



NIKOLA VAPTSAROV NAVAL ACADEMY

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"FILII MARIS SUMUS"

REVIEW

**by Prof. Dr. Eng. Yuriy Ivanov Dachev,
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**of a competition for the academic position „Professor“ in Higher education scientific field:
5. Technical sciences, Professional field 5.13. General engineering (Engineering logistics) at
the Department of “Engineering logistics”, Faculty of Technical Sciences at Konstantin
Preslavsky University of Shumen, announced in State Gazette, issue 63 / 17.07.2020**

Candidate: Assoc. Prof. Dr. Sc. Eng. Plamen Borisov Dyankov

Grounds: Order № RD-16-105/09.10.2020 by the Rector of Konstantin Preslavsky University of Shumen

1. Biographical data.

Assoc. Prof. Dr. Sc. Eng. Plamen Borisov Dyankov obtained Master's Degree in Engineering logistics at Konstantin Preslavsky University of Shumen in 2011. In 2014 he defended a PhD thesis for the acquiring of educational scientific degree “Doctor” in professional field 3.5. Social communication and information sciences. In 2016 he obtained a second PhD degree in professional field 5.3. Communication and computer technology.

In 2017 the candidate defended his scientific degree "Doctor of Sciences" in "Organization and management of information processes" at the Institute for Research and Training of Doctoral Students at University of Library Studies and Information Technologies.

From 2012 to 2016 he held the position of “Assistant Professor” at the Department of “Engineering logistics” at Konstantin Preslavsky University of Shumen. In 2016 he became “Chief Assistant Professor” at the same Department and in 2018 he was selected for the position of “Associate Professor”. It can be seen that the candidate has an enviable desire to improve his scientific qualification, while gaining serious professional experience in the field of education.

2. Pedagogical preparation by and pedagogical activity of the candidate.

2.1. Classroom and extracurricular activities - development of lecture courses, innovations in teaching methodology, providing classes in a practical environment outside the University or scientific organization

From the submitted reference under Art. 61 of RIADASRB (Regulations for the Implementation of the Act for the Development of the Academic Staff in the Republic of Bulgaria) for additional indicators for participation in the competition, it can be seen that the candidate conducts lectures and seminars in 14 subjects.

Assoc. Prof. Plamen Dyankov has developed curricula in "Materials Science", "Transport Systems in Logistics", "Logistic Complexes", "Production Technologies", as well as methodology for conducting and evaluating students in the disciplines: "Production Practice - Part I" and "Production Practice - Part II". The classes in the last two disciplines are held in a practical environment on the territories of production companies and logistic structures. Another aspect of providing activities for students in a real production environment is their participation in Project of the Ministry of Education and Science "Student Internships", in which the candidate participates as an academic mentor.

2.2. Activities with University students, including PhD students

Assoc. Prof. Plamen Dyankov was the academic supervisor of 9 graduates, a reviewer of 8 diploma theses, which were successfully defended before the State Examination Commission. He is currently the research supervisor of two doctoral students in the doctoral program "Engineering Logistics" in the field of higher education: 5. Technical sciences, Professional field 5.13. General engineering.

A very good attestation for the candidate's work with students is the fact that he presents 10 joint publications with students.

3. General characteristics of the research and scientific-applied activity of the candidate

3.1 Textbooks and teaching aids

Under the announced competition for the academic position of "Professor" the candidate has presented three textbooks, two of which are co-authored, and three textbooks, two of which are co-authored. They are designed to train students in the specialty "Engineering Logistics", as well as other specialties at the Faculty of Technical Sciences at Shumen University..

3.2 Publications

In my opinion his monograph "Process management by choosing an alternative to influence the elements of supply chains" meets the acknowledged scientometric requirements for the academic position of "Professor". It represents research methodology where in the interdisciplinary character of the study is taken into account and thus determining the use of a diverse set of methods and tools for analysis and observation.

In his monographic work the candidate skillfully correlates the theoretical theses with proven experience in scientific and applied elaborations for the realization of modern logistic technologies for transportation, thus providing a relevant character of the research.

Under the announced competition for the academic position of "Professor" the candidate participates with 18 journal articles and papers presented at academic conferences, of which 10 are co-authored. The subject area of the publications fully covers the professional field 5.13 General Engineering (Engineering Logistics).

3.3 Citations

The presented reference contains 43 citations of the candidate's works, as well as a review of a monographic work by Stefan Kazakov, PhD.

3.4 Participation in projects

According to the submitted documents, the candidate participates in 11 research projects, of which 1 international, 3 national and 7 university projects.

3.5 Scientific contributions to the competition

Assoc. Prof. Plamen Dyankov, according to the author's reference, has defined his contributions in three directions:

1. Organization and management of supply chains.

In the 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. Plamen 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.

1.1. Publications with scientific contributions to the specified field:

❖ Plamen Dyankov, **Integrated and quantitative limits for monitoring in logistics**, International scientific refereed online journal with impact factor Ltd., Bulgaria, Issue 41, January 2018, ISSN 2367-5721, p. 342-358;

❖ Svetlozar Stoyanov, Plamen Dyankov, **Marketing brief historical overview of the definition**, International scientific refereed online journal with impact factor Ltd., Bulgaria, Issue 41, January 2018, ISSN 2367-5721, p. 389-393;

❖ Plamen Dyankov, **Management of complex dynamic systems**, International scientific refereed online journal with impact factor Ltd., Bulgaria, Issue 41, January 2018, ISSN 2367-5721, p. 359-364;

❖ Plamen Dyankov, **Trends in the development of the metal working industry**, International scientific refereed online journal with impact factor, Issue 69, May 2020, ISSN 2367-5721, p. 37-40;

❖ Plamen Dyankov, Nurdzhan Mustafafova, **Freight villages as a logistics complex**, International scientific refereed online journal with impact factor, Issue 70, June 2020, ISSN 2367-5721, p.127-138;

❖ Plamen Dyankov, Svetlozar Stoyanov, **Notes on the nature and structure of the organization management information system**, International scientific refereed online journal with impact factor, Issue 70, June 2020, ISSN 2367-5721, p.139-144.

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

In the publications the candidate states that the immediate benefits for logistics from the implementation of cloud technologies is the elimination of investment in an IT structure of one's own, gaining access to many new services managing logistic processes in the system, integration of different partners, collaboration 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 gives further proof that via the use of information systems rational management of the production cycle is achieved, and that via the use of the global Internet network new opportunities for information flow management are created.

2.1 Publications with scientific contribution to the specified field:

❖ Plamen Dyankov, Oktai Hussein, **Applications of tware technologies in the management of supply chain**, International scientific refereed online journal publisher: "Smart ideas – wise decisions" Ltd., Bulgaria, Issue 35, July 2017, ISSN 2367-5721, p. 138-143;

❖ Plamen Dyankov, Emil Zechev, **Integrating intelligent monitoring systems in rail transport**, International scientific refereed online journal with impact factor, Issue 59, July 2019, ISSN 2367-5721, p. 44-51;

❖ Plamen Dyankov, **Modern requirements for education in frame for the intelligent productions**, International scientific refereed online journal with impact factor Socio Brains, Issue 62, October 2019, ISSN 2367-5721, p. 45-49;

❖ Lubka Gospodinova, Plamen Dyankov, Mariela Velikova, **Intelligent manufacturing systems in engineering**, International scientific refereed online journal with impact factor Socio Brains, Issue 63, November 2019, ISSN 2367-5721, p. 1-9;

❖ Plamen Dyankov, **Administration of logistic structures**, International scientific refereed online journal with impact factor, Issue 67, March 2020, ISSN 2367-5721, p. 81-90.

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

In the 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. Plamen 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.

The priority for development of the Trans-European network through the territory of Bulgaria is substantiated, 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.

3.1. Publications with scientific contributions to the specified field:

❖ Пламен Дянков, „Управление на процесите чрез избор на алтернатива за въздействие върху елементите на вериги за доставки“, УИ „Епископ Константин Преславски“, ISBN 978-619-201-383-7, 2020;

❖ Plamen Dyankov, Petar Enev, **Risks and losses in the organization of transport production**, International scientific refereed online journal with impact factor, Issue 37, September 2017, ISSN 2367-5721, p. 51-60;

❖ Plamen Dyankov, Svetlozar Stoyanov, **Trends for the future development of the transport in Bulgaria**, International scientific refereed online journal with impact factor Ltd., Bulgaria, Issue 41, January 2018, ISSN 2367-5721, p. 368-378;

❖ Plamen Dyankov, **Economic impact of logistics in transport**, International scientific refereed online journal with impact factor Ltd., Bulgaria, Issue 41, January 2018, ISSN 2367-5721, p. 335-341;

❖ Plamen Dqnikov, Stefan Kazakov, **Synthesis of solitions in transport testing in MatLabs of tware environment**, 54th International scientific conference on information, communication and energy systems and technologies (ICEST 2019) Ohrid, North Macedonia, June 27-29, 2019, Issue 1, ISSN 2603-3267 /online/ p. 401-403;

❖ Plamen Dyankov, Plamen Petrov, **Intelligent systems in car transport**, International scientific refereed online journal with impact factor, SocioBrains, Issue 62, October 2019, ISSN 2367-5721, p. 36-44;

❖ Plamen Dyankov, **Transport as an element in international distribution**, International scientific refereed online journal with impact factor, Issue 68, April 2020, ISSN 2367-5721, p. 85-92.

According to the submitted Reference for Implementation of the Minimum National Requirements under Art. 2b, para. 2 and 3 of ADASRB (Act for the Development of the Academic Staff in the Republic of Bulgaria) for professional field 5.13. General Engineering, Assoc. Prof. Plamen Dyankov has acquired **758.03 points** with a required minimum of **600 points**. I accept all research papers proposed for review, as they correspond sufficiently to the content and subject area of the competition and reflect to the necessary extent the creative and pedagogical activity of Assoc. Prof. Plamen Dyankov.

4. Critical remarks and recommendations.

I recommend the candidate to focus his efforts on raising the level of his English language training. This will help him to participate effectively in the “Erasmus +” program in order to realize mobility in foreign universities, for which he has the required potential.

5. Conclusion.

In conclusion, I declare that with the presented scientific production and teaching activities the candidate for acquiring the academic position "Professor" - Assoc. Prof. Dr. Sc. Eng. Plamen Borisov Dyankov, satisfies the obligatory requirements of ADASRB, the requirements for holding academic positions at Konstantin Preslavsky University of Shumen, as well as the content of the scientometric evaluations.

I responsibly propose the candidate Assoc. Prof. Dr. Sc. Eng. Plamen Borisov Dyankov to obtain the academic position of "Professor" in the field of higher education: 5. Technical sciences, Professional field 5.13. General Engineering (Engineering Logistics) at the Faculty of Technical Sciences of Konstantin Preslavsky University of Shumen, as he has satisfied all the relevant requirements for this academic position.

04.11.2020

Reviewer:.....
(Prof. Dr. Eng. Yurij Dachev)

