



Faculty of Technical Sciences

Department of „Geodesy“

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 (Cartography (incl. thematic geographical mapping)) in the Department of Geodesy at the Faculty of Technical Sciences of the University of Shumen "Bishop Konstantin Preslavski".

The competition is announced in SG No. 64/03.08.2021
Candidate: Assoc. Prof. Dr. Eng. Sabin Ivanov Ivanov

**Produced the review: Assoc. Prof. Dr. Eng. Plamen Mihaylov Mihaylov
by Shumen University "Bishop Konstantin Preslavski"**

Grounds for preparation of the review:

1. Order No RD-16-143 of 29.09.2021 of the Rector of the Shumen University "Bishop Konstantin Preslavski" for the appointment of the composition of a scientific jury for the conduct of the issue announced in the SG. 64/03.08.2021 competition for academic position "Professor" in the field of higher education 5. Technical Sciences, professional field 5.7. Architecture, Construction and Geodesy (Cartography (incl. thematic geographical mapping)) in the Department of Geodesy at the Faculty of Technical Sciences of the University of Shumen "Bishop Konstantin Preslavski".

2. Protocol of the first meeting of the scientific jury on the procedure for conducting the issue announced in SG No. 64/03.08.2021 competition for academic position "Professor" in the field of higher education 5. Technical Sciences, professional field 5.7. Architecture, Construction and Geodesy (Cartography (incl. thematic geographical mapping)) in the Department of Geodesy at the Faculty of Technical Sciences.

3. Reference to the fulfilment of the minimum national requirements under Art. 26, para. 2 and 3 and the requirements of Art. 24 by LDASRB of assoc. prof. Dr. Eng. Sabin Ivanov Ivanov.

1. General characteristics of the applicant's scientific-research and scientific-applied activity

The only candidate to participate in the competition is Assoc. Prof. Dr. Eng. Sabin Ivanov Ivanov. He graduated in 2002 from the NMU "V. Levski", Shumen Faculty, specialty GFC. From 2002 to 2008 he worked at the Military Geographical Institute of the Ministry of Defence, Troyan.

Until 2010 he worked as a surveyor engineer. Since 2014 he has been an assistant, chief assistant and associate professor in the Department of Geodesy of University of Shumen. In 2017 he defended his dissertation on "Mapping and analysis of the cultural and historical heritage of Shumen region" and received an educational and scientific degree doctorate. In 2019 he was selected as "Associate Professor" in the professional field 5.7 Architecture, Construction and Geodesy, scientific specialty Cartography (incl. thematic geographical mapping).

The career and creative development of Assoc. Prof. Dr. Sabin Ivanov is relatively short, but on the other end he has extensive practical experience, which allows him to cope with the challenges of scientific and research work. This is reflected in the scientific production presented by him and its thematic focus and scope. These are 4 publications for the ESD "Doctor", 11 publications, one monograph, participation in 7 scientific projects and 17 citations in collective volumes with scientific review in the competition for "Associate Professor" and one monograph, 21 scientific publications in unreferenced journals with scientific review or in edited collective volumes, 29 citations in collective volumes with scientific review, 8 citations in unreferenced journals with scientific review, 2 university textbooks and 4 university teaching tools - for the competition for "Professor".

With regard to authorship, I believe that the individual publications submitted (7), which are the smaller part of its scientific output, and collective developments (14) are in balance. It is good that the candidate also carries out independent publications and works, but he also participates in collective publications and scientific projects, where he shares his own scientific and practical-applied ideas..

In accordance with this, I believe that the requirements for the quantitative parameters and qualitative characteristics to be met by the research and applied activities of the candidate for "Professor" are fully satisfied. Assoc. Prof. Dr. Sabin Ivanov fulfils the minimum national requirements under Art. 26, para. 2 and 3 of the LDASRB for "Professor" in area 5. Technical sciences, collecting a total of 613.32 points.

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

I have direct impressions of the teaching work of Assoc. Prof. Dr. Sabin Ivanov in the Department. Besides, he's my student, then a PhD student in the department, and I'm aware of all his academic growth.

Through participations in various forms for expansion and deepening of their qualification and through the membership of the USB (Union of Scientists in Bulgaria) solid professional training has been realized and competences have been acquired, endorsing Assoc. Prof. Dr. Sabin Ivanov as a lecturer and scientific researcher with lasting interests and in-depth knowledge. These efforts and professional attitude to his work bring well-deserved authority among the academic community of University of Shumen and among the specialists from a number of institutions in Bulgaria.

Assoc. Prof. Dr. Sabin Ivanov is an established lecturer giving lectures in basic subjects of students, specialty "Geodesy", "Bachelor" and "Master" in University of Shumen. Lecture courses are in the direction of the competition, with a large part provided with literature prepared and with the participation of the candidate. The formed knowledge, skills and experience are actively used through the participation and leadership of the candidate of a number of educational projects – the development of School Programs, participation in the development of School plans, participation in accreditations of the specialty, etc. These facts provide the necessary basis for the firm assessment

that Assoc. Prof. Dr. Sabin Ivanov possesses modern teaching qualities and skills, which he creatively applies in his academic activity.

3. Main scientific and scientific-applied contributions

From the detailed analysis of the presented scientific production, I consider that the research reflected in it is of a systemic nature and is a synthesis of the creative searches and the scientific-pedagogical improvement of the candidate for a second habilitation. The results of the research work stem from a targeted activity in which real needs of science and practice take center stage.

An important place in the scientific production of the candidate is the presented monograph "Modern Technologies in Cartography", co-authored with P. Kastreva and B. Stoyanov. This is an in-depth theoretical analysis, through which the condition and original views of Assoc. Prof. Dr. Sabin Ivanov on the tasks and problems of modern technologies in cartography. The monograph has originality, which, combined with its scope and depth, defines it as a scientific 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 combined and present the results of research in the field of cartography and thematic cartography. In this direction of scientific interests and searches, three important scientific-applied and applied contributions, as well as original practical solutions, have been formed.

The achievement of the candidate is also the successful coverage of the results of the research in the submitted publications with a learning focus. This third sector represents the candidate in the light of a university lecturer.

Last but not least in the scientific production of the candidate are published 2 university textbooks (Mathematical Cartography I Part and Mathematical Cartography II part) and 4 university teaching tools: Guide to working with a topographic map, Guide to exercises in geodesy Part I, Guide to Exercises in Geodesy II part and Guide to mapping of cultural and historical sites. Their content shows that he is fluent in the teaching disciplines – "Topographic cartography I part", "Topographic cartography Part II", "Geodesy Part I", "Geodesy Part II", "Cartography I Part", "Cartography Part II", Transformation of Map Images.

I confirm that the claims made for contributions formulated correctly reflect the results of the author's scientific-applied and applied research.

4. Importance of contributions to science and practice

For the importance of the applicant's contributions to science and practice, it should be noted:

- The articles are published in reputable foreign and Bulgarian journals: "Journal scientific and applied research" (USA), "Journal of the Bulgarian Geographical Society" and "Geodesy, Cartography and Land Planning";

- The scientific reports are presented in authoritative scientific forums in Bulgaria – "MATTEX" and the Yearbook of the Shumen University;

The presence of over 30 citations by other authors indicate that the results of the research activities of Assoc. Prof. Dr. Sabin Ivanov are positively evaluated and used in professional circles. He is recognizable in the professional space in Bulgaria.

5. Critical notes and recommendations

Many of the 37 citations submitted for the competition are to his colleagues in the department. My recommendation to Assoc. Prof. Dr. Sabin Ivanov is to direct his efforts to publish

in specialized foreign scientific journals indexed in global scientific databases, such as SCOPUS and WOS, because his research in the field of cartography really deserves high appreciation and will be of interest abroad. This will lead to the citation of his publications and by foreign authors, which for now is lacking in his scientific production.

6. Conclusion

In summary of the fore, I declare that, with the scientific production presented and with his educational activity, the candidate Assoc. Prof. Dr. Sabin Ivanov satisfies the requirements of the LDASRB and the University of Shumen for the academic position "Professor", as well as the ucometric indicators.

I find it reasonable to suggest the candidate, Assoc. Prof. Dr. Sabin Ivanov Ivanov to take up the academic position "Professor" in the Department of Geodesy of University of Shumen „Bishop Konstantin Preslavski“ in professional field 5.7. "Architecture, construction and geodesy" (Cartography (incl. thematic geographical mapping)).

26. 10. 2021

SHUMEN

MEMBER OF THE JURY:

(Assoc. Prof. Dr. Eng. Plamen Mihaylov)