

## OPINION

by Assoc. Prof. Eng. Tsanko Vladimirov Karadzhov, PhD, Technical University of Gabrovo of the materials submitted for participation in a competition for the academic position of "Associate Professor" in professional direction - 5.13. General Engineering, specialty - Quality management  
with candidate Assist. Prof. Eng. Tsvetelin Kirilov Georgiev, PhD

### **1. Information about the competition**

The competition for the academic position "Associate Professor" at TU-Gabrovo was announced in "State Gazette", no. 54 of 25.06.2024 and on the TU-Gabrovo website for the needs of the Department of Mechanical Engineering and Instrumentation, Faculty of Mechanical Engineering and Instrumentation.

### **2. Information about the candidate**

One candidate took part in the competition - Assistant Professor Tsvetelin Kirilov Georgiev, Ph.D., lecturer at the Department of Mechanical Engineering and Metal Cutting Machines at Angel Kanchev University of Ruse.

Eng. Tsvetelin Georgiev, PhD, obtained a master's degree in 2001 in the specialty "Mechanical engineering technologies and management" and a doctorate in the scientific specialty "Materials science and technology of engineering materials" with a defended dissertation on the topic "Quality assurance of cast iron with a spheroidal form of graphite".

He started his scientific and teaching activity in 2003 at Angel Kanchev University of Ruse and from 2009 to now holds the academic position of "Assistant Professor" at the same university.

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

Ts. Georgiev, PhD, participates in the competition with scientific materials that do not repeat the submitted publications for obtaining the educational and scientific degree "Doctor" and for occupying the academic position "Assistant Professor".

The scientific materials presented at the competition can be divided into the following groups: monograph, scientific publications - articles in magazines and conference reports, textbooks and teaching aids. The candidate meets the requirements of the "Law on the Development of the Academic Staff in the Republic of Bulgaria for occupying the academic position of "associate professor", since the materials received by Ts. Georgiev, PhD, fully cover the relevant minimum national requirements of the LDASRB, the regulations for its implementation and the regulations of TU-Gabrovo.

The monograph of Assistant Professor Ts. Georgiev examines the application of the PDCA (plan-do-check-act) cycle, which is widely recognized and used in modern quality management systems. The topic is of particular importance to organizations that strive for process improvement and the management efficiency.

The author demonstrates an original approach to the subject, exploring not only the theoretical aspects of the PDCA cycle, but also developing new models for its application. This highlights the relevance of the work to the academic community and practice.

The associate professor candidate has a significant number of scientific publications, including 17 scientific papers, which show diversity and high scientific contribution in the field of quality management and engineering sciences. He has publications both in Bulgaria and abroad, 6 of

them are indexed in prestigious databases such as Scopus and/or WoS, and 3 of the articles are with IF and/or SJR.

Georgiev, PhD, is also a co-author of university textbooks and teaching aids that contribute to the educational process in the field of renewable energy sources and technologies. This emphasizes his contribution to the training of new specialists.

#### **4. Reflection of the candidate's scientific publications in the scientific community**

From the reference provided by the candidate at the time of submitting the documents, it can be seen that the publications of Georgiev, PhD, have been noticed by the world scientific community, with the total number of citations being 37, from which it can be concluded that the scientific publications of Eng. Tsvetelin Georgiev, PhD, not only contribute to the development of engineering sciences, but also have a positive impact on practice and the academic environment. They confirm his authority in the scientific community and position him as a leading researcher in the field of quality management.

#### **5. General characteristics of the candidate's activity**

##### **5.1. Educational and pedagogical activity**

Assistant Professor Eng. Tsvetelin Kirilov Georgiev, PhD, has considerable experience in educational and pedagogical activity, focused on engineering sciences. Since 2003 he is part of the academic staff of the "Angel Kanchev" University of Rouse, where he mainly teaches disciplines related to quality management. Through his activity, Georgiev, PhD, contributes to the development of education in the field of quality management systems by preparing students and specialists with the necessary knowledge and skills for successful professional realization.

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

Georgiev, PhD, has a number of publications in international scientific journals, referenced in databases such as Scopus and Web of Science. These works cover topics such as social responsibility as a key indicator of the quality of educational processes and the standardization of management systems. He develops new methodologies and approaches, such as the use of SIPOC diagrams and digital models for process analysis, which are also applicable in industry.

Through its scientific and scientific-applied activity, chap. assistant Eng. Tsvetelin Kirilov Georgiev, PhD, contributes significantly to the development of quality management and engineering sciences, both nationally and internationally level.

#### **6. Contributions**

PhD Georgiev's contributions combine theoretical and practical applicability, which makes them significant for the scientific community. They expand the boundaries of quality management and contribute to the integration of new development technologies in this area. I believe that the contributions derived from the habilitation materials are scientific-applied and applied.

Also, his significant contribution is the developed methodology for internal audits through SIPOC diagrams, which improves the efficiency of processes and was successfully implemented at the University of Ruse. A mechanism for updating the intra-university system for evaluating the quality of education and academic staff is proposed.

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

For me, the personal contribution of the candidate, Ts. Georgiev, PhD, to the results obtained from the teaching-pedagogical, scientific and scientific-applied activities is indisputable and significant. The presence of a serious circle of co-authors is testimony to the scale and significance

of the researched problems and the ability to work in a team in important scientific fields. It must be categorically emphasized that the serious scientific results obtained are largely due to the personal efforts, organizational qualities and skills of Georgiev, PhD.

#### **8. Critical remarks and recommendations**

I have no critical notes and recommendations.

#### **9. Personal impressions**

I know Assistant Professor Tsvetelin Georgiev, PhD, for more than three years. He is a professional with a high scientific and teaching culture, distinguished by innovation, international recognition and dedication to science and education.

#### **10. Conclusion**

In view of the above, **I propose to the esteemed Scientific Jury to award Assist. Prof. Eng. Tsvetelin Kirilov Georgiev, PhD academic position "Associate Professor" in:**  
field of higher education - 5. Technical sciences,  
professional direction - 5.13. General Engineering,  
specialty - Quality management

13.11.2024

Signature:...../signature/.....

/Assoc. Prof. Tsanko Karadzhov/