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R E V I E W

from Prof. Eng. Krasimir G. Kalev, PhD, National Military University "Vasil Levski",
Faculty „Artillery, AD and CIS, area of higher education 5. Technical Sciences,
professional field 5.13. General engineering

on competition for the academic position of "**professor**" in scientific area

5. *Technical sciences*, professional field 5.13. *General engineering*, scientific specialty
"Production organization and management" (Logistics, innovation and quality management) in
University of Telecommunications and Post - Sofia, promulgated in the "State Gazette", no.
56/19.07.2022 with candidate: Associate Professor Eng. **Plamen Tsvetanov Pavlov**, PhD

Information on the competition

One candidate participated in the competition for the academic position of "professor", Eng.
Plamen Tsvetanov Pavlov, PhD, associate professor in the Department of General Engineering of
the Faculty of Telecommunications and Management of the University of Telecommunications
and Post - Sofia.

The review was written in implementation of a decision taken at a meeting with protocol
No. 1/07.11.2022 of a scientific jury, approved by order No.3-155/13.09.2022 of the Rector of the
Higher School of Telecommunications and Posts, in accordance with Art. 113 (1) of the
Regulations on the Development of the Academic Staff in University of Telecommunications and
Post.

Information about the candidate in the competition

Assoc. prof. Eng. Plamen Pavlov, PhD graduated with excellence from technical school for
secondary education "S. Velchev", town of Omurtag. From 1980 to 1986, the candidate
graduated, with with excellence, from the Baltic State Technical University, St.-Petersburg,
Russian Federation, the full 5.5 year course for a Master of Engineering in the specialty "Radio
Mechanical Instrumentation". From 1986 to the end of 1987, he worked as the head of the
Production Department in machine-building plant "B. Manov". From 1988 to 1993, he worked as

an engineer-designer of radar equipment at the State Company "Electron", Varna. In 1995, he completed a postgraduate qualification (Banking) at the Varna University of Economics. Since 2001, he has been working as an expert in Accreditation and Quality at VFU "Chernorizets Hrabar".

In 2010, he successfully qualified for the academic position of "docent" at VFU "Chernorizets Hrabar" in the professional field of Economics, in the scientific specialty Innovations and Quality Management. From 2005 to 2013, he worked as a lead auditor for TÜV NORD Bulgaria and completed IRCA auditor courses according to ISO 9001:2000, OHSAS and ISO 27001:2005 standards. From 2012 to 2015, he worked as a member of the Standing Committee on Economic Sciences and Management of the National Assessment and Accreditation Agency. Since 2019, he has held the academic position of "docent" at University of Telecommunications and Post and was elected dean of the Faculty of Telecommunications and Management.

The candidate in the competition fulfills the minimum national requirements for the scientific and teaching activity for occupying the academic position of "professor" in the scientific area of Technical Sciences and the professional field of General Engineering according to the Development of Academic Staff in the Republic of Bulgaria Act (DASRB), Regulations on the Implementation of the development of academic staff in the Republic of Bulgaria (RIDASRB) and the additional requirements of Regulations on the Development of the Academic Staff in University of Telecommunications and Post (RDASUTP). Out of the required 600 points, the candidate has presented scientific and academic results corresponding to 892 points. The performance by groups of indicators is as follows:

A group of indicators	Content	Minimum required points by groups of indicators	Points by groups of indicators of Assoc. Prof. Eng. P. Pavlov, PhD
A	Indicator 1	50	50
B	Indicator 2	-	-
B	Indicators 3 or 4	100	100
Г	Sum of indicators 5 to 11	200	278
Д	Sum of indicators from 12 to 15	100	184
Е	Sum of indicators from 16 to 28	150	280
Общо		600	892

Assoc. Prof. Eng. Plamen Pavlov, PhD meets the minimum national requirements for the scientific

area of Technical Sciences defined in the Appendix to Art. 1a, para. 1 of the RIDASRB for occupying the academic position "professor" based on the indicators under Art. 2b, para. 2 of DASRB.

3.2. Fulfillment of the qualitative requirements for occupying the academic position

The candidate in the competition for the academic position "professor" Assoc. Prof. Eng. Plamen Pavlov, PhD submitted a List of all publications (No. 8 of the documents attached to the application for participation in the competition), which includes a total of 46 titles testifying to his publication activity and a Reference for the scientific publications for participation in the competition (No. 7 of the attached documents to the application for participation in the competition) containing 19 publications, which are part of the evidence for the fulfillment of the minimum national requirements under Art. 2b, from DASRB in the scientific field of Technical Sciences, including: monograph - 1 item, consisting of 188 pages; published book based on a protected dissertation work for the award of the PhD - 1 pc.; published chapter of a collective monograph - 2 items, consisting of a total of 37 pages; scientific publication in non-refereed journals with scientific review or in edited collective volumes - 12 nos., of which 11 nos. have one author - the candidate in the competition.

According to indicator group "D" of the minimum national requirements for a "professor" in the area of higher education Technical Sciences, 58 citations of 22 works were established. Of these, citations in scientific publications, referenced and indexed in world-famous databases with scientific information or in monographs and collective volumes - 1 item, citations in monographs and collective volumes with scientific review - 57 items.

In addition to the publication activity, the candidate in the competition has also indicated his participation in national and international scientific and educational projects, with which he fulfills the requirements of indicators 18 and 19 from the table. 2 of the Appendix to Art. 1a, para. 1 of RIDASRB as follows: national projects – 4 nos. and international - 6 pcs.

The scientific research activity of Assoc. Prof. Eng. Plamen Pavlov, PhD can be judged by the works developed by him. Dissertation for obtaining the educational and scientific degree "Doctor". A monograph in which current issues of information security concerning the organization are examined through the prism of international standards for information security management. The highlight of the monograph is the proposed methodology based on the ISO 27001 standard aimed at creating a system for managing the confidentiality, integrity and availability of the organization's information. The candidate has further developed his ideas and materialized them in a work based on his defended thesis, following the strategic goals at the national level for "smart industry" and increasing the competitiveness of small and medium-sized companies by developing innovative business models. A significant part of the candidate's research work is the results achieved by him and presented at scientific forums and in peer-

reviewed journals included in the national reference list. And last but not least in terms of importance are the participations in the development of scientific research projects at the university, national and international level.

The presented materials on the research activity of the candidate in the competition for "professor" can be classified into several thematic areas of the professional direction:

1) Logistics - publications no: 11, 12, 15, 16, and 17 of Reference for scientific publications

Logistics or the provision of all processes in production and consumption is an essential element of the system of socioeconomic development. In this sense, the rational solution of problems related to transport logistics and the management of supply chains is extremely important. In recent years, intermodal transport has become widely accepted. The proposed interpretation of the terminology in multimodal transportation brings clarity and correctness when using the individual terminological categories in the management of logistics processes.

2) innovations - Publications No: 3, 4, 7, 8, 9 and 13 of Reference for scientific publications

Modern industrial society represents a constantly changing environment of catching up with achievements in science and technology and is characterized by the continuous emergence of innovations. The innovation is the practical solution of new ideas through which a higher quality product or service is achieved. The candidate in the competition skillfully applies the idea of the innovative approach in the field of innovation management, education and innovation development of small and medium-sized enterprises.

3) Quality Management - Publications No: 6, 10 and 14 of Reference for Scientific Publications

Quality is a basic category in human activity that has different dimensions. The affected quality issues in the tender materials are essential for building quality management systems based on the process approach. The international standards regulating the basic requirements for management and quality control systems have been analyzed.

4) Information systems - publications no: 1, 2, 5, and 19 of Reference for scientific publications

Information systems are increasingly used in almost all spheres of human activity. Some of the problems of information systems are affected in the provided materials. The information security management system, the features of business information systems and digitization in two separate spheres - industrial production and public administration work - have been thoroughly examined.

I do not accept publication No. 18 from Reference for Scientific Publications for review, as I consider that it has no relation to the announced competition.

The researched problems in the submitted papers correspond to the professional direction in which the competition was announced and the accumulated potential in solving them will provide a better educational environment for the students' training.

The peer-reviewed works provide a complete picture of the candidate's research activity in the field of professional direction.

In accordance with Art. 2b, para. 2, item 2 of the RIDASRB, the candidate in the competition also presented evidentiary material for active teaching activity consisting in the development and publication of educational and methodological works, such as: university textbooks - 2 items, consisting of a total of 687 pages and a textbook, which is used in the school network - 1 piece, consisting of 266 pages; new lecture courses on academic disciplines of curricula of specialties of educational-qualification degree "professional bachelor", "bachelor" and "master" of the University of Telecommunications and Post - 33 units.

The works proposed by Associate Professor Eng. Plamen Pavlov, PhD are a reflection of his scientific and academic results in his teaching activity, which are relevant to the scientific field and professional direction of the competition announced by University of Telecommunications and Post and according to the measurable indicators from the table. 2 of the Appendix to Art. 1a, para. 1 of Regulations on the Implementation of the development of academic staff in the Republic of Bulgaria.

In his activity as a teacher, Assoc. Ph.D. Eng. Plamen Pavlov develops a number of lecture courses on three master's programs, on specialties in the educational-qualification degree "professional bachelor" and "bachelor" of University of Telecommunications and Post. From the inquiries made about the auditorium occupancy (No. 17÷20 of the attached documents to the application for participation in the competition) a high level of activity in the learning process is found, expressed in teaching in disciplines in a wide range of the professional field of the announced competition. Additionally, for the reporting period from the occupation of an academic position at University of Telecommunications and Post to the present moment, participation in State examination commissions for state examinations and thesis defense has been registered.

In addition to the immediate work as a lecturer, the candidate in the competition develops and updates subjects by academic discipline (No. 21 of the attached documents to the application for participation in the competition) for the specialties in the professional field of the competition, as well as for academic disciplines from the professional field of the competition for training in professional fields of Administration and Management and Communication and Computer Technology.

The achieved results in the teaching activity prove that Assoc. Prof. Eng. Plamen Pavlov, PhD is actively working to increase the quality of education of students in the area of professional field of General Engineering.

I accept the reference made by the candidate in the competition for the contributions he has achieved, placing them in the following groups:

- terminological definitions in the field of logistics (publications no: 12, 15, 16 and 17 of Scientific Publications Reference);
- innovation and innovation management (publications no: 3, 4, 7, 8, 9 and 13 of Scientific Publication Reference).
- analysis of terminology in the field of information security (publications No. 1 from Scientific Publications Reference);
- quality management systems - education system and public administration (publications no: 6, 10 and 14 of Reference for scientific publications)
- terminological analysis of terms and definitions in industrial automation - (publication no: 2 of Reference for scientific publications);
- classifying innovations in education (publication no: 3 of Reference for scientific publications);
- classification and assessment of business information systems (publication no: 5 of Reference for scientific publications);
- the advantages of digitization of industrial automation processes have been confirmed (publication no: 5 of Scientific Publications Reference);
- the connection between innovative development and the competitiveness of small and medium-sized enterprises was confirmed. (publication no: 7 of Reference for Scientific Publications);
- the need to apply the process approach to quality management in higher education has been confirmed (publication no: 14 of Scientific Publications Reference);
- the advantages of implementing an information security management system in company organizations have been confirmed (publication no: 1 of Scientific Publications Reference);
- it was carried out through an experimental verification Methodology for research and determination of the innovation potential of companies - (publication no.: 7 of Reference for scientific publications);

- tools for development of documentation, implementation and certification of an information security system have been developed - (publication no.: 1 of Reference for scientific publications);

- a methodology for research and determination of the innovation potential of small and medium-sized enterprises is proposed - (publication no: 7 of Scientific Publications Reference);

- methods for solving problems in the realization of multimodal transports are proposed - (publication no.: 12 of Reference for scientific publications);

- a methodology was proposed for the development of process cards for quality control in higher education - (publication no.: 12 of Reference for scientific publications);

- proposed methodology for managing business processes in public administration - (publication no: 19 of Scientific Publications Reference);

The materials provided by Assoc. Prof. Eng. Plamen Pavlov, PhD for the competition prove that he has lasting scientific interests in the field of Production Organization and Management.

The achieved scientific, scientific-applied and applied contributions are a consequence of the active research activity of the candidate for the academic position of "professor". By their nature, the analyzes made, comparative classifications and the developed methodologies are useful for the theory and practice of the specialty from the professional direction of the announced competition and together with the accumulated experience in teaching contribute to increasing the quality of education of the students in the specialties of University of Telecommunications and Post.

Based on the presented materials on the competition, I believe that Assoc. Prof. Eng. Plamen Pavlov, PhD has fulfilled the quantitative and qualitative indicators of the criteria for occupying the academic position according to the Law of Development of Academic Staff in the Republic of Bulgaria, the Regulations on the Implementation of the development of academic staff in the Republic of Bulgaria and the Regulations on the development of academic staff in the University of Telecommunications and Post.

The provided results of the research and teaching activities show that the candidate in the competition meets the requirements of Development of Academic Staff in the Republic of Bulgaria Act, Regulations on the Implementation of the development of academic staff in the Republic of Bulgaria and the Regulations on the Development of the Academic Staff in University of Telecommunications and Post. This gives me the reason to express a **positive conclusion** and recommend to the respected Scientific Jury to elect Associate Professor Eng. **Plamen Tsvetanov Pavlov**, PhD to occupy the academic position of "**professor**" in the area of higher education 5.

Technical sciences, professional field 5.13. General Engineering in the General Engineering
Department of the Faculty of Telecommunications and Management of the University -
Telecommunications and Post - Sofia.

16.11.2022

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