2019 to now he held successive academic positions "Chief Assistant" and "Associate Professor" in the Department of Geodesy at University of Shumen „Bishop Konstantin Preslavski“.

2. Assessment of the applicant's pedagogical training and activities

Associate Professor Dr. Kiril Yanchev lectures in basic subjects of students from the specialty "Geodesy", Educational qualification degree "Master" (After secondary education) at the University of Shumen "Bishop Konstantin Preslavski". He participated in the development and developed curricula, curricula and accreditation documents himself.

Associate Professor Dr. Kiril Yanchev has many years of practical experience in the field of geodesy, and his professional activity began in 1993.

This is sufficient reason to assume that the applicant has the teaching qualities and skills that he applies in his or her academic activity.

3. General characteristics of the applicant's scientific-research and scientific-applied activities

According to the announced competition for "Professor" the candidate has presented 19 publications of which – 1 monograph, 14 articles and reports and 4 textbooks. The submitted report lists 34 citations of the candidate's work.

The candidate has participated in 4 projects, 3 internal university and 1 national.

Associate Professor Dr. Kiril Yanchev according to the author's report, defined the following contributions in the field of photogrametry and remote methods:

- Mathematically and experimentally, the basic principles of ground laser scanning are justified, on the basis of which the ways of improving the accuracy of measurements with ground laser scanners are theoretically proven and studied;

- A theory of photogrametric data processing from laser scanning was developed, based on the use of the package method for leveling the scanner's passages, which allows to increase the accuracy of determining the elements for external orientation to 35% compared to other methods;

- A theoretical and methodological justification of ground laser research processes has been developed, which is the basis of universal technology for its production, determination of parameters of research and tolerances for monitoring the accuracy of the ground laser observation processes, as well as assessing the accuracy of the finished product;

- A universal method for checking ground-based laser scanners has been developed, which allows the implementation of metrological certification of all types of phase and pulse ground laser systems;

- A theoretical and methodological justification of the ground laser testing process has been developed, which is based on universal technology for work in progress, determined by the test parameters and the observation tolerances for accuracy of the ground-based process distortion, laser monitoring and accuracy assessment of the finished product.

According to the submitted Reference for implementation of the minimum national requirements under Art. 2b(2) and (3) of the LDASRB professional direction 5.7. Architecture, construction and geodesy (Photogrametry and remote methods) for the academic position "Professor", Assoc. Prof. Dr. Eng. Kiril Filipov Yanchev achieved 612 points at a required minimum of 600 points as follows:

Group A – 50 points

Group V – 100 points

Group G – 200 points

Group D – 102 points

Group E – 160 points

I accept the contributions of the applicant, which are of a research and scientifically applied nature and relate to:

- in addition to the existing theory, methodology and enrichment of existing knowledge;

- application of scientific advances in practice.

4. Critical notes and recommendations

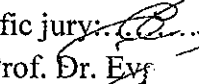
I do not have critical notes, but I recommend that the candidate direct his or her efforts to publications in specialized foreign scientific forums and journals indexed in global scientific databases.

5. Conclusion

The analysis carried out in the opinion of the teaching, research and other activities of the Assoc. Prof. Dr. Eng. Kiril Filipov Yanchev shows that the requirements of the LDASRB, the RILDASRB, as well as the Rules of Development of Academic Staff at the University of Shumen to hold the academic position of "Professor".

In view of the above, I propose to the Dear Scientific Jury on the competition to vote positively, Assoc. Prof. Dr. Eng. Kiril Filipov Yanchev to take up the academic position "Professor" in the field of higher education: 5. Technical sciences, professional direction 5.7. Architecture, construction and geodesy (Photogrametry and remote methods) in the Department of Geodesy, Faculty of Technical Sciences of the University of Shumen "Bishop Konstantin Preslavski".

14.10.2022 г.
Shumen

Member of the scientific jury: 
/Assoc. Prof. Dr. Eng. /