

EVALUATION REVIEW

by **assoc. prof. Dr. Shteryo Stefanov Nozharov,**

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of PhD thesis for awarding the scientific degree “Doctor of science” in higher education area 3. Social, economic and law sciences, professional field 3.8 Economics

Author: *Marek Magniszewski.*

Tema: *Economic aspects of air transport in Poland*

1. General characteristics of the materials presented.

In accordance with Order № 108/1.03.2023 of the Rector of VUZF – prof. Boris Velchev, DSc. I have been selected as a member of the Scientific Jury in a procedure for awarding scientific degree “Doctor of science” to a thesis, titled: “*Economic aspects of air transport in Poland*” in higher education field 3. Social, economic and law sciences, Professional field 3.8. Economics. Author of the thesis is: *Marek Magniszewski*

The materials, submitted by *Marek Magniszewski* include the following documents:

1. Thesis, titles „*Economic aspects of air transport in Poland*“ in Russian;
2. Abstract of thesis in Russian;
3. Abstract of thesis in Bulgarian;
4. A completed card for fulfillment of the minimum requirements for scientific degree “Doctor of Science” in Professional field 3.8. Economics.
5. List of contributions of the thesis.
6. List of publications and abstracts of the publications.
7. CV of the candidate.
8. A copy of a diploma for awarded education and scientific degree “Doctor”.
9. Presentation

The PhD candidate has attached: 11 studies (of which 9, published in scientific journals, refereed and indexed in world famous databases with scientific information and 2 – published in non-refereed peer-reviewed journals in edited collective volumes) zero monographs, 4 publications (articles and papers, published in scientific journals, refereed and indexed in world famous databases

with scientific information), 1 published book, based on a defended PhD thesis, 4 published chapters of collective monographs and list of citations.

2. Brief biographical reference of the candidate

The PhD candidate Marek Magniszewski obtained PhD in machine construction and operation at the Machine engineering and aviation Faculty of Rzeszów University of Technology in 2019. In 2012 Marek Magniszewski graduated postgraduate studies in "Acquisition and settlement of EU funds" at Faculty of Economics and Transport of Podkarpackie University in Jasło. For the period 2007-2008 the candidate completed Officer's Course for Warrant Officers Graduates of Civil Universities (362 hours) – aviation at Air Force Academy in Dęblin. In the period 2015-2021 Marek Magniszewski has been providing lectures as an assistant professor and chief assistant professor in various universities (Rzeszów University of Technology, University of Entrepreneurship and Administration in Lublin and WSB University Dębrowa Górnicza) in the following disciplines: Infrastructure of air transport; organization and operation of airports; deployment of unmanned systems in air transport; planning of flights safety; principles of aviation meteorology and navigation. The candidate has taken the occupation vice-dean of the Faculty of Management at Rzeszów University of Technology.

3. General characteristics and evaluation of the PhD candidate thesis

The PhD candidate thesis cover a total of 203 pages. It is structured in introduction, five chapters, conclusion, list of references and appendices. The thesis is constructed of theoretical and empirical part. In theoretical aspect, the author has studied the nature and specifics of air transport functioning and the empirical part covers multidimensional statistical analysis of the petroleum products prices as main source of energy for development of the air transport. It is made also a multidimensional statistical analysis of the passenger and freight carriages by comparing the air transport of Poland with air transport in the rest of EU member states for the period 2017-2021. A statistical analysis of the development of the air transport infrastructure in Poland, as well as the number of passengers served by Polish airports, has also been made. The results of the research are presented by 87 figures and 20 tables. Резултатите от изследването са обобщени в 87 фигури и 20 таблици. 48 literature sources and information from 33 internet sources are used.

4. Contributions and significance of the PhD candidate thesis for the development of science and practice

The purpose of the presented thesis is to be revealed the economic aspects of air transport in Poland through the application of multidimensional statistical analysis of petroleum products prices, which the author perceives as main source of energy for passenger and freight transport carriages

operation. He has also applied multidimensional comparative analysis for the development of air transport in Poland with the air transport of other EU member-states.

Based on the list of contributions of the presented thesis, the PhD candidate has derived four (4) theoretical and two (2) scientific-applied contributions. In our opinion, the contributions of the present thesis could be reduced to:

1. It is applied multidimensional statistical analysis of petroleum products prices as main source of energy for the air transport operation, based on which there have been made forecasts for the future prices of this type of energy and its impact on the economic development of air transport of Poland is evaluated.
2. Based on statistical methods and analysis (analysis of time series and correlations) there have been compared data about development of air transport of Poland with that of the rest of EU member-states as a result of COVID-19 pandemics.
3. Based on statistical analysis of the number of passengers serviced and cargo turnovers at Polish airports, the main problems that hinder their economic development are derived.

The achieved research results are useful for expanding the studies in the field of air transport in Europe, as it examines the state of this type of transport for a specific country and by assessing the consequences of the coronavirus pandemics.

5. Evaluation of the publications in relation to the topic of the PhD thesis candidate

The PhD candidate has presented one (1) monograph, which is a book, based on defended PhD thesis and is published by Academic Publishing House “prof. Marin Drinov”, four (4) articles and papers, published in scientific journals, refereed and indexed in world famous databases with scientific information, which are co-authored; nine (9) studies, published in scientific journals, refereed and indexed in world famous databases with scientific information, of which (8) are co-authored and one (1) individual; two (2) studies, published in non-refereed peer-reviewed journals in edited collective volumes, which are co-authored and four (4) published chapters of collective monographs.

Ten (10) of the attached publications are in the scope of the thesis. It makes a good impression the fact that most of them are published in various journals abroad and there is a book, published in the Academic Publishing House of Bulgarian Academy of Sciences in Bulgaria.

6. Evaluation of the fulfillment of the minimum national requirements

I concern that the candidate meets the minimum national requirements according to the documents submitted and in accordance with the regulations of VUZF.

It is made an inquiry about the candidate's fulfillment of the minimum national requirements for obtaining the scientific degree "Doctor of Science" in the professional field 3.8. Economy.

7. Abstract of the PhD candidate thesis

The content and quality of the abstract accurately summarizes the analysis made and the main conclusions and contributions of the thesis.

8. Critical remarks and recommendations

In relation to the presented thesis, some critical remarks and recommendations could be made:

1. In the introduction of the research, it would be good for the author to clearly formulate what are the object, subject and tasks of the thesis. The study would benefit if the candidate could also formulate a hypothesis of the study and how it is proved in the theoretical and empirical sections of the analysis of the economic aspects of air transport of Poland.
2. To be strengthened the economic aspects of air transport of Poland, the author could pay attention to the structure and development of the market of passenger and freight carriages in the country.
3. Taking into account that the aviation industry is developing at very rapid pace in comparison to the other transport modes, the author could correlate the degree of transport and infrastructure services digitalization in the field of air transport with its economic development in Poland.
4. The author could evaluate how the implementation of alternative energy sources in the field of air transport will impact its economic development and how it will contribute to the achievement of climate neutral Europe till 2050.

However, the conducted research in a great extent has achieved the goals that have been set in its introduction section.

CONCLUSION

The PhD candidate's thesis **contains scientifically-applied results, which are scientific contributions** and **they cover** the requirements of the Act on development of the academic staff of Republic of Bulgaria and the regulations for its implementation. The presented materials and conclusions in the thesis **correspond** to the specific requirements of the Regulation for admission and training of PhD students at VUZF.

The PhD candidate's thesis shows that Marek Magniszewski **possesses** theoretical knowledge and professional skills in professional field 3.8 Economics.

Having in mind the abovementioned, I give a **positive assessment** of the conducted research, presented by the above-reviewed thesis, abstract, list of contributions and I **suggest to the esteemed Scientific Jury to award scientific degree „Doctor of Science“** to Marek Magniszewski in higher education area 3. Social, economic and law sciences, professional field 3.8 Economics.

13.4.2023 г.

Reviewer:

Assoc. prof. Dr. Shteryo Nozharov