



## HIGHER NAVAL SCHOOL "N. Y. VAPTSAROV"

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**"FILII MARIS SUMUS"**

### REVIEW

on a competition for academic position "professor"  
in the field of higher education 5. "Technical sciences", professional field 5.7.  
"Architecture, Construction and Geodesy" scientific specialty (Photogrammetry and Remote Methods), in the Department of "Geodesy" at the Faculty of Technical Sciences of Shumen University "Bishop Konstantin Preslavski"

The competition is announced in SG issue 41/03.06.2022.

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

**Prepared the review:** Prof. Dr. Eng. Yuri Ivanov Dachev, HNS "N. Y. Vaptsarov" - Varna

#### **1. General characteristics of the applicant's scientifically research and scientifically applied activity**

The only candidate for participation in the competition is Assoc. Prof. Dr. Eng. Kiril Filipov Yanchev. He is a Master of Engineering in Geodesy, graduating from Shumen University "Bishop Konstantin Preslavski" in 2013, and a Master of Engineering in Transport Construction, graduating from VTU "Todor Kableshkov" in 2015. In 2017, Assoc. Prof. Kiril Yanchev graduated doctoral studies in the scientific specialty "General, advanced and applied geodesy" at the "Bishop Konstantin Preslavski" university. His working career of 30 years was spent as a surveyor and designer in private geodetic companies and as an assistant, chief assistant and associate professor at the Department of Geodesy of Shumen University. All this has helped Associate Professor Kiril Yanchev to gain great practical experience, knowledge, pedagogical and research skills.

Proof of this is the scientific production presented by him and its thematic orientation and scope. For the "Professor" competition, the candidate submitted 1 monograph, 14 publications in peer-reviewed non-refereed journals, 34 citations in peer-reviewed monographs and collective volumes, and 4 textbooks. In 6 of the presented

publications and in all textbooks, he is an independent author, which is an important certificate of his maturity as a researcher and teacher.

In accordance with the above, I consider that the requirements for the quantitative parameters and the qualitative characteristics, which should be met by the scientific-research and scientific-applied activity of the candidate for "professor", are fully satisfied. Associate Professor Kiril Yanchev fulfills the minimum national requirements under Art. 26, para. 2 and 3 of LDASRB for "professor" in field 5. Technical sciences, collecting a total of 612 points.

## **2. Assessment of the applicant's pedagogical training and activity**

Through participation in various forms of expanding and deepening one's qualifications (certificates for working with graphic editors and specialized software) and through membership in prestigious organizations (IEEE, SMS), a solid professional training was realized and competences were acquired, confirming Assoc. Kiril Yanchev as a teacher and researcher with enduring interests and in-depth knowledge. These efforts and his professional attitude to work receive a high evaluation, which is expressed in a well-deserved authority not only among the academic community of Shumen University, but also among specialists from a number of institutions in Bulgaria.

Assoc. Prof. Kiril Yanchev is a well-established teacher, delivering lectures and exercises on basic academic disciplines in the "Geodesy" department - Geoinformatics, GIS Design, Vertical Planning, Applied Geodesy, Regulations, Pre-Diploma Practice, etc. They are in the direction of the competition. In addition, Assoc. Prof. Yanchev annually supervises graduate students on topics in the direction of the competition. He actively participates in the development of curricula, study plans, reports on accreditation of the specialty, etc. The acquired knowledge, skills and experience were actively used through the participation and leadership of Assoc. Prof. Yanchev in a number of educational and scientific projects:

- Research the effectiveness of GNSS technologies in RTK mode, together with mobile GIS, for the needs of the cadastre;
- Study the application of remote methods and technologies in the mapping of spatial objects;
- Modernization, digitalization and internationalization of education in the professional direction "Architecture, Construction and Geodesy" at the University of Mining and Geology "St. Ivan Rilski;
- Laboratory for testing topologies and communications, etc.

These facts are the basis for the categorical assessment that Associate Professor Kiril Yanchev possesses modern teaching qualities and skills, which he creatively applies in his academic activity.

## **3. Main scientific and scientifically applied contributions**

From the detailed analysis of the presented scientific production, I consider that the scientific research reflected in it has a systematic nature and is a synthesis of the creative searches and the scientific-pedagogical improvement of the candidate for the academic

position of "professor". The results of his research work derive from purposeful activity in which the real needs of science and practice take center stage.

An important place in the scientific output of the candidate is occupied by the presented monograph "Laser scanning - the achievable precision in the field of photogrammetry, remote sensing and geodesy". In it, Prof. Yanchev makes a thorough theoretical analysis, through which he presents his original views on the tasks and problems of laser scanning in photogrammetry and geodesy. The monograph has originality, which, combined with the scope and depth of the research, defines it as a product of high importance for the scientific, educational and practical spheres.

The second sector in scientific production is represented by articles and scientific reports, which are thematically united and present the results of scientific research in the field of laser scanning for the needs of geodesy and geographic information systems. In this direction of scientific interests and searches, important scientific-applied and applied contributions and original practical solutions are formed. The skillful combination of theoretical and empirical analysis has allowed the candidate to achieve very good results.

The candidate's achievement is also the successful reflection of the results of his research activity in the presented educational materials - 4 textbooks. This third sector presents the candidate in the light of a university professor. Their content shows that he has an excellent command of the taught academic disciplines. I confirm that the stated claims for contributions, correctly formulated and synthesized, reflect the results of the author's scientific and applied research.

#### **4. Importance of contributions to science and practice**

For the importance of the applicant's contributions to science and practice, I should note:

- three articles of the candidate have been published in the American magazine "Journal scientific and applied research", licensed in the world database EBSCO;

- The scientific reports have been presented at authoritative scientific forums and conferences: MATTECH and Yearbooks of Shumen University "Bishop Konstantin Preslavski";

- The presence of 34 citations by other researchers indicates that the results of the research activity of Prof. Kiril Yanchev are positively evaluated and used in professional circles. He is recognizable in the professional space in Bulgaria.

#### **5. Critical notes and recommendations**

I recommend the candidate to publish the results of his scientific research in foreign journals and in proceedings of scientific conferences, indexed in the world-famous Scopus and WoS databases. In this way, he will promote his results even more outside of Bulgaria, which will give opportunities for his publications to be cited by many foreign authors.

## 6. Conclusion

In summary of what has been stated, I declare that with the scientific production presented and the educational and teaching activities carried out, the candidate for the academic position "Professor" Assoc. Prof. Dr. Eng. Kiril Filipov Yanchev satisfies the requirements for occupying academic positions at the Shumen University "Bishop Konstantin Preslavski" and the minimum national requirements under Art. 26, para. 2 and 3 of LDASRB for "professor" in Field 5. Technical sciences.

With responsibility, I consider it justified to propose the candidate Assoc. Dr. Eng. Kiril Filipov Yanchev to occupy the academic position of "Professor" in the Department of "Geodesy" at the Faculty of Technical Sciences of Shumen University "Bishop Konstantin Preslavski"

**13. 10. 2022**

**VARNA**

**MEMBER OF THE JURY: .....**

**(Prof. Dr. Eng. Yury L. .... V)**