



## STATEMENT

by Assoc. Prof. Eng. Ivaylo Raychev Belovski, PhD,  
"Prof. Dr. Asen Zlatarov" University

**of the materials submitted for participation in the competition  
to occupy the academic position of "associate professor"  
in the field of higher education - 5. Technical sciences,  
by professional field - 5.2 "Electrical engineering, electronics and automation", specialty  
- "Power Engineering (Electrical networks and systems)"**

In the competition for associate professor, announced in the State Newspaper, no. 42 of 12.05.2023 and on the website of the "Prof. Dr. Asen Zlatarov" University for the needs of the Department of "Electronics, Electrical Engineering and Mechanical Science" at the Faculty of Technical Sciences, as a candidate participated Principal Assistant Professor Eng. Mehmed Kadir Hasan, PhD - "Prof. Dr. Asen Zlatarov" University.

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

The candidate, Eng. M. Hasan, PhD has submitted numerous materials and supporting evidence for participation in the competition for associate professor: an application to the Rector, a curriculum vitae; copy of diploma for the educational and scientific degree "doctor"; list and copy of scientific works; author reference of citations; author reference for scientific contributions; certificate of educational and pedagogical activity, certificate of fulfillment of the minimum requirements specified in the Regulations for the conditions and procedures for acquiring scientific degrees and occupying academic positions (RPASDOAP) at the "Prof. Dr. Asen Zlatarov" University, etc.

To participate in the competition, the candidate submitted 17 scientific publications, of which 3 in publications that are referenced and indexed in world-famous databases with scientific information, 6 textbooks and teaching aids, participation in 3 scientific research projects and 29 citations, of which 8 in scientific publications, referenced and indexed in world-renowned databases of scientific information. Eng Hassan's H-index in SCOPUS is currently 1.

As can be seen from the evidence presented, the candidate fully meets the minimum national requirements for the position of "associate professor", and in some of the characteristics exceeds them. Therefore, the participation of Eng. M. Hassan, PhD in the competition is completely legitimate.

### 2. General characteristics of the applicant's activity

The candidate works on an employment contract at the "Prof. Dr. Asen Zlatarov" University from September, 2018, and during the past period, he successively held the academic positions: assistant and principal assistant, and actively participated in conducting lectures, laboratory and seminar exercises. In the period from 1997 to 2002, he worked as a teacher at Prof. Dr. Asen Zlatarov University.

The disciplines in which Eng. M. Hassan, PhD is a leading teacher are:

- In OKS "professional bachelor" - "Electrical machines", "Electrical devices", "Electroenergetics", "Electrical equipment", "Testing and reliability of electrical devices", "Educational practice", etc. ;

- In OKS "Bachelor" - "Materials in Electronics" - leads the laboratory exercises.

Its auditor employment for the last three academic years varies between 535 hours and 558 h. He participated in the creation of 14 study programs - 12 for the Professional Bachelor's

degree program and 2 for the Master's degree in Electrical Engineering ( Professional Bachelor's degree program) and Electrical Engineering - 4 semesters ("master's degree") . He is the author of three textbooks and three teaching aids in the field of the subject of the current competition. Possesses a certificate of professional qualification for the maintenance of electrical and electronic systems in the car, issued by the Ministry of Economy, Industry and Tourism of Spain, as well as a certificate of training in English with an emphasis on its use in the professional field 5.2.

The candidate defended his PhD degree in 2021 at TU - Sofia, IPF - Sliven, majoring in "Electrical Networks and Systems".

The scientific publications with which the candidate participates in the competition are mainly in the field of energy efficiency of the power system - its optimization and reliability. The presented total of 17 publications - 15 independent and 2 in co-authorship exceed the minimum national requirements under group "D" indicators, as well as the requirements of RPASDOAP at "Prof. Dr. Asen Zlatarov" University.

A total of 29 citations were noted in the citation report in which the applicant's publication was cited, which is evidence of the wide awareness of the scientific community about the works of Eng. M. Hassan, PhD presented at national and international scientific conferences and published in specialized scientific journals.

The candidate, Eng. M. Hassan, has participated in three research projects so far, one of which (at the Research Institute of Prof. Dr. Asen Zlatarov University) he is the head of.

In the submitted documents of the applicant, there is no data on entrepreneurial activity.

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

I accept the contributions in the applicant's author reference, and I summarize the scientific-applied, applied and teaching-methodical contributions by groups:

1. Research and optimization of the energy efficiency of electrical networks;
2. Research and optimization of the connection of decentralized generating sources in the Electric Power System (EES);
3. Research and optimization of the reliability of EES;
4. Research of new technologies for converting renewable energy sources (solar, water and hydrogen) into electricity.

### **4. Assessment of the candidate's personal contribution**

The scientometric data for the candidate exceed the minimum national requirements, as well as some of the indicators approved in RPASDOAP at the "Prof. Dr. Asen Zlatarov" University for occupying the academic position "associate professor" and they are: 50 points for group of indicators "A" ; 100 points for indicator group "B"; 380 points for group of indicators "C"; 122 points for group of indicators "D" and 163.3 points for group of indicators "E".

The candidate's personal contribution is significant for theory and practice and is expressed in the numerous studies conducted to optimize the energy efficiency of electrical networks, their reliability and functionality.

The personal contribution of Eng. M. Hassan, PhD in educational activities is also significant and successful.

In general, all the necessary requirements and indicators have been fulfilled, taking into account RPASDOAP at "Prof. Dr. Asen Zlatarov" University.

### **5. Critical notes and recommendations**

I have no substantive critical remarks, but I would recommend the following to Eng. M. Hassan:



- to strengthen its publication activity in renowned foreign scientific journals and international conferences, referenced and indexed in the world-famous databases with scientific information ;
- to work proactively with the future students in the OCS "master" as a supervisor of diploma theses;
- to join research teams working on national and international projects.

#### **6. Personal impressions**

I know Principal Assistant Professor Eng. Mehmed Hasan, PhD as a member of the "Electronics, Electrical Engineering and Mechanical Science" department, and I have very good impressions of him. I believe that he has the necessary competence in the scientific direction of the competition and the potential for realization as an erudite teacher at the University.

#### **7. Conclusion:**

**Bearing in mind the above, I propose Principal Assistant Eng. Mehmed Kadir Hassan, PhD to be elected as an "associate professor" in the field of higher education - 5. Technical sciences, professional field - 5.2 "Electrical engineering, electronics and automatics", specialty - "Power Engineering (Electrical networks and systems)" .**

23.08.2023

Jury member:



/ Assoc. Prof. Ivaylo Belovski, PhD/