

# **O P I N I O N**

*from*

***Prof. Raycho Todorov Ilarionov, DSc,***

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***Faculty of "Electrical Engineering and Electronics",***

***Department of "Computers systems and technologies"***

**regarding the materials presented for participation in a competition  
for occupation of the academic position "Associate Professor"  
in the field of higher education – 5. Technical sciences,  
professionally direction 5.3 Communication and computer equipment,  
speciality "Communication networks and systems" (Communication  
and computer systems, Measurements in the communications)**

In the contest for "Associate Professor", announced in State Gazette, № 54 of June 25 2024 and on the Technical University of Gabrovo website for the needs of the Department of "Communications Equipment and Technologies" at Faculty of "Electrical Engineering and Electronics", as candidate participated Chief Assist. Prof. Georgi Ivanov Georgiev PhD - Technical University of Gabrovo

## **1. Overview of content and results in the presented works**

The scientific works presented by Chief Assist. Prof. Georgi Georgiev PhD, include 36 publications - 6 in Bulgarian and 30 in English; 1 handbook and 2 exercise laboratory manuals "Modeling and analysis of teletraffic processes in communications" and "Guide by telecommunications portable lines and optical communications" in co-authorship. According to the Regulations for the acquisition of scientific degrees and the occupation of academic positions at TU - Gabrovo, the following indicators are presented:

- Indicator "A" - 50 points: The candidate holds the educational science degree "doctor";
- Indicator "B", the candidate has presented a habilitation thesis with 10 publications included, referenced and indexed in world-renowned databases with scientific information - indicator "B.4". In connection with the specified metric, 217 points were achieved with a required minimum number of 100 items. Nine of the specified scientific works are papers of international conferences abroad and in Bulgaria "EEPES", "BIA", "Telecom" and "CIEES", one publication was published in an international foreign journal "MDPI Engineering Proceedings". Five of the works have Impact rank SJR (Scopus);

- Indicator "G": - a total of 14 publications in publications that are referenced and indexed in world-famous databases - indicator "G.7" 162.65 points, and 12 scientific works in non-refereed journals with scientific review or in edited author groups - indicator " G.8" 140.02 points. 4 of the publications are independent, while the rest are co-authored, of which 1 publication with an Impact factor in the " Journal of Electrical Engineering - Slovakia " and 6 with a reflected Impact rank SJR (Scopus). The published 26 scientific works fall into the category of "reports of international scientific conferences" abroad "Environment. Technologies. Resources" , "EEPES" and "ICEST" and Bulgaria "CIEES", "EAEIE", "BIA", "ET", "University of Ruse", "UNITECH" and " Knowledge , science , innovations , technologies "; category "specialized scientific publications" abroad "JESTR" and "IJIMA" and on the territory of the country "Annals of University of Telecommunications and Post" . The achieved success rate from indicator "G.7" and "G.8" is 302.67 points with a defined minimum threshold of 200 points.
- Indicator "D" Chief Assist. Prof. Georgi Georgiev PhD has presented a reference for 15 known citations of his publications in scientific publications, referenced and indexed in world-famous databases with scientific information - indicator "D.12" with a metric of 150 points, with a minimum of 50 points required 8 of the prepared list are foreign, and 7 are by Bulgarian authors.

## **2. General characteristic of the applicant 's activity**

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

Chief Assist. Prof. Georgi Georgiev PhD supervised 24 graduates from the "CET", "CTC" and "IM" specialties at the Bachelor's and Master's degree, participated as a part-time teacher in the "CET" department during the academic year 2018/2019 with guided laboratory exercises in the disciplines "DSP" and "DT" for the EQD "Bachelor" in the specialty "MSC" in the III and IV year. During the period 2019/2020 - 2023/2024, the candidate indicated information about the following taught disciplines "PUC" - 1st year; "CCS" and "SS" - II course; "MC", "DSP", "DC" and "TNP" III course ; "CC", "TN", "BT", "CME" and "AAIC" of IV year students from the "CET" and "CTC" specialties for "Bachelor" EQD. Currently Chief Assist. Prof. Georgi Georgiev PhD is a teacher of the disciplines "CCS" and "IC" in the undergraduate course and "IPS", "WBSCA" and "PMC" in the master's course. His activity in the scientific research activity carried out with the participation of students is 7 papers at the "Student Scientific Session" and with doctoral students 6 publications B.4.1, G.7.2, G.7.6, G.8.3 and G.8.4.

The candidate is the author of 1 textbook "Multiplex optical systems and networks" and 2 textbooks "Modeling and analysis of teletraffic processes in communications" and "Guide to telecommunications transmission lines and optical communications".

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

The materials present participation in 4 internal projects for the Technical University of Gabrovo at the UCNIT, one of which he is the head of, and in 1 partner project financed under the operational program "Science and Education for Smart Growth" - "Digitalization of the economy in a Big Data environment" with an implementation period of 2018 - 2023.

### **2.3. Implementation activity**

The applicant has not submitted documents confirming the implementation activity carried out, as well as information on created patents.

### **3. Contributions (scientific, scientific-applied, applied). Significance of Contributions for science and practice**

I accept the candidate's contributions as defined in this way as scientific, scientific-applied and applied. They also correspond to the materials submitted for review.

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

One from the indicators for the candidate's merit is his personal involvement in the specified above contributions. His scientific output is presented within national and international scientific journals and forums, which is a guarantee for achieved results. The rich educational and research activities are proof of a high level of professional competence. The content of the competition materials speak of a highly prepared specialist and leave no doubt that the applicant's scientific and applied contributions are an independent work or a team effort, but with his significant creative participation.

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

I have no significant comments regarding the applicant's submitted documents. I can make some recommendations related to:

- increasing its participation in national and international projects;
- publication in more specialized publications with an Impact factor.

### **6. Personal impressions**

Chief Assist. Prof. Georgi Georgiev, Ph.D., is a teacher at Technical University of Gabrovo. I can conclude that he has good competence and high professional training. This is confirmed by the high h-index 5 and the volume of citations 61 according to the scientometric reference in the world-famous Scopus database.

### **7. Conclusion**

The scientific production that offers the candidate in terms of volume and content for participation in the competition is sufficient as teaching and research work and significantly exceeds the required minimum for holding the position of "Associate Professor".

**Having in mind the above, I propose Chief Assist. Prof. Georgi Ivanov Georgiev, PhD to be elected as an "Associate Professor" in the field of higher education – 5. Technical sciences, professional direction - 5.3. Communication and computer equipment, specialty - "Communication networks and systems" (Communication and computer systems, Measurements in the communications)**

04.10.2024

Member of the scientific jury: /signature/

/Prof. Raycho Ilarionov, DSc/