OPINION

23.05.2024 г.

on a competition for the academic position "Professor" in Higher Education Area 5.Technical Sciences, Professional field 5.13 General Engineering, Faculty of Manufacturing Engineering and Technologies, Department of Industrial Management at Technical University of Varna, Subject "Production Management", announced in State Gazette No 2/05.01.2024

Candidate: Assoc. Prof. Dr. Eng. **Tanya Pencheva Panayotova**
Member of the Scientific Jury: Assoc. Prof. Dr. Eng. **Krasimira Atanasova Dimitrova**

Assoc. Prof. Dr. Eng. Tanya Pencheva Panayotova is admitted as the only candidate to participate in the announced competition for the academic position "Professor" (Protocol № 23/08.04.2024 of the Commission for admitting candidates to participation in the competition, appointed by Order of the Rector of Technical University of Varna No.209/04.02.2024 and corrective Order No.218/ 04.05.2024).

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

A total of 39 scientific papers are submitted for review. All submitted scientific works that are outside of her dissertation for the acquisition of the academic position of Associate Professor are accepted for opinion. Assoc. Prof. Dr. Eng. Tanya Panayotova has participated in 13 projects. She has been the head of 5 of them.

The research activity of Assoc. Prof. Dr. Eng. Tanya Panayotova, is directed in two main areas - Industrial engineering and Production management.

My assessment of the candidate's research and applied scientific activity is positive. Quantitative indicators of the Minimum National Requirements by groups for the occupation of academic position "Professor" in Higher Education Area 5. Technical sciences, Professional field 5.13. General Engineering are considerably higher than required.

2. Assessment of the candidate's pedagogical qualification and activity

Assoc. Prof. Dr. Eng. Tanya Panayotova is an established teacher in the Department of Industrial Management with over 30 years of teaching experience, 16 years of which as an Associate professor.

I assess the pedagogical qualification of Assoc. Prof. Dr. Eng. Tanya Panayotova and her work as a teacher as meeting the requirements for the academic position of "Professor" based on the following:

1. The candidate actively participates in the educational and pedagogical activity, leading lectures and exercises in various disciplines, including the competitive one in the Bachelor's degree and "Master's degree in Bulgarian and English language.

2. Assoc. Prof. Dr. Eng. Tanya Panayotova has published 1 textbook and 2 study manuals in the field of Industrial engineering and Production management;

3. She has sufficient teaching experience as an Assistant, Senior assistant and Head assistant, and as well as Associate professor in Department of Industrial Management.

4. For the period 2008 ÷ 2020 she has been an academic supervisor of 99 graduates who successfully have defended their diplomas in Bachelor degree and Master degree (in Bulgarian and English language). For the last three years (2021÷2023), she has supervised 34 graduates in the Industrial Managemnt Department of Technical University of Varna. All of them have successfully defended their diploma theses;

5. Assoc. Prof. Dr. Eng. Tanya Panayotova works with students on various topics within the scope of the scientific projects presented in the reference;

6. The candidate is a scientific supervisor of 7 doctoral students, 2 of them have successfully defended their dissertations for the Doctoral degree, 4 of them have been taken out with the right to defend, and 1 is in the process of training.

In my opinion, Assoc. Prof. Dr. Eng Tanya Panayotova has excellent pedagogical qualification and is developing a successful pedagogical activity that corresponds to the requirements of the academic position "Professor".

3. Basic scientific and scientific-applied contributions

All scientific works of Assoc. Prof. Dr. Eng. Tanya Panayotova are written in a high academic style and with sufficient competence in the field of the competition. I accept the submitted contributions. They are formulated as scientific, scientific-applied and applied. I consider that they her personal work.

Also of interest is the formation of a scientific hypothesis about the manifestation of a new organizational-methodological component in the development of Concurrent Engineering, defined as "Hybrid Flexibility", which can be judged from publications Г 8.1, Г 8.6, Г 8.7, Г 8.18, Г 8.22, Г 8.32, E.24.2.

Scientific and applied contributions relate to the development of models that provide a comprehensive framework for a control of production processes, effective planning of production capacity, decision making and organizational problem solving. These can be seen in publications: В. 3.1, Г.8.1, Г.8.2, Г. 8.6, Г.8.7, Г.8.8, Г.8.10, Г.8.14, Г.8.17, Г.8.18, Г.8.25.

An important place in the research work of Assoc. Prof. Dr. Eng. Tanya Panayotova, takes the monographic work "Investigation of the impact of intellectual capital on the value of the industrial enterprise" (B.3.1).

4. Significance of the contributions for science and practice

Undoubtedly, the results presented in the scientific works are significant and reliable.

The scientific, scientific-applied and applied contributions contained in the works of Assoc. Prof. Dr. Eng. Tanya Panayotova are essential for the development and enrichment of scientific research in the field of theory and practice of Industrial Engineering and Production Management. The recognition of the works of Assoc. Prof. Dr. Eng. Tanya Panayotova in the scientific circles in Bulgaria and abroad is also proven by the citations of her works, as well as by the fact that a significant part of her scientific activity finds a place in the educational process.

I believe that in terms of volume and quality, the research and applied research activities of Assoc. Prof. Dr. Eng. Tanya Panayotova fully satisfy the requirements of the Regulations for the terms and conditions for occupying academic positions in Technical University of Varna. The quantitative indicators of the criteria of Act on Development of the Academic Staff in the Republic of Bulgaria and the Rules for its implementation for occupying the academic position "Professor" have been met and significantly exceeded.

5. Critical notes and recommendations

I have no serious remarks and recommendations to the presented materials. The candidate should expand her research activity by publishing in refereed and indexed publications with world-renowned databases of scientific information.

CONCLUSION

In my opinion, the scientific works of Assoc. Prof. Dr. Eng. Tanya Panayotova are developed at a very high level and are dedicated to a current topic that fully corresponds to the field of the competition. In the scientific works presented by her, sufficient scientific, scientific-applied and applied contributions have been realized. I do not establish plagiarism or

unreliability of the scientific data in the scientific works presented in the competition. The candidate's achievements in her pedagogical activities are also very good.

Based on my familiarity with the presented scientific works, their significance, the scientific, scientific-applied, applied and methodical contributions contained in them, I find it reasonable to propose Assoc. Prof. Dr. Eng. Tanya Pencheva Panayotova to occupy the Academic position "Professor" in Professional field 5.13. General engineering, Study discipline "Production management" in Department of Industrial management, Faculty of Manufacturing Engineering and Technologies, Technical University of Varna.

23.05.2024
Varna

Member of the Jury
/ Assoc. Prof. Dr

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