

## **STATE**

**by Assoc. Prof. Radostin Vazov PhD**

**by the Higher School of Insurance and Finance (VUZF), appointed a member of the scientific jury by order of the Rector of the Higher School of Insurance and Finance № 82 of 08.04.2021**

**concerning**

**the scientific, scientific-applied and professional-academic activity and the production, presented by Maria Borovska in connection with the participation and in the procedure for obtaining the scientific degree "Doctor of Sciences" in the field of higher education 3. "Social, economic and legal sciences", professional field 3.8. "Economy"**

### **1. General presentation of the received materials**

By Order № 82 / 08.04.2021 of the Rector of the Higher School of Insurance and Finance (VUZF) Assoc. Prof. Dr. Grigoriy Vazov I have been appointed a member of the scientific jury for providing a procedure for defense of a dissertation on the topic “Increasing the financial and economic competitiveness of the logistics enterprises with the use of analytical models” for acquiring the scientific degree “ Doctor of Sciences ” in the field of higher education 3. Social, economic and legal sciences, Professional field 3.8. Economics. The dissertation consists of a total of 257 pages, of which 240 pages are the main text. The list of references contains over 200 titles. There are over 400 references in the work.

The submitted materials include:

- Curriculum vitae
- Dissertation for obtaining the scientific degree "Doctor of Economics"
- Abstract in Bulgarian and Russian

- Reference with fulfilled quantitative criteria for obtaining the scientific degree "Doctor of Economic Sciences"
- Reference to the candidate's publications
- Reference to the candidate's citations

The documentation submitted by the applicant is characterized by completeness and visual structuring.

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

Maria Borowska was born on September 28, 1952 in Stalewa Wola (Poland).

Dr. Maria Borowska is a lecturer in basic employment contract in Poland, at the State Vocational University Prof. Stanislaw Tarnowski in Tarnobrzeg at the Faculty of Technical and Economic Sciences.

- 1976 - received a master's degree in mathematics from the Marie Curie-Skladowska University in Lublin (Poland).
- 1976 - 1995 he worked as a teacher of mathematics in various higher and secondary educational institutions in Poland.
- 1995 - defended her doctoral dissertation in economics at the Faculty of Informatics and Management of the O. Langa University of Economics in Wroclaw (Poland). Dissertation topic: "Analysis of the functioning of the non-deterministic inventory management system".
- Since 1995 he has been working as a lecturer in economics at various universities in Poland.
- From 2015 until today - Lecturer in Basic Employment Contract at the State Vocational University Prof. Stanislaw Tarnowski in Tarnobrzeg (Poland)

## **3. Contributions (scientific, scientific-applied, applied)**

From the reference for the scientific-applied activity of Maria Borovska it is evident that her scientific publications are from the field of the announced competition.

The presented dissertation of Maria Borovska is dedicated to the problems of logistics companies. The dissertation proposes an innovative method for forecasting, supporting the process of service management in the direction of increasing the financial and economic competitiveness of logistics companies based on the laws of operation of a probabilistic logistics system, ie. , analytical models of these processes in the form of certain systems of equations.

A model approach and forecasting are used, which are the basis for the use of modeling in logistics. In her work, the author presents her own research results on the probabilistic description of the logistics system in question, which maintains a service center, and the quantitative characteristics of this system. Based on this description, a method for forecasting the characteristics (processes) of the considered logistics system has been developed.

The dissertation definitely has a number of merits that make it a useful read not only for students studying the problems of modern management science, but also for a very wide range of readers.

The following contributions have been identified in Maria Borovska's research.

- A new, original methodology for determining the forecasts that support the process of managing the services of a logistics system in order to increase the financial and economic competitiveness of logistics companies is presented.
- The regularities of the functioning of the studied logistics system are derived and presented in the form of the obtained analytical models - systems of differential equations, describing the processes taking place in the logistics system and its subsystems.
- The obtained and implemented model can be used to obtain quantitative characteristics of bottlenecks and to determine other quantitative indicators describing the operation and correctness of the developed test logistics system.
- The news of the obtained forecasts lies in the fact that they depend on the parameters of the studied logistics system and its subsystems.

I accept with confidence these contributions in the way they are defined, as I believe that they fully correspond to the qualities of the scientific works of Maria Borovska.

#### **4. Critical remarks and recommendations**

I have no significant critical remarks. I would recommend Maria Borovska to continue to strive to combine academic and practical activities and to develop her knowledge and experience in the form of in-depth research.

#### **CONCLUSION**

The documents and materials submitted by Maria Borovska meet all the requirements of the Law for the Development of the Academic Staff in the Republic of Bulgaria (LASRB) and the Regulations for its implementation. Undoubtedly, during the years of its development Maria Borovska has established herself as a serious scientist, teacher and professional. Acquiring the degree of "Doctor of Science" is a completely natural part of her growth.

The candidate in the procedure has submitted a sufficient number of scientific papers. The works are distinguished by indisputable original scientific and applied contributions.

After getting acquainted with the presented materials and scientific papers, analysis of their significance and contained in them scientific, scientific-applied and applied contributions, I find it reasonable to give my positive assessment and recommend to the Scientific Jury to prepare a report on the award of Maria Borovska scientific degree "Doctor of Science" 3. "Social, economic and legal sciences", professional field 3.8. "Economics" at VUZF

May 2021

Sofia city

Prepared the opinion:

(Assoc. Prof. Radostin Vazov PhD)