

REVIEW

**from Professor PhD Stanislav Dimitrov Petkov,
Professor at the Higher School of Insurance and Finance - Sofia, VUZF-Sofia**

of dissertation for awarding the scientific degree "**Doctor of science**"
in the Field of higher education 3. Social, economic and legal sciences,
Professional field 3.8. Economics,
doctoral program "Finance, Insurance and Social Security"
at the Higher School of Insurance and Finance (VUZF) – Sofia

Author: PhD Marek Magniszewski

Topic: " Economic aspects of air transport in Poland "

1. General description of the presented materials

By order No. 108 of 01.03.2023 of the Rector of the Higher School of Insurance and Finance Prof. Doctor of Law Boris Velchev, I have been appointed as a member of the scientific jury to ensure a procedure for the defense of a dissertation on the topic " Economic aspects of air transport in Poland " for the acquisition of a scientific degree "Doctor of Sciences" in the Field of Higher Education 3. Social, economic and legal sciences, Professional field 3.8. Economics, PhD program "Finance, Insurance and Social Security". The author of the dissertation is Dr. Marek Magniszewski.

By decision of the scientific jury dated 24.03.2023, I have been designated as a reviewer of the candidate's works within the framework of the present procedure.

The materials submitted by the candidate, Dr. Marek Magniszewski, include the following:

1. dissertation - in Russian;
2. abstract of the dissertation work in Bulgarian and in Russian;
3. reference on the fulfillment of the minimum national requirements for acquiring the scientific degree "Doctor of Sciences" in the professional field 3.8. "Economics";
4. statement of contributions - in Russian;
5. list and summaries of the publications - in Russian;
6. brief biographical data – in English;
7. copy of doctor's diploma - translated and notarized;
8. presentation related to the dissertation work.

2. Brief biographical data about the candidate

The candidate Dr. Marek Magniszewski holds a Master's degree in electrical engineering, specialty, processing and use of electricity from the Rzeszów University of Technology. Dr. Marek Magniszewski holds an educational and scientific degree "Doctor" in technical sciences in the discipline of machine construction and operation, Faculty of Mechanical Engineering and Aviation of the Rzeszów University of Technology. Topic of thesis: "Analysis of the torsional strength of machine elements additively manufactured from polymeric materials".

From the data presented, the candidate has significant experience in academic activity, teaching, scientific activity, as well as in areas outside of scientific circles.

3. Relevance of the topic and appropriateness of the set goals and tasks

In the presented dissertation, the author has correctly justified the topicality and importance of the topic. Nowadays, the issue of economic aspects of air transport is a particularly important issue.

The author aims to investigate the economic aspects of air transport activities in Poland. As he mentions there are 15 airports in Poland. In order to fulfill his stated goal, the author formulates as tasks to analyze the essence of air transport, to consider its functional scope, to carry out a multi-faceted analysis of oil prices, to carry out a multi-dimensional analysis of air transport in European countries and at airports in Europe and Poland .

4. Characterization and evaluation of the dissertation work

The dissertation has a volume of 203 pages. The work is structured into Contents, Introduction, Five Chapters, Conclusion, Bibliography, List of Figures, List of Tables and List of Diagrams.

The number of included figures is 87, 20 tables and 3 diagrams.

The bibliography list consists of 47 sources. Source pages on the Internet are indicated separately.

Some of the authors and sources are cited in the main statement of the study.

The number of sources used is relatively small for this type of scientific research.

The technical requirements for the preparation of a dissertation have been met by the candidate.

The introduction presents the author's idea and is an introduction to the problem. The relatively short amount of pages in the introduction is striking - less than two pages.

The first Chapter is entitled «Essence of air transport». The volume of the First Chapter is 42 pages. This part of the study is structured in three points. The development of aviation, basic

concepts related to air transport are reviewed and individual problems of air transport are formulated and analyzed.

The second chapter is entitled «Functional sphere of air transport». The volume of the Second Chapter is 46 pages. This part of the study is structured in three points. Air transport infrastructure, types of transport and carriers, airplanes as a means of air transport are examined.

The third chapter is entitled "Multidimensional analysis of oil prices". The volume of the Third Chapter is 48 pages. This part of the study is structured in two points. An analysis of the time series of oil prices was performed. Oil price modeling has been done.

The fourth chapter is entitled «Multidimensional analysis of air transport in European countries». The volume of the Fourth Chapter is 27 pages. This part of the study is structured in two points. A multidimensional analysis of passenger air transport in Europe was carried out. In the second point of the fourth chapter, the author carries out a multidimensional analysis of air freight transport in Europe.

Chapter Five is entitled «Analysis of airports in Poland». The volume of the Fifth Chapter is 15 pages. This part of the study is structured in three points. The author performs a multidimensional analysis of airports in Poland. In addition, the number of passengers and cargo at airports in Poland is analyzed.

Based on the dissertation thus presented, I can assume that the research represents a significant development of the chosen topic.

The dissertation thus presented gives me certain reasons to assume that the dissertation of candidate Dr. Marek Magniszewski contains scientific and scientific-applied results that represent an original contribution to science. The dissertation shows that the candidate has in-depth theoretical knowledge of the relevant scientific field and the ability to conduct independent scientific research.

5. Contributions and significance of the dissertation for science and practice

The candidate, Dr. Marek Magniszewski, has submitted a report on the contributions to science and practice of the dissertation work. The reference lists 4 contributions to science and 2 contributions to practice. I can accept as contributions a significant part of the contributions of the dissertation work formulated in this way.

6. Assessment of dissertation publications

Dr. Marek Magniszewski has presented a reference for 17 scientific publications. A positive certificate for the candidate's work is the fact that he publishes in English as well as in foreign forums and publications.

Another positive certificate is the fact that the candidate has multiple co-authored publications.

A part of the candidate's publications are within the framework of the issues investigated in the dissertation work.

A part of the publications are before the acquisition of the educational and scientific degree "doctor", but from the presented data it is not clear whether they were used in the procedure of acquiring the educational and scientific degree "doctor".

The publications fulfill and exceed the requirements for the award of the scientific degree "Doctor of Sciences", laid down in the Law on the Development of the Academic Staff in the Republic of Bulgaria (ZRASRB) and the Regulations for its implementation.

At the time of preparation of this review, there is no information that would give grounds for doubting the authenticity of the candidate's dissertation work and scientific publications.

7. Assessment of compliance with minimum national requirements

According to the presented materials, I can conclude that the candidate, Dr. Marek Magniszewski, fulfills the minimum national requirements for obtaining the scientific degree "Doctor of Sciences" in the professional field 3.8. Economy.

8. Personal involvement of the candidate

Based on the materials presented, it can be assessed that the contributions formulated and the results obtained are entirely the personal merit of the candidate. I believe that there is no plagiarism in the evaluated dissertation work.

9. Abstract

An abstract is attached to the dissertation work. The abstract is 28 pages long. The abstract contains a description of the main characteristics of the dissertation work, structure and content of the work, summary presentation of the dissertation, publications on the topic of the dissertation.

The abstract of the dissertation work has to some extent been prepared in accordance with the requirements accepted for this kind of scientific work.

The Abstract lacks a clear description of the dissertation work for obtaining the scientific degree "Doctor of Sciences" in the context of the content of the theoretical summaries and solutions to major scientific or scientific-applied problems, which correspond to modern achievements and represent a significant and original contribution in the science of analyzing the economic aspects of air transport.

10. Critical remarks and recommendations

Along with the merits of the work, I would formulate some notes and suggestions to the author.

The work would be improved if specific hypotheses were put to the test, which the research confirms or rejects.

Also, this kind of scientific research implies more financial and economic analysis of data, statistical information, comparison and comparison, conclusions, generalizations, models and original contributions in the researched issues.

Next, the analyzed issues could be studied to a greater extent through the prism of Poland's membership in the EU and in organizations such as the OECD.

11. Personal impressions

I do not personally know the candidate Dr. Marek Magniszewski. I have good indirect impressions of him as a doctoral student at VUZF and of the current procedure that went through the Department of Finance and Insurance.

CONCLUSION

The dissertation contains scientific, scientific-applied and applied results, which represent an original contribution to science and meet all the requirements of the Law on the Development of the Academic Staff in the Republic of Bulgaria (ZRASRB) and the Regulations for the Implementation of ZRASRB. The presented materials and dissertation results fully comply with the specific requirements of the Regulations for the admission and training of doctoral students at the Higher School of Insurance and Finance, as well as the Rules for the terms and conditions for obtaining the scientific degree "Doctor of Sciences" at the Higher School of Insurance and Finance.

The dissertation shows that the candidate, Dr. Marek Magniszewski, has in-depth theoretical knowledge and professional skills in Professional Field 3. 8. Economics, demonstrating qualities and skills for independent conduct of scientific research.

Due to the above, I give my positive assessment of the conducted research, presented by the above-reviewed dissertation work, abstract, achieved results and contributions, and I propose to the respected scientific jury to award the scientific degree "Doctor of Sciences" to Dr. Marek Magniszewski in the Higher Education Field 3. Social, economic and legal sciences; Professional field 3. 8. Economics; PhD program in Finance, Insurance and Social Security.

05.04.2023

Reviewer: (s)
(Prof. PhD Stanislav Dimitrov)