

REVIEW

**by Col. (ret.), Professor, Eng. Stoyko Dimitrov Stoykov, Ph.D., DSc.
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Register of Scientific Activity in the Republic of Bulgaria № 33078

<https://cris.nacid.bg/public/scientist-preview/13856>

Register for Academic Positions and Theses

<https://ras.nacid.bg/dissertation-preview/13856>

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Web of Science Researcher ID: N-6268-2016;

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Higher education field: 3. Social, economic and legal science;

Research area: 3.7. Administration and Management

Scientific specialization: - 05.02.24.- “Organization and management outside the sphere of material production (security and defence)”.

Higher education field: 9. Security and defence;

Research area: 9.1. National Security;

Research area: 9.2. Military Science.

Scientific specialization:

- 05.02.24. „Organization and management outside the sphere of material production (Management of security and defence)”;

- 05.12.01. „Organisation and management of Armed forces”;

- 05.12.02 “Military-political problems of security”;

- 05.12.03 “Military applied aspects of civil protection”.

for the scientific works submitted under the competition for the academic position of Associated Professor in the 9. Security and defence field of higher education, 9.1 National security (Environmental security as an element of national security) professional direction, Higher School of Security and Economics (published in the State Gazette, No. 56/19.07.2022).

The review was prepared based on Order No. 35/31.10.2022. of the Rector of the Higher School of Security and Economics.

Only candidate in the competition: Atanaska Ivanova Tuntova, PhD, part-time lecturer at the Higher School of Security and Economics.

The candidate in the competition Atanaska Ivanova Tuntova, PhD defended her doctoral dissertation and obtained the Doctor scientific degree in the 3. Social, economic and legal sciences field of higher education, 3.8. Economics professional direction, Economics and Management (Food industry) doctoral program. Diploma No. 187/30.07.2020.

The research and teaching activity of the candidate in the competition - Atanaska Ivanova Tuntova, PhD is mainly directed in the field of creation and expansion of scientific knowledge through theoretical and substantive analysis of the theory and practice of the anthropogenic impact of man on the environment and the relationship between the components of the environment and environmental security.

The prerequisites for the implementation of the National Security Strategy have been analysed in the context of the necessary financial and human resources, and the possibilities for self-purification and self-restoration of the environment have been studied and evaluated.

The relevance of the problems developed by Atanaska Ivanova Tuntova, PhD in the works proposed for review for participation in the competition, in a scientific and applied scientific sense, stems from the need to expand systematic scientific knowledge about the specifics of the interrelationship between ecology, the environment and the human being. The characteristic features of the ecosystem and the relationship with the human being are examined. Dependencies in the anthropogenic impact of the human being on the components of the environment are derived.

Opportunities are presented to use green technologies and the circular economy to protect natural resources for a longer period of time ahead.

1. General description of the materials submitted for review under the competition (monographs, textbooks, certificates and patents, articles and reports).

The participant in the competition - Atanaska Ivanova Tuntova, PhD is the author of 16 scientific publications in specialized publications. Of these, 6 are in print.

The list of materials provided to me for review contains 16 author titles. The listed titles are distributed as follows: Publications in the country: Monographs - 1; Book based on defended dissertation work -1; Scientific articles and reports – 14 items; Publications abroad -1.

I accept for review the materials presented by the candidate, which, in my opinion, are in the subject of the competition and contain contributing points in the scientific field reviewed by me. The topics developed for "Inflation and its pressure in Bulgaria in the context of security" and "Artificial intelligence - the possibility of generating fake news" are outside the scope of the competition's theme, but show interdisciplinary in the scientific interests of the candidate in the competition.

The number of publications is representative, and I estimate it as sufficient for participation in a competition for the academic position of Associate Professor at the Higher School of Security and Economics - Plovdiv.

2. General characteristics of the candidate's scientific, applied scientific and pedagogical activities.

The works of Atanaska Ivanova Tuntova, PhD submitted for review are in the field of the specialty of the competition for Associate Professor in the Security and defence field of higher education, National security, (Environmental security as an element of national security) professional direction.

The publications are in specialized scientific and popular science editions.

The candidate's style is academic, thorough, understandable and approachable.

The candidate has presented her works in a different format, organized into several main thematic areas:

- generation of new knowledge and skills for a systematic scope of issues regarding the theoretical foundations of ecology as a science and its historical development in the context of issues related to ecosystem change and the direct or indirect impact on human security;

- development of a system for the categorization of ecological factors, their influence on the development of ecosystems and their change in the interaction with different kinds of them;

- expansion of the theoretical framework of the definitions of security and environmental security existing in the literature by different authors according to their views, as well as the human-security interrelationship;

- justification of the need for an interdisciplinary approach to the analysis of the socio-economic aspects of ecology.

One of the greatest merits of the peer-reviewed scientific works of the candidate in the competition, Atanaska Ivanova Tuntova, PhD is the examination of the possibilities for analysing risk management and prevention of threats to ecosystems, population and ecological security.

3. Fulfilment of the requirements for occupying the academic position

The scientific production provided by the candidate in the competition fully meets the requirements of the Evaluation System of the indicators for occupying Associate Professor academic position by activities and indicators in National Security professional direction:

- Total points for indicator "A" -50;
- Total points for indicator "B" - 100;
- Total points for indicator "D" - 215;
- Total points for indicator "D" - 145.

With a 400-points requirement, the candidate has 510 points.

According to the presented List for original scientific contributions according to the requirements of Article 53.5 of the Regulations for the Implementation of the Law on the Development of the Academic Staff in the Republic of Bulgaria, no plagiarism in scientific works has been proven according to the law. I am not aware of and have not received evidence of plagiarism or misrepresentation of scientific information.

4. Nature of scientific contributions

The main contributions of the candidate are of a scientific, scientifically applied and applied nature and can be summarized with the achieved scientific results in the following areas:

- New knowledge and skills have been generated in the security sector through the presented relatively complete scientific theoretical concept regarding the importance of environmental security and the interrelationship of human-security;

- The theoretical and practical statements regarding the essence of ecological security and dependencies in the anthropogenic impact of man on the components of the environment have been enriched;

- The theory and practice of the urbanization process as a threat to environmental security have been further developed;

- The theoretical framework has been extended to practical dimensions of the interrelationship between ecology, environment and human. The

characteristic features of the ecosystem and the relationship with human are examined. Dependencies in the anthropogenic impact of human on the components of the environment are derived;

- Scientifically based analysis of climate change and the effect of climate change on the environment, the economy and the impact on humans has been carried out.

5. Reflections of scientific publications

The application of the results of the scientific research and regulatory activity of the candidate in the competition - Atanaska Ivanova Tuntova, PhD is evident in the scientific works provided to me for review, which is also confirmed by the presented reference for citations. Atanaska Ivanova Tuntova, PhD is the main author in the majority of the presented publications.

6. Critical Notes

Some critical remarks can also be made to the scientific works submitted for review:

- the list of the literature used in some of the publications is not formatted according to the requirements of the Bibliographic Citation Standard - BDS/ISO 690:2011;

- in the design of some of the scientific works there are inaccuracies, repetitions and editorial errors, which do not reduce their scientific value, but worsen the possibilities for quick perception;

- the main part of the published scientific works - 6 in number are publications in print, which narrows the opportunities for active participation in the scientific exchange, presentation and defence of innovative scientific ideas by the candidate before the academic community in the national security system.

I hope and recommend Atanaska Ivanova Tuntova, PhD to continue her scientific research work and the realization of the achieved scientific results in her teaching activity, because practice is a measure of the credibility of science, and the mission of science is to create the reasonable path of practice.

I believe that the presented scientific works are the candidate's independent work and successfully defend her claims for scientific and scientifically applied contributions.

I have no joint publications with the candidate.

7. Conclusion

The documentation and scientific production provided by the candidate in the competition, Atanaska Ivanova Tuntova, PhD, meet the requirements of Art. 21.(1) and Art. 24 of the Law on the Development of the Academic Staff in the Republic of Bulgaria and Art. 47.(2) and Art. 48.(3) for compliance with the minimum national requirements and with the requirements under Art. 1a, para. 2 of the Regulations for its application.

My assessment of the scientific works of Atanaska Ivanova Tuntova, PhD, the only participant in the competition for the academic position of "Associate Professor" (published in the State Gazette, No. 109 of 21.12. 2021), in the field of higher education - 9. Security and defense, professional direction - 9.1 National security (Environmental security as an element of national security) of the Higher School of Security and Economics **is "positive"**.

I propose to the respected Scientific Jury of the competition to rank the candidate, Atanaska Ivanova Tuntova, PhD Tuntova and to propose to the Academic Council of the Higher School of Security and Economics - Plovdiv that she be elected and occupy the academic position of "Associate Professor" in the field of higher education - 9. Security and defense, professional direction - 9.1 National security (Environmental security as an element of national security).

Veliko Tarnovo

15.11.2022

Reviewer:

Col. (ret.), Professor, Eng. (Stoyko Stoykov), Ph.D., DSc.