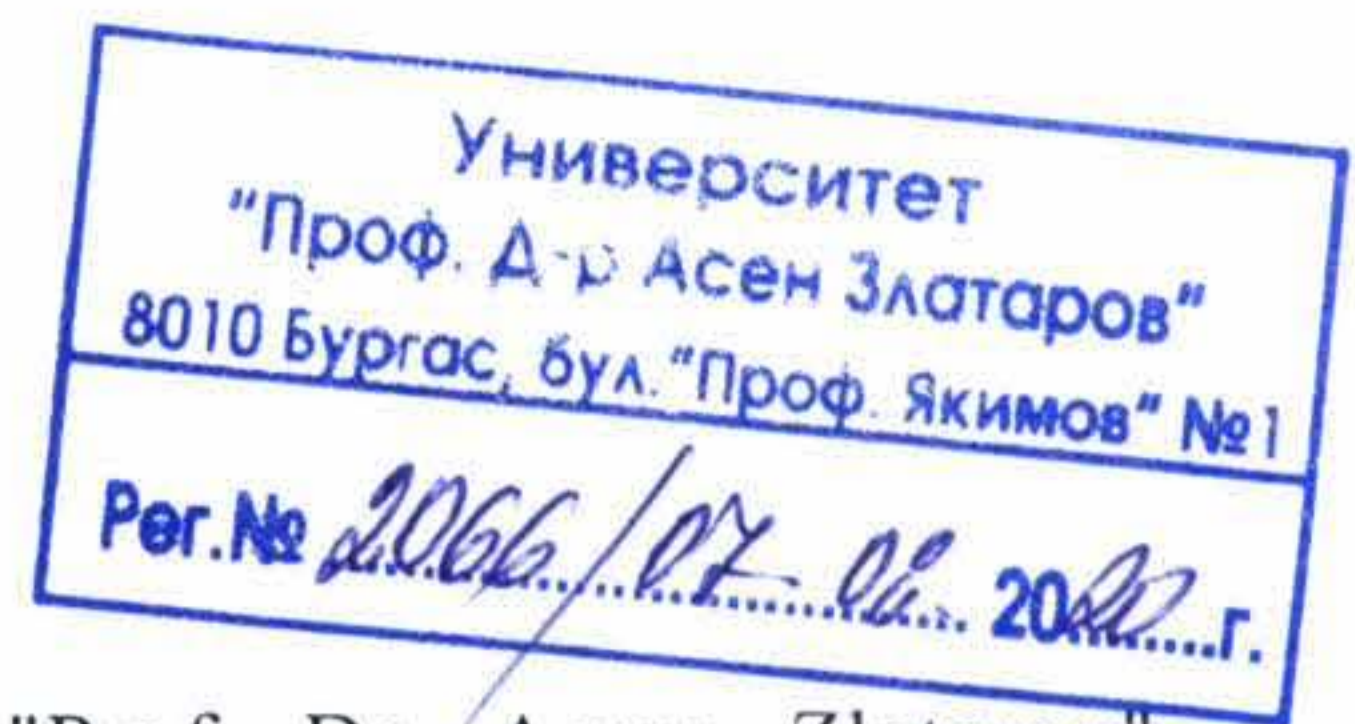


OPINION



By Eng. Yancho Hristov, PhD, Assoc. Prof., "Prof. Dr. Assen Zlatarov" University – Burgas on a competition to occupy an academic position "Associate Professor" in the field of high education 5. Technical sciences, professional field 5.1 Machine engineering, scientific specialty "Applied mechanics (Mechanics of coatings)", published in State gazette № 5/17.01.2020 г., according to the order of the Rector of the University "Prof. Dr. Assen Zlatarov" N ПД - 111 from 01.06.2020

Biographical data

Chief Assistant Professor Dr. Polina Ilieva Milusheva-Mandadzhieva, PhD is the only candidate in the announced competition in State Gazette, 5 of 17.01.2020. She graduated from the Technical School of Mechanical Engineering "Georgi Dimitrov", Burgas in 1989, Technical University - Sofia, Faculty of Engineering and Pedagogy - Sliven in 1998, University "Prof. Dr. Assen Zlatarov", Burgas 2018. He worked until 1991 in the metal products factory "Georgi Dimitrov", Burgas. Since 1993 he has been a technical contractor, since 2011 he is an assistant professor, and from 2016 until now he is a chief assistant professor in department of Electronics, Electrical Engineering and Mechanical Engineering at the Faculty of Technical Sciences of "Prof. Dr. Assen Zlatarov" University -Burgas.

General description of the materials presented

For participation of the competition, 42 scientific publications have been submitted of which 11 in referred and indexed in world-known databases with scientific information (Scopus) (Indicator B 4 – 10 pcs., and Indicator G 7 – 1 pc.) and 31 in non-referred journals with scientific reviewing (Indicator G 8.). of all the 42 publications, 14 have been published in English language, 28 in Bulgarian, for 19 of them the applicant is the single author and in 23 – coauthor. 29 of the scientific publications submitted have been reported at conferences – 1 abroad and 28 at international and national conferences held in Bulgaria.

The citations found are 32 in scientific papers, among which 5 classified for Indicator D12 and 27 for Indicator D14.

One participation in international scientific and educational project classified for Indicator E19 and 5 participations in topics elaborated at the Scientific Research Sector of the University "Prof. Dr. Assen Zlatarov", Bourgas (p.9 of the submitted documents).

Two patent applications have been submitted and published in the official bulletin of the Patent Authority (Indicator E25).

The candidate meets the general criteria, and by certain indicators exceeds the minimum national requirements and the "Prof. Dr. Assen Zlatarov" University requirements.

He defended his dissertation work - indicator A - 50 points,. At the suggestion of the reviewers, two additional publications were added and after reduction the points by group of indicators B are 480 points (10 publications), and by group of indicators D - 332 points (32 publications), 32 citations - group of indicators D - 208 points. For participation in national scientific or educational projects, international project and teaching aids - indicator group E - 120 points.

General characteristics of the applicant's research and applied activities

The results and studies presented in the publications can be summarized in several thematic areas:

1. Deposition of metal, graphene and wear resistant coatings onto polymeric materials
2. Studies on the mechanical characteristics of deposited coatings and surface properties of thin layers.
3. Simulation studies and optimization of mechanical constructions with deposited coatings.
4. Other directions.

Educational and lecturing activity

Documents describing the educational and lecturing activity of Chief Assistant Professor Eng. Polina Ilieva Milusheva-Mandadzhieva, PhD have been submitted as follows: Information about the participation in the development of educational curricula for the last three years:

- Conducting lectures and exercises in 7 subjects for the Bachelor's degree and 5 subjects for the Master's degree.
- New curricula for the educational and qualification degree of "Bachelor" full-time form of education – 5 pieces;
- Updated educational curricula for the educational and qualification degree of "Bachelor", full-time form of education – 7 pieces.

Information about the courses of lectures developed for the last three years:

- For the educational and qualification degree of "Bachelor", full-time and part-time forms of education – 2 pieces;
- For the educational and qualification degree of "Master", full-time form of education – 2 pieces.

One textbook and 1 handbook have been published.

Guidance of three graduating students.

Conclusion

The scientific activity of Dr. Eng. Polina Ilieva Milusheva-Mandadzhieva covers the requirements of the Rules for the conditions and procedure for obtaining academic degrees and occupation of academic positions at the "Prof. Dr. Assen Zlatarov" University - Burgas, which is a reason to give a positive assessment of the materials with which the applicant participates in the competition for "associate professor" and to recommend to the honorable members of the Scientific Jury, and subsequently to the honorable members of the Faculty Board of FTN, to vote positively for the award of Ch. Assistant Professor Polina Ilieva Milusheva-Mandadzhieva to the academic position of "Associate Professor" in the field of high education 5. Technical sciences, professional field 5.1 Machine engineering, scientific specialty "Applied mechanics (Mechanics of coatings)".

07.08.2020

Burgas

Gave an opinion:

/Eng. Y. Hristov, Ph.D, Assoc. Prof./