



FACULTY OF TECHNICAL SCIENCES

OPINION

by Assoc. Prof. Eng. Ognian Momchilov Fetfov
University of Shumen, Department of „Communication and Computer Engineering“ of the materials presented for participation in the competition for the academic position „associate professor“, field of higher education 5. „Technical sciences“, professional field 5.7. „Architecture, Civil Engineering and Geodesy“, scientific specialty „Cartography (including thematic geographic mapping)“

At the „Associate Professor“ competition, promulgated in State Gazette, no. 21 / 12.03.2019 and the site of Shumen University „Episkop Konstantin Preslavski“ for the needs of the Faculty of Technical Sciences, one candidate - Ch. Ass. Sabin Ivanov Ivanov from the University of Shoumen „Episkop Konstantin Preslavski“.

1. Brief biographical data

Chief Assist. Eng. Sabin Ivanov Ivanov was born in the town of Popovo. He graduated from high school „Kliment Ohridski“ - Popovo.

During the period 1997-2002 he graduated from Higher School of Military „P. Volov“ - Shoumen, specialty „Geodesy, Photogrammetry and Cartography“.

Since 2014 he has been the assistant and assistant professor at the Department of Geodesy at the Faculty of Technical Sciences of the University of Shumen.

In 2017 he defended a PhD thesis on „Cartography (including thematic geographic mapping)“ on „Mapping and Analysis of the Cultural and Historical Heritage of the Shumen Region“.

2. General description of the materials presented

Candidate Ch. Ass. Sabin Ivanov Ivanov participated in the "Doctor" competition with 12 scientific products, of which: 1 pc. monograph, 1 pc. dissertation, 10 papers and papers.

Referring to the parameters laid down in Article 2b, para. 2 and 3 of the PRADA on the minimum national requirements for applicants in a professional field 5.7. "Architecture, Civil Engineering and Geodesy", the materials can be classified as follows:

- Group of Indicators A, Indicator 1 "Dissertation assignment for awarding the NSA Doctor" - 50 points when needed 50 - is responsible;
- Group of indicators C, Indicator 3 "Habilitation work-monograph" - 100 points at the required 100 - is responsible;
- Group of indicators D, Indicator 8 "Scientific publication in non-referenced journals with scientific review or in edited collective volumes" - 200 points at the required 200 - corresponds;
- Group of indicators E, Indicator 13 "References in monographs and collective volumes with scientific review" - 51 points when necessary 50 - responds;

Number of Co-authors:

All scientific papers of the candidate for participation in the Doctor's competition are independent.

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

In the report, the candidate cited 17 citations in reports from other authors.

4. A general characteristic of the applicant's activity

4.1. Educational and pedagogical activities

The candidate has been conducting classes with Geodesy students in more than 10 disciplines from 2014 until now, and has developed training materials for one of the taught disciplines, the „Handbook for Working with a Topographic Map“, issued by the University Publishing House „Ep . K. Preslavsky“ ISBN 978-619-201-239-7.

Chief Assist. Dr. Sabin Ivanov Ivanov participated in the construction and equipment of the laboratory and educational base of the Department of Geodesy.

He has participated in the training of students as a course supervisor, academic mentor (Project BG05M20P001-2.002-0001 of the Ministry of Education and Science). He has led students and is involved in organizing and conducting student scholarly forums. The applicant has lectured on Erasmus + at one university abroad.

The overall teaching activity of the candidate, as well as my immediate impressions of him as a deputy, dean of the Faculty of Technical Sciences, give me the conviction to conclude that Ch. Ass. Sabin Ivanov has participated fully in the educational process and research activities of the department „Geodesy“.

4.2. Scientific and applied research

The candidate has participated in national and international scientific forums with reports as well as in 8 research projects.

He is a member of the Union of Scientists in Bulgaria and of the IEEE Club at Shumen University.

4.3. Implementation activities

The applicant participated in the construction of a Laboratory of Photogrammetry and Laboratory C3 „Geographic Information Systems“, as well as in the preparation of the Working Geodetic Base of the Studentski Park in Shumen.

4. 4. Contributions.

The main part of the candidate's scientific and scientific contributions falls within the theme of the competition and confirms his merits as a lecturer and scholar. In summary, contributions can be classified as follows:

Contributions to the monographic work „Contemporary Aspects of Mathematical Cartography“:

Scientific: Tendencies for the development of mathematical cartography are justified by analysis of the theoretical principles and the contemporary practical methods for their application.

Scientifically applied: It is possible to choose and define the basic parameters of the map projections. The capabilities of modern GIS for automated projection selection and methods for mapping transformation are also defined.

Contributions to publications outside monographic work:

In Mathematical Cartography:

- There is a new approach to calculating the starting angle when calculating a backslash through the sinews and cosines of the measured horizontal angles.

In the field of mapping:

- 3D technology for object mapping has been developed and basic technological principles have been formulated to develop concepts for the preservation, maintenance and operation of sites of cultural and historical heritage;

In the field of training methodology:

- A Methodologically Supported „Topographic Map Guide“ is proposed.

5. Assessment of the applicant's personal contribution

From the presented materials, reflecting the academic, scientific and scientific application of the applicant, the following can be summarized:

- Candidate Ch. Ass. Sabin Ivanov has proven academic and research skills;
- the publicity activity of the candidate gives grounds to claim that his scientific achievements have become known to the Bulgarian and foreign scientific community;
- the analysis of the publications gives a clear idea of the themes of research, their interrelationship and specificity, and confirms the author's style and contribution of Ch. Ass. Sabin Ivanov, PhD.

6. Critical remarks

After learning about the contest materials, I could make the following recommendations to the candidate for his future work:

- direct its publishing activity to referenced by bibliographic and reference databases and scientific forums.

7. Personal impressions

I know the candidate personally, Ch. Ass. Dr. Eng. Sabin Ivanov from the beginning of his academic career. He is a member of the academic staff of the Department of „Geodesy“ during the period when I was Deputy Dean of the Faculty of Education and Research. This gives me reason to convincingly claim that she has the necessary professional and personal qualities to take up the job.

8. Conclusion

The materials proposed for my opinion indicate that Ch. Prof. Ivan Sabanov, Ph.D., has completed the training and research activities required by the SRAPB and the Regulations for its application and meets the minimum national requirements for the candidates in the professional field of the competition. Published articles, reports, teaching materials and monographs, as well as the contributions made, prove that he is a scholar and teacher with a built style, abilities and competence.

Appreciating the overall activity of the applicant I am convinced that the results meet the requirements for taking an academic position „associate professor“.

In view of the above, I propose Ch. Assist. Sabin Ivanov Ivanov to be elected as a „Associate Professor“ in the field of higher education 5. „Technical sciences“, professional field 5.7. „Architecture, Civil Engineering and Geodesy“, scientific specialty „Cartography (including thematic geographic mapping)“ at the University of Shoumen „Episkop Konstantin Preslavski“.

05.06.2019

Member of the Scientific Jury:

Assoc. Prof. Eng..... Ognian Fetfov