

REVIEW

by Assoc. Prof. Dr. Eng. Pencho Angelov Stoychev
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*(academic position, scientific degree, full name, higher education institution,
scientific organization)*

of the materials presented for participation in a competition
for the obtaining of the academic position “Professor” in
the field of higher education – 5. Technical sciences,
professional field – 5.13. General engineering (Engineering logistics)

The competition for the academic position “Professor” is announced in State Gazette issue 63 from 17 July 2020. In the announced competition for the needs of the Department “Engineering logistics” at the Faculty of Technical Sciences of “Konstantin Preslavsky” University of Shumen the only candidate is Assoc. Prof. Dr. Sc. Eng. Plamen Borisov Dyankov.

The review was prepared on the basis of Order № RD-16-105 / 09.10.2020 of the Rector of “Konstantin Preslavsky” University of Shumen and Minutes №1 / 26.10.2020 of the Scientific Jury for the competition.

1. Brief biographical data

Assoc. Prof. Dr. Sc. Eng. Plamen Borisov was born on January 2, 1971. He graduated from “Vasil Yovchev” Secondary Vocational Technical School of Mechanical Engineering in Shumen which he attended in the period of 1986-1989.

He obtained a Master's Degree in Engineering Logistics from “Konstantin Preslavsky” University of Shumen in 2011.

In 2014 he defended a dissertation for the acquisition of educational and scientific degree “Doctor” in professional field 3.5. Public communications and information sciences. In 2016 he obtained a second Doctoral Degree in professional field 5.3. Communication and computer technology.

In 2017 the candidate earned the scientific degree “Doctor of Sciences” in “Organization and management of information processes” with a dissertation titled “Functional model for the optimization of transport systems in logistics” at the Institute for Research and Training of Doctoral Students at UniBIT.

From 2012 to 2016 he held the position “Assistant Professor” at the Department “Engineering logistics” of “Konstantin Preslavsky” University of Shumen. In 2016 he became “Chief Assistant Professor” in the same department and in 2018 he was elected “Associate Professor” after a competition

Thanks to his high efficiency and constant striving to improve his scientific qualification, Assoc. Prof. Plamen Dyankov has established himself in a relatively short time as a prominent researcher and lecturer in the field of engineering logistics.

2. General description of the submitted materials

To participate in the competition, the candidate has submitted a list of the titles of 17 scientific publications in non-peer reviewed journals with scientific editing or in edited collective volumes (8.1-8.18), 3 academic textbooks (23.1; 23.2; 23.3) and 3 academic teaching aids (24.1; 24.2; 24.3).), reference for citations, taught disciplines and a list of participants in 11 research projects, of which 1 international, 3 national (18.1; 18.2; 18.3) and 7 university projects.

The presented publications fully cover professional field 5.13. General engineering (Engineering logistics).

From the 17 reviewed scientific works in 7 the candidate is an independent author, 10 are co-authored with another author, in 9 of which the candidate is the lead author and only in 2 a second author. All of the scientific publications are written in English.

Seventeen of the publications appear in international journals and one of them is an academic paper presented at an international conference abroad (8.9).

The correspondence of the points in the groups of indicators with the minimum requirements for holding the academic position "Professor" in higher education field 5. Technical sciences, laid down in Art. 2b of ADASRB (Act for the Development of the Academic Staff in the Republic of Bulgaria) is presented in the following table:

Group of indicators	Indicators group	Number of points fulfilling the minimum requirements for the obtaining of the academic position "Professor"	Candidate's number of points
A	Indicator A1	50	100
B	Indicator B3	100	100
Г	Sum of indicators from 5 to 11	200	236,7
Д	Sum of indicators from 12 to 15	100	115
E	Sum of indicators from 16 to 28	150	183,33

TOTAL 735,03

The summary of this information is as follows:

Group of indicators A (at least 50 points) - Dissertation for the awarding of the educational and scientific degree "Doctor" - **2 dissertations of 50 points each.**

Group of indicators B (at least 100 points) - published monographic work or equivalent scientific publications (not less than 10) in editions that are peer reviewed and indexed in world-famous databases with scientific information - 1 published monograph - **100 points.**

Group of indicators Г (at least 200 points) - scientific publications in non-peer reviewed editions with scientific editing or in edited collective volumes - 17 publications with different number of authors - **236.7 points.**

Group of indicators Д (at least 100 points) - citations in scientific journals, peer reviewed and indexed in world-famous databases - **42 citations** - a total of **115 points.**

Group of indicators E (at least 150 points)- acquired scientific degree "Doctor of Sciences" (40 points); participation in a national scientific or educational project (3 x 10 points = 30 points); published university textbook or textbook used in the school network (23.1; 23.2; 23.3) = 73.33 points; published university teaching aid or teaching aid used in the school network (24.1; 24.2; 24.3) = 40 points. Total **183.33 points.**

My conclusion is that with the presented monograph, scientific publications and citations, the candidate Assoc. Prof. Plamen Borisov Dyankov fully meets the minimum national requirements for holding the academic position of "Professor" for the field of "Technical Sciences" in higher education, laid down in Art. 2b of ADASRB.

3. Impact of the candidate's scientific publications on the scientific community

To participate in the competition, the candidate has submitted a list of 14 citations in monographs and collective volumes with scientific editing (13.1 - 13.14); 28 citations in non-peer reviewed journals with scientific editing (14-1 - 14.28), 4 scientific works published abroad.

As a result of his publishing activity and its respective impact represented by the citations of his works by other authors, it can be concluded that the candidate is known to the scientific community.

4. General characteristics of the candidate's activity

Teaching and pedagogical activity

The candidate for the academic position "Professor" Assoc. Prof. Plamen Borisov Dyankov has 8 years of teaching activity in the specialty of "Engineering logistics" at the Faculty of Technical Sciences of the "Konstantin Preslavsky" University of Shumen. He has conducted classes in 12 disciplines of full-time and part-time students. He conducts the respective laboratory exercises and seminars, two production workshops and one course project on "Production Technologies".

The candidate has participated in the preparation of curricula in the following disciplines:

- „Materials science“;
- "Transport systems in logistics";
- „Logistic complexes“
- „Production technologies“.

He has also prepared a Methodology for conducting classes and evaluating students in the disciplines "Production Practice - Part I" and "Production Practice - Part II". For the competition he participates with 3 textbooks (23.1; 23.2; 23.3) and 3 teaching aids (24.1; 24.2; 24.3), all of which were peer-reviewed.

Activity with students, including PhD students

Assoc. Prof. Dr. Sc. Eng. Plamen Borisov Dyankov is the academic supervisor of two PhD students in professional field 5.13. General engineering.

- Thesis supervisor – 9 students;
- Reviewer of diploma theses – 8 students;
- Joint publications with students – 10 publications.

Scientific and applied scientific activity

The applied scientific activity of the candidate is related with his participation in three National projects (18.1; 18.2; 18.3):

- № BG051PO001-4.3.04-0020 „Modernization of the Center for Distance Learning at "Konstantin Preslavsky" University of Shumen by the implementation of modern electronic forms of education" 2012-2014;
- №BG05M2OP001-2.002-0001 „Student practice“ – Phase I 2018;
- № BG051PO001-3.3.07-0002 „Student practice" 2013.

He speaks English, which allows him to maintain useful contacts and exchange information with colleagues from abroad working in his field.

5. Contributions

I accept the contributions formulated by the author regarding the publications with which he participates in the competition for the academic position "Professor". Fundamentally, they have a applied scientific nature and can be summarized in the following three areas:

1. Organization and management of supply chains

In seven of his publications the candidate presents tools for analysis of the processes in the management of the supply chain, the vertical integration of different logistic structures for achieving compatibility and synchronization between them is substantiated and it is deduced that modern production systems are important for the development of society and economy. Assoc Prof. Dyankov provides further evidence that logistic complexes meet the trends for integrated logistic structures in supply chains, as well as the synergy, which is a factor in the management of cybernetic systems

The publications with scientific contribution in the specified field are numbered as follows: 8.3; 8.4; 8.7; 8.8; 8.15; 8.16 and 8.17.

2. Standardized approaches for building and developing of information flows in logistics

In 5 other publications, Assoc. Prof. Plamen Dyankov states that the immediate benefits for logistics from the implementation of cloud technologies is the elimination of investment in IT structure of one's own, gaining access to many new services managing logistics processes in the system, integration of different partners, joint work through online social networks.

Assoc. Prof. Plamen Dyankov substantiates the dominant role of the systems for global radionavigation positioning in the railway transport system. The stages in terms of building integrated production systems are systematized. He confirms that via the use of information systems rational management of the production cycle is achieved, and that the use of the global Internet network provides new opportunities for information flow management.

The publications with scientific contribution in the specified field are numbered as follows: 8.1; 8.9; 8.11; 8.12 and 8.13.

3. Possible directions for the development of management processes in transport

In the third group of publications the candidate presents intermodal transport as a highly efficient technology, ensuring optimal use of the advantages of the types of conventional transport with a proven economic and environmental effect. Assoc. Prof. Dyankov substantiates the importance of engineering logistics for reducing costs, using the value concept of business enterprises. It is on this basis that it is possible to build a fully integrated business management system based on a clear hierarchical structure using basic approaches.

Assoc. Prof. Dyankov substantiates the priority for development of the Trans-European network through the territory of Bulgaria, as well as the need for development of the providers of 3PL and 4PL services, in relation to the conditions of the global market. The candidate offers a solution to transport problems based on a modified simplex method for linear optimization.

Different technologies for road traffic management are presented via the making of flexible decisions in assessing the effectiveness of different transport projects. Logistic systems with a high level of service and different options for their management are presented.

The publications with scientific contribution in the specified field are numbered as follows: 8.2; 8.5; 8.6; 8.8; 8.10 and 8.14.

6. Evaluation of the personal contribution of the candidate

Assoc. Prof. Dr. Sc. Plamen Borisov Dyankov has been working in the scientific area presented in his works for participation in the competition ever since entering the Department "Engineering logistics" in 2012.

I am familiar with his developments, because we have been cooperating with lecturers from the Department "Engineering logistics" for a long time, and considering his good theoretical

training and engineering skills, I believe that the presented materials are his personal developments or with his leading participation.

7. Critical remarks and recommendations

On the basis of the analysis of the papers submitted to me for review, I make the following remarks and recommendations for the future work of Assoc. Prof. Dr. Sc. Plamen Borisov Dyankov:


- To strengthen his work with PhD students and young scientists in order to create a team with the capacity to obtain more meaningful results;
- To seek cooperation with lecturers from related universities and research organizations in the country and abroad;
- To participate in projects under the specialized research programs of the European Union, as well as in other international and regional specialized programs.

The critical remarks made do not in any way diminish the candidate's contributions. I recommend Assoc. Prof. Dr. Sc. Plamen Borisov Dyankov to continue his scientific and publishing activity in the directions defined by him, as well as to look for opportunities for application of his results.

8. Conclusion:

Based on my extensive acquaintance with the presented scientific works by the candidate Assoc. Prof. Dr. Sc. Plamen Borisov Dyankov, the contributions contained in them, as well as on the basis of all other presented achievements in educational activities and the comparison with the requirements laid down in ADASRB, I believe that he is an established scientist and researcher in the field of engineering logistics, I give a positive assessment of the candidate and **offer Assoc. Prof. Dr. Sc. Plamen Borisov Dyankov to be elected for the academic position "Professor" at Department "Engineering logistics, Faculty of Technical Sciences of "Konstantin Preslavsky" University of Shumen in the field of higher education: 5. Technical sciences, professional field 5.13. General engineering /Engineering logistics/.**

03 November 2020

Reviewer: 
/Assoc. Prof. Dr. Eng. Pencho Angelov Stoychev/