

KONSTANTIN
PRESLAVSKY
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SHUMEN



UNIVERSITY OF SHUMEN
"BISHOP KONSTANTIN PRESLAVSKY"

REVIEW

by Associate Professor Dr. Eng. Plamen Mihaylov Mihaylov
internal member of a scientific jury - reviewer

Subject: Competition for academic position "Associate Professor" in the field of higher education 5. "Technical Sciences", professional field 5.7. "Architecture, civil engineering and geodesy " (General, Higher and Applied Geodesy) for the needs of the Department of Geodesy at the Faculty of Technical Sciences of the University of Shumen "Bishop Konstantin Preslavski".

A. Reason for the review

A.1. Order № ПД-16-090 of 15.09.2020 of the Rector of the University of Shumen "Bishop Konstantin Preslavski" for the appointment of the composition of a scientific jury for conducting a competition for the academic position "Associate Professor" in the field of higher education 5. "Technical Sciences", professional field 5.7. "Architecture, civil engineering and geodesy " (General, Higher and Applied Geodesy) in the Department of Geodesy at the Faculty of Technical Sciences.

A.2. The competition is regularly announced in the State Gazette issue 63/17.07.2020, with a term of three months, for the needs of the Department of Geodesy at the Faculty of Technical Sciences of the Shumen University "Bishop Konstantin Preslavski".

A.3. The reviewer was selected by Decision of the first meeting of the scientific jury held on 29.09.2020 (Record №1).

A.4. The review complies with the requirements of the rules, procedures, criteria and requirements for holding academic positions in the Republic of Bulgaria and the University of Shumen.

B. Documents submitted by the candidate for participation in the competition

B.1. Application from the only candidate - Chief Assist. Dr. Kiril Filipov Yanchev, lecturer in the Department of Geodesy at the Faculty of Technical Sciences of the University of Shumen "Bishop Konstantin Preslavski".

B.2. Creative CV by Chief Assistant Dr. Kiril Filipov Yanchev, drawn up according to a European model.

B.3. Copy of diploma № 33171/10.10.2011 of the University of Shumen, Higher Education, Bachelor's degree.

B.4. Copy of diploma № 42054/01.08.2013 of the University of Shumen, Higher Education, Master's Degree.

B.5. Copy of diploma № D-124/14.07.2017 University of Shumen for the educational and scientific degree "Doctor".

1. Short biographical data about the applicant

Chief Assistant Dr. Kiril Filipov Yanchev was born on January 23, 1970 in the town of Blagoevgrad, Blagoevgrad region. In the period 2008 - 2011 he graduated from the University of Shumen "Bishop Konstantin Preslavski", Faculty of Technical Sciences and graduated as a Bachelor - engineer in "Geodesy, Photogrammetry and Cartography". In 2013, he graduated again as a Master of Geodesy Engineer. In 2017 he graduated as a Master engineering in Transport Construction at the Todor Kableshkov University of Transport -Sofia. In the same year he defended his dissertation at the University of Shumen and received the educational and scientific degree "Doctor". From the beginning of 2017 to the end of the academic year 2016-2017 he was a chair lecturer in the Department of Geodesy of the Shumen University. From October 2019 until now after participating in a competition occupies the academic position "Chief Assistant" of the main employment contract at the University of Shumen, Department of Geodesy. He is a member of the Union of Scientists in Bulgaria – Shumen Branch. Fluent in foreign languages – Russian, at a free level of proficiency and English at the basic level.

2. General description of the submitted materials – articles, reports, instructions, scientific projects, textbooks and teaching tools, etc.

2.1. General characteristics of the applicant's scientific, scientific, applied and pedagogical activities

The candidate's work is systematized in **three parts**.

Part **One presents** scientific work – monograph, with which the candidate participates in the competition for "Associate Professor" - subject of the review.

The monograph is titled "Geodetic activities for monitoring and studying the modern movements of the Earth's crust" in a volume of 174 pages and contains an introduction, four chapters and a conclusion. With this work, a successful attempt was made to present a comprehensive overview of modern geodetic activities for monitoring and studying the movements of the Earth's crust at home and abroad. It allows you to familiarize yourself with the theoretical and practical stagings related to the monitoring and study of the movements of the Earth's crust. The monograph was developed at a very good scientific and methodical level. It is a completed scientific study providing theories, analyses, factual materials and results of empirical research related to the training at the University of Shumen "Bishop Konstantin Preslavski" in the specialty "Geodesy".

In the **second part** are presented works of the candidate - articles, reports after receiving the educational and scientific "Doctor" a total of 11 pieces – 5 articles and 6 reports of participation in scientific forums. In the third part participation in scientific projects – 5 pieces.

2.2. Scientific and scientifically applied activity of the candidate

Chief Assistant Dr. Kiril Filipov Yanchev participates in the competition with achievements in scientific and scientific and applied activities as follows:

- **total number of publications** (articles, reports and other printed publications) – **12 pc.**

-Articles – 5 pieces, 3 pieces alone in a magazine that is referenced and published abroad (Journal scientific and applied research, licensed in EBSCO – USA and 2 pieces in the Journal of "Geodesy, Cartography and Land Management" co-authored;

- Reports – a total of 6 pieces in Bulgaria - 1 number of matthech conferences with international participation; 5 pieces in the Yearbook of the Faculty of Technical Sciences. All reports are independent;

- Monograph 1 issue (printed in Shumen University "Bishop Konstantin Preslavski").

- Total number of scientific projects – 5 pieces, internal university projects;
- Reflection of the applicant's scientific publications in literature (citations):

A total of 17 citations from other authors are presented: 2 reports, which are cited by three authors in 17 publications.

2.2. Educational and pedagogical activities (working with students)

Chief Assist. Dr. Kiril Filipov Yanchev in the 2019/2020 school year has held classes at the University of Shumen in the following disciplines: "Geoinformatics", "Geodesy Modelling", "Vertical Planning", "Urban Spatial Planning", "Urban Movement and Street Design", "Study of Geodynamic Phenomena with Geodynamic Methods", "Physical Geodesy and Gravimetry" and "Regulations", all for specialty Geodesy (regular training - masters).

*According to the reviewer, the materials presented by the applicant for scientific and pedagogical activity **dominate the achievements in scientific and scientific application**. Such are the modern requirements of the National Evaluation and Accreditation Agency and the Ministry of Education and Science to stimulate the research activities of **university lecturers, as enshrined in the Strategy for the Development of Higher Education in the Republic of Bulgaria until 2014-2020**.*

3. Achievements

Claims for contributions of the applicant are summarised thematically with reference to the relevant publications by the number from the annexed list. From that list, I only review achievements that have not been peer-reviewed in previous competitions for scientific degrees and scientific titles.

In general, contributions can be summarised as follows.

3.1. High geodesy

- A monograph is presented, which examines the modern aspects of geodetic activities for monitoring and studying the modern movements of the Earth's crust.. In addition to the theoretical decrees for the study of the movements of the Earth's crust, mathematical modeling and interpretation of results of precise geodetic measurements is presented.

- A successful transfer has been made to modern geodetic measurements using GNSS and the possibilities they provide to study the movements of the Earth's crust.

- Attention is paid to geodetic methods for monitoring geodynamic polygons and sources of errors in re-levelling, angular and linear measurements.

3.2. Analyses, evaluations and results of research in the field of higher geodesy.

- In this direction are separated the scientific and applied contributions of the applicant in the field of **higher geodesy**. They present the candidate as a scientist who knows the theory and skillfully applies it in practical studies.

I acknowledge the contributions of the applicant, which are scientifically and scientifically applied and relate to:

- addition to existing theory and methodology and enrichment of existing

knowledge [Monograph], [5.1, 5.2];

- application of scientific advances in practice [5.3 – 5.10].

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 magazines: “Journal scientific and applied research” (USA) and „Geodesy, Cartography and Land Management ”;

4. Assessment of the applicant's personal contribution

In the field of scientific and scientific application, the applicant's personal contribution is clearly expressed, summarising the following.

- After receiving the educational and scientific degree "Doctor" has published 11 scientific papers;
- They were noticed after receiving the Educational Science Degree "Doctor" - a total of 17 citations from other authors.
- Participated in 5 research projects.

When using the educational and teaching-pedagogical activity for the specific contribution of the candidate, the following can be noted:

- There are prepared exercises on 5 lecture courses, which he conducts at the University of Shumen.
- He is a member of the Faculty Board of the Faculty of Technical Sciences of University of Shumen.

With regard to *publications and contributions*, I believe that *they are the personal work of the applicant* and are due to his/her abilities, his/her difficulty and the wide literary awareness of the researched scientific fields.

5. Critical notes and recommendations.

All 17 citations submitted for the competition are those of his colleagues from the department. My recommendation to Chief Assistant Dr. Kiril Yanchev is to focus his efforts on publishing in specialized foreign scientific journals indexed in global scientific databases, such as SCOPUS and WOS, because his research in the field of studying and monitoring modern movements of the Earth's crust really deserve 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.

I will make the following finding::

According to the Law on the development of academic staff in the Republic of Bulgaria, Regulations for implementation of the Law on the development of academic staff in the Republic of Bulgaria and Regulations for implementation of the Law on the development of academic staff in the Republic of Bulgaria of Shumen University, the candidate meets the terms and conditions for taking up the academic position "Associate Professor".

The report on the fulfilment of the minimum national requirements under Article 26(2) of the Law on the development of academic staff in the Republic of Bulgaria with the relevant evidence are (Table 2) [8]:

Indicator A Dissertation work – 50 points;

Indicator B Monograph – 100 points;

Indicator G 8 Scientific publications in unreferenced journals with scientific review or in edited collective volumes – 9 publications of 20 points and 2 publications of 10 points = 200 points;

Indicator D 13 Citations in monographs and collective volumes with scientific review – 17 citations by 3 points = 51 points.

A total of 401 points.

6. Personal impressions

I know Chief Assistant Dr. Kiril Filipov Yanchev as a hardworking, ambitious, highly erudite and student-respected teacher. His professional training is combined with lasting scientific interests and in-depth knowledge in the field in which he works. Maintains ethical and collegial relationships with teachers and scientists at home and abroad. I have been a reviewer of the dissertation work of Chief Assistant Dr. Kiril Filipov Yanchev for obtaining the educational and scientific degree "Doctor", to which I have definitely given a positive assessment.

7. Conclusion

The analysis carried out in the review of the teaching, research and other activities of Chief Assistant Dr. Kiril Filipov Yanchev **shows that the requirements** of the Law on the development of academic staff in the Republic of Bulgaria and Regulations for implementation of the Law on the development of academic staff in the Republic of Bulgaria of Shumen University to the candidate for the academic position "Associate Professor".

In view of the above, I propose to the Dear Scientific Jury on the competition to vote positively, Chief Assistant Dr. Kiril Filipov Yanchev to take up the academic position "Associate Professor" in the field of higher education 5. "Technical Sciences", professional field 5.7. "Architecture, civil engineering and geodesy" (General, Higher and Applied Geodesy) for the needs of the Department of Geodesy at the Faculty of Technical Sciences of the University of Shumen "Bishop Konstantin Preslavsky".

23 October 2020

City of Shumen

Reviewer:.....

Assoc. Prof. Dr. Eng. Pl. Mihaylov