

OPINION

on the competition for the academic position of "Associate Professor" in the professional field 5.3. Communication and Computer Engineering, (Computer Systems, Complexes and Networks) for the needs of the Department of "Electrical Power Engineering and Communications" at the Faculty of Physics and Technology of the Plovdiv University "Paisii Hilendarski"

announced in the State Gazette: issue 96 of 11.11. 2025

with candidate: assistant professor Stanislav Mitkov Asenov, PhD from Plovdiv University "Paisii Hilendarski".

Member of the scientific jury: Prof. Rumen Kostadinov Popov, PhD from the Department of EKIT at Plovdiv University "Paisii Hilendarski"

1. General presentation of the procedure and the candidate

I have been appointed by order No. PD-22-51 of 09.01.2026 of the Rector of Plovdiv University "Paisiy Hilendarski" as a member of the scientific jury for the competition cited above, with the sole candidate being Senior Assistant Professor Dr. Eng. Stanislav Mitkov Asenov.

The set of materials presented by the candidate in electronic and paper format is in accordance with Art. 65 of the Regulations for the Development of the Academic Staff of the University of Sofia and Art. 53 of the Regulations of the Association of Academic Staff of the Republic of Bulgaria.

I have known Senior Assistant Professor Dr. Stanislav Asenov as a colleague at the Faculty of Physics and Technology since 2017. As colleagues, as a result of working on joint research projects, we also have 5 joint publications.

2. General characteristics of the candidate's research and applied scientific activities

The scientific production of the senior assistant, Dr. Eng. Stanislav Mitkov Asenov is in the field of "Technical Sciences". The results of the candidate's research and applied scientific activities have been published in a total of 33 scientific papers (in 13 of the publications the candidate is the first author) and 1 Manual on Microprocessor Technology. Sixteen (16) of the submitted scientific papers are referenced and indexed in world-renowned databases (Scopus), 17 scientific publications are in non-refereed journals with scientific review or in edited collective volumes. Of the papers, 10 publications equivalent to a monographic work (indicator B4 – 186.67 points) and 10 publications (indicator D7 – 90 points) are included in the current procedure, all of which are referenced in the scientific databases Web of Science and/or Scopus. The citations for the competition are 10 in total (indicator D12 – 100 points), all of which are in scientific publications, referenced and indexed in world-renowned databases with scientific information. In addition to the minimum national requirements for the position of

"associate professor", the candidate has also submitted a list of 5 significant research projects and 4 stages of the National Program "Young Scientists and Postdoctoral Fellows". I believe that the materials submitted for the competition exceed the minimum national requirements for holding the academic position of associate professor and are at a high scientific, technical and professional level.

3. Assessment of the candidate's pedagogical training and activities

Chief Asst. Prof. Dr. Eng. Stanislav Asenov has over 9 years of work experience as a lecturer in the Department of Electrical Power Engineering and Communications of the Faculty of Physics and Technology of the Paisii Hilendarski University. He has lectured on the following subjects: "Internet of Things", "Automotive Sensors", "Computer Systems and Technologies", "Communication Protocols in the Car", "Operating Systems", "Computer Periphery", "Multimedia and Office Systems", "Internet of Things", "Automotive Sensors", "Computer Systems and Technologies", "Communication Protocols in the Car", "Automobile Computer Modules", "Battery Systems for Electric and Hybrid Cars", "Computer Architectures", "Diagnostics of Computer Systems", "Power Supply Devices in Telecommunications", etc., as well as a series of exercises in various disciplines. He is a co-author of a manual on "Microprocessor Technology" (electronic edition) and has so far participated in the development of 16 curricula. The documents presented show significant teaching activity, which speaks of the candidate's professional preparation for conducting an educational process.

4. Main scientific and applied scientific contributions

The candidate has defined 10 scientific, 10 scientific-applied and 10 applied contributions.

I believe that the contributions thus defined should be summarized by thematic areas, for example:

- development of energy-efficient IoT systems, their application in the communication infrastructure of Smart City;
- sensor systems in cars and monitoring systems;
- implementation of developments in modern engineering education.

Quantitatively, the number of contributions would be good to reduce significantly.

5. Significance of contributions to science and practice

The achieved contributions are significant for science and practice. The results have been published in refereed and indexed journals and international scientific conferences, thus becoming available to the scientific community. A large part of the publications have an impact factor, which I note as positive. The citations show that the candidate is known and the achieved results are useful for theory and practice. I have no doubts about the authorship of the candidate in the publications submitted for review.

6. Critical notes and recommendations

I have no significant comments of a scientific and scientific-technical nature regarding the works submitted for evaluation, except for those of an editorial type, concerning the summary of the contributions. It is obvious that the candidate has covered several important scientific areas.

My recommendation to the candidate is that the results achieved from the scientific works be further implemented in teaching activities in the form of new teaching aids.

CONCLUSION

The scientific papers presented in the competition contain significant results, for which I give a positive assessment. Sufficient scientific, scientific-applied and applied contributions have been received. The minimum requirements have been achieved, the scientific-metric indicators have been met and based on this, I find it reasonable to **propose** that the senior assistant, Dr. Eng. Stanislav Mitkov Asenov, **take up the academic position of "ASSOCIATE PROFESSOR"** in the professional field 5.3. Communication and computer technology, scientific specialty: "Computer systems, complexes and networks", at the Department of "Electric Power Engineering and Communications" of the Faculty of Physics and Technology at the Plovdiv University "Paisiy Hilendarski".

Date: 02.03.2026

JURY MEMBER:

Prof. Dr. Rumen Popov, PhD