

OPINION

by **Prof. D.Sc. Eng. Ivan Stoyanov Yatchev**, Technical University of Sofia

on the materials submitted for participation in a competition for the academic position "Associate Professor"

in the area of higher education - 5. Technical sciences,

by professional field - 5.2. Electrical engineering, electronics and automation,

specialty - "Electrical power supply and electrical equipment" (Electronic devices in the electrical power engineering)

In the competition for associate professor, announced in the State Gazette, issue 68 / 31.07.2020 and on the website of TU-Gabrovo for the needs of the Department of Electrical Power Supply and Electrical Equipment at the Faculty of Electrical Engineering and Electronics, as a candidate participates Dr. Eng. Hristo Todorov Ibrishimov - Ch. Assistant Professor in the department for the needs of which the competition was announced.

The opinion was prepared in accordance with the requirements of the Regulations for acquiring scientific degrees and holding academic positions at the Technical University - Gabrovo.

1. Overview of the content and results in the presented works

In the competition for associate professor Ch. Assistant Professor Ibrishimov presented a total of 31 scientific publications and 2 manuals for students. Information on citations and participation in research and educational projects is also presented. The presented scientific publications are divided into two groups:

A. Publications equivalent to a monograph (group of indicators B4) - 10 in editions that are referenced and indexed in world-renowned databases of scientific information - Scopus and Web of Science. One of these publications is in a journal with SJR.

B. Publications other than those equivalent to a monograph - formed in two subgroups:

- in publications that are referenced and indexed in world-renowned databases with scientific information (indicator group G7) - a total of 3 conference papers. In this subgroup, the candidate is the first author in one;

- in unreferenced journals with scientific review or in edited collective works (group of indicators G8) - 18 conference reports. Of the publications in this subgroup, in 5 the candidate is the only author.

All publications in groups of indicators B4 and G7 are in English, and of those in group indicators G8 one is in English and the others - in Bulgarian.

A reference for citations of the candidate's works is presented, from which it is evident that the candidate has 8 citations in SCOPUS.

2. General characteristics of the candidate's activity

2.1. Educational and pedagogical activity (work with students and doctoral students)

The educational and pedagogical activity of Ch. Assistant Professor Dr. Ibrishimov is significant. An official reference is presented for conducted lectures and laboratory exercises in 5 disciplines, whose main lecturer is the candidate. His study load in the last three academic years is on average over 460 hours per year. The presented two manual for students with the candidate being the only author should be evaluated positively. Ch. Assistant Professor Ibrishimov has also developed three study programmes for students at Bachelor's degree. He also participated in the development of a new electronics training laboratory.

2.2. Scientific and scientific-applied activity

In addition to the published scientific production, Ch. Assistant Professor Ibrishimov presented information for participation in projects. He has participated in two projects under the operational programs and in one national research project at the national Science Fund. He has also been the leader of two university research projects. The award-winning report of the CompSysTech conference should also be noted.

3. Contributions (scientific, scientific-applied, applied). Significance of contributions to science and practice

The main contributions of the applicant can be summarized as follows:

- an analytical solution of a coupled problem of electromagnetic-thermal field for a specific construction of an induction heating system has been obtained;
- a device for generating, forming, transmitting and receiving an ultrasonic signal with pre-set parameters has been developed;
- computer models of elements of different devices and systems have been developed;
- models for student training have been developed.

The comparison of the candidate's indicators with the minimum requirements for holding the academic position "Associate Professor" in the Regulations for acquiring scientific degrees and holding academic positions at the Technical University - Gabrovo shows that for most indicators the candidate exceeds the minimum requirements.

4. Assessment of the personal contribution of the candidate

An equal contribution of the candidate to the joint publications can be assumed.

5. Critical remarks and recommendations

In some articles, formal remarks of a technical nature could be made that do not affect the quality of the results obtained.

A recommendation may be made in the future for the candidate to publish his results in publications with an impact factor.

CONCLUSION

Given the above, I propose Chief Assistant Professor Dr. Eng. Hristo Todorov Ibrishimov to take the academic position "Associate Professor" in the area of higher education 5. Technical sciences, professional field 5.2. Electrical engineering, electronics and automation, specialty "Electrical power supply and electrical equipment" (Electronic devices in the electrical power engineering).

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Jury member: /signature/

/ Prof. DSc I. Yatchev /