

## OPINION

Authored by Assoc. Prof. Krasen Kirov Angelov, PhD, Technical University of Gabrovo

**Concerning scientific works submitted for participation in competition for awarding the academic position of “Professor” in the field of higher education 5. Technical Sciences, professional field 5.3. Communication and Computer Engineering, scientific specialty “Communication Networks and Systems”, (“Signals and Systems”, “Radio communication equipment”)**

In the competition for „Professor“, announced in the State Gazette, issue 50/15.06.2021 and on the website of TU – Gabrovo for the needs of the Department of “Communication Equipment and Technologies” at the Faculty of Electrical Engineering and Electronics as a single candidate participates

**Assoc. Prof. Stanimir Mihaylov Sadinov, PhD – Technical University of Gabrovo.**

### **1. An overview of the content and results of the submitted works**

Assoc. Prof. Stanimir Mihaylov Sadinov, PhD, participated in the competition for academic position “Professor” with a total of 37 publications (indicators B.4, Г.7 and Г.8), 2 published textbooks (indicator E.23) and 2 published teaching aids (indicator E.24).

The candidate's publications can be classified as follows:

- 27 scientific publications in editions, which are referenced and indexed in world-famous databases of scientific information, 3 of which are articles in journals with an impact factor (Journal “Elektronika ir Elektrotehnika” - IF: 1,128, Journal “Electronics and Electrical Engineering” - IF: 0,647, Proceedings of The Bulgarian Academy of Sciences - IF: 0,378), and 14 are publications with “SJR factor”;
- 10 scientific publications in journals with scientific review or in edited collective volumes, which are not indexed in Scopus;
- 6 publications are in Bulgarian language and 31 – in English language;
- 1 individual publications, 36 – in co-authorship, and in 11 of the publications the candidate is the first author.

The candidate's scientific publications can be divided into three thematic areas: Signals and Systems [B4.3, B4.7, B4.8, B4.10, B4.14, Г7.2, Г7.3, Г7.7, Г7.11, Г7.12 and Г8.5], Radio Communication Equipment and Radio Broadcasting [B4.5, B4.6, Г7.1, Г7.4, Г7.6, Г7.8, Г7.10, Г7.13, Г8.6, Г8.7 and Г8.9], Optical and Cable Communication Networks [B4.1, B4.2, B4.4, B4.9, B4.11, B4.12, B4.13, Г7.5, Г7.9, Г8.1, Г8.2, Г8.3, Г8.4, Г8.8 и Г8.10].

Proof of the candidate's scientific contributions are 20 citations of his publications by other authors in scientific journals, referenced and indexed in world-famous databases with scientific information.

The results of research activity of Assoc. Prof. Stanimir Sadinov, PhD fulfill the national quantitative indicators as well as the requirements of the Technical University - Gabrovo for occupying the academic position of “Professor”, grouped respectively in indicators B, Г, Д and E.

### **2. General characteristics of the candidate's activities**

#### **2.1. Educational and pedagogical activity**

Assoc. Prof. Stanimir Mihaylov Sadinov, PhD, has been working in the Department of Communication Equipment and Technologies at the Technical University of Gabrovo since

2000, gradually passing through the positions of “Assistant”, “Senior Assistant” (since 2003), “Chief Assistant” (Since 2005) and “Associate Professor” (since 2009).

Over the last 5 years, Assoc. Prof. Stanimir Sadinov, PhD has been a lecturer in the disciplines “Television Equipment”, “Radio Communication Equipment” and “Signals and Systems” in the Bachelor's Degree for specialty “Communication Engineering and Technology”, as well as in the disciplines “Satellite Communication Systems”, “Cable Television Networks” and “Broadband Mobile Networks ”in the Master's Degree for the specialty “Communication Engineering and Technology”.

Assoc. Prof. Stanimir Sadinov, PhD is a co-author of 2 textbooks and 2 teaching aides in and he has developed methodological materials for e-learning in the disciplines led by him.

He is the compiler of curricula in 10 disciplines included in the curriculum for the newly created in TU - Gabrovo specialties “Communication Technologies and Cybersecurity” and “Digital Administration” in the Bachelor's Degree.

For the period from 2009 until now, Assoc. Prof. Stanimir Sadinov, PhD was supervisor of a total of 170 graduates and 8 doctoral students, 4 of whom have defended dissertations and obtained educational and scientific degree “Doctor” in the doctoral program “Communication Networks and Systems”.

He has participated in the preparation of student teams with developments presented at the national competition-exhibition “Youth Technical Creativity“ – Gorna Oryahovitsa, “Gabrovo Innovation Camp” - Gabrovo and “European Researchers' Night” at TU - Gabrovo .

## **2.2. Scientific and scientific-applied activity**

Assoc. Prof. Stanimir Mihaylov Sadinov, PhD has participated in 4 international projects, 2 national projects under the Operational Program “Science and Education for Smart Growth“ and 2 national projects under the national “Scientific research” fund of Ministry of Education and Science, as well as in 4 university research projects, three of which he was the head of.

The candidate is a member of the program committees of the International Scientific Conference UNITECH (TU - Gabrovo) and the National Scientific Conference TechCO 2021 (TC - Lovech), a member of the Scientific Committee of the International Scientific Conference Sinteza, Belgrade (Singidunum University) and a member of the editorial board of the journal “Journal of Communications, Information, Electronic and Energy Systems” (The Journal of CIEES), Bulgaria.

## **2.3. Implementation activity**

The candidate's implementation activity is related to a contract with NAVTECH GROUP EOOD for research of the possibilities for implementation of the product “Balanced System of Efficiency Indicators” of a project under procedure BG161PO003-1.1.07 “Implementation of Innovations in Enterprises” under OP “Competitiveness”. As a result of the supervision of graduates and doctoral students, various demonstration and experimental models and platforms in the field of radiocommunication networks and systems and signal processing have been introduced in the educational process.

## **3. Contributions (scientific, scientific-applied, applied)**

Analyzing the submitted materials for preparation of an opinion, the declared contributions can be summarized as scientific-applied and applied. They are the result of the candidate's research activity and are widely popularized through his research and publication activities - a large number of citations have been registered and it is evident that Assoc. Prof. Stanimir Sadinov, PhD has a “Hirsch factor”  $h = 4$  in the SCOPUS database.

I accept the stated contributions of Assoc. Prof. Stanimir Mihaylov Sadinov, PhD, and I reckon that they are sufficient to hold the academic position of “Professor“.

#### **4. Assessment of the candidate's personal contribution**

The independent publications of Assoc. Prof. Stanimir Sadinov, PhD and the leading author's position in a large number of other scientific publications are proof of the individual contribution of the candidate in the implemented research and presented results of scientific and applied nature.

#### **5. Critical remarks and recommendations**

I have no significant remarks and recommendations to the presented materials, but I can note the following: the formulated contributions are not summarized as scientific-applied and applied.

The educational, pedagogical and scientific activity of the candidate is undoubtedly at a high level. However, I would recommend the candidate to focus on publishing his results in major international journals with Impact Factor, as well as to more actively seek opportunities for practical implementation in business and monetization of the results of his research and applied development.

#### **6. Personal impressions**

I have known the candidate personally for more than 20 years, and I have immediate impressions of his scientific, pedagogical and organizational activities, which I can summarize in the following:

- Ethical, responsible, respected and highly valued at the professional and academic level by students, colleagues and university management;
- Has extensive experience as a scientific and administrative supervisor;
- Has well-developed skills for creating and managing research projects;
- Maintains a wide network of business contacts and contacts with other partner research organizations, which he actively uses for the needs of TU - Gabrovo;
- Actively maintains a high level of knowledge of technological innovations and developments in the field of communication technologies.

#### **7. Conclusion**

The documents submitted by the candidate in a competition for the academic position of "Professor" meet the requirements of the Law on the Development of Academic Staff in the Republic of Bulgaria and the regulations of the Technical University of Gabrovo.

**In view of the above, I propose Assoc. Prof. Stanimir Mihaylov Sadinov, PhD to be awarded the academic position of "Professor" in the field of higher education – 5. Technical Sciences, professional field – 5.3. Communication and Computer Engineering, specialty – "Communication Networks and Systems" ("Signals and Systems", "Radio communication equipment").**

21.10.2021

Member of the scientific jury: /signature/  
/Assoc. Prof. Krasen Angelov, PhD/