

REPORT

to occupy the academic position:

"Professor"	
"Associate Professor"	X
	one of the academic positions indicated shall be marked with the sign "X"

Candidates to occupy the position:

1	Chief Assist. Prof.	Dr.	Silvia	Dimitrova	Traykova-Parhomenko	UCTM
№	academic position	scientific degree	name	middle name	last name	workplace

Scientific area:

1.	Pedagogical Sciences
code	name

Professional area:

1.2.	Pedagogy
code	name

Scientific specialty:

Professional education

The competition has been announced:

68	13.08.2024	Humanities	Faculty of Metallurgy and Material Science
in SG issue	date	for the needs of the Department	Faculty

The report was written by:

Prof.	Dr.	Dancho	Lyubenov	Danalev	UCTM
academic position	scientific degree	name	middle name	last name	workplace

1. Report for the candidate:

Chief Assist. Prof.	Dr.	Silvia	Dimitrova	Traykova-Parhomenko
academic position	scientific degree	name	middle name	last name

1.1. Meeting the minimum requirements under the Regulations:

A) The candidate meets the minimum requirements	20 points	X
B) The candidate doesn't meet the minimum requirements	0 points	
		one of the answers given is marked with the sign "X"

It must be filled in if answer B is marked. The publication activity of the candidate is analyzed. The response of the results achieved (quoted) is analyzed.
<p>The only candidate for the announced contest is Chief Assistant Professor Dr. Silvia Traykova-Parkhomenko. She obtained her Ph.D. Degree in 2008 in the scientific specialty "Theory of Education and Didactics" at Sofia University "St. Kliment Ohridski". The candidate for the academic position of "Associate Professor" submits the following materials for participation in the contest:</p> <ul style="list-style-type: none"> - Under indicator 1 - a defended Ph.D. thesis on the topic "Stimulating learning motivation through formative assessment in the initial stage of education (grades I and II)", which brings her an asset of the required 50 points - Under indicator 3 - a monograph on the topic "Assessment and the influence on learning motivation - A look at secondary vocational education and higher engineering technological education". The monograph is presented on 158 standard pages and fully meets the requirements of paragraph 1, point 12 of the Regulations for application of the Act for development of the academic staff of the Republic of Bulgaria, which brings her the required asset of 100 points under this indicator. - Sum of indicators 4 to 10 - materials covering indicators 6 and 7 are presented, as follows: The total number of publications submitted for participation in the contest is 24, where 4 scientific publications (scientific publications with numbers 10, 15, 20 and 24) are presented under indicator 6, carrying a point asset under the indicator of 72 points. A total of 20 publications are presented under indicator 7, carrying a point asset of 158.33 points. Thus, the total point asset under this indicator of the candidate is 230.33 points, which significantly exceeds the required minimum 200 points according to the Regulations for application of the Act for development of the academic staff of the Republic of Bulgaria. - Sum of indicators 11 to 13 - 4 citations are presented, carrying a point asset of 40 points and 3 reviews of scientific articles (one for a scientific publication in a journal refereed in Scopus database and two for a non-refereed journal), carrying a point asset of 25 points. Thus, the accumulated point asset on the indicator is 65 points, which again exceeds the required minimum of the Regulations for application of the Act for development of the academic staff of the Republic of Bulgaria of 50 points. - Sum of indicators from 14 to the end - a published textbook COMPETENCY APPROACH AND INNOVATIONS IN EDUCATION - Assessment of learning outcomes. Applied aspects in higher engineering technological education and secondary vocational education

published in 2024 with a single author, Chief Assistant Professor Dr. Silvia Traykova-Parkhomenko, which brings a point asset of **40** points to the candidate.

It is evident from the brief analysis of the scientometric indicators of the candidate for the academic position of "Associate professor" Chief Assistant Professor Dr. Silvia Traykova-Parkhomenko that she fully covers, and in some cases exceeds the minimum requirements of the Regulations for application of the Act for development of the academic staff of the Republic of Bulgaria for the academic position of "Associate professor" in the claimed professional field.

1.2. Relevance of scientific and / or applied research:

A) The research is relevant. Part of the research is pioneering (no results are known on the topic by other authors)	8 points	
B) Research is relevant. Results from other authors are known for each of the topics and / or applications studied.	6 points	X
C) Most of the research is relevant, but also some results are presented that have no scientific and / or applied value	4 points	
D) The smaller part of the research is relevant	2 points	
E) Research is not relevant	0 points	
		one of the answers given is marked with the sign "X"

The evaluation of the relevance of the research must be substantiated.

As can be seen from the materials presented in the contest by the only candidate, Chief Assist. Prof. Dr. Silvia Traykova-Parkhomenko, her scientific interests and achievements are in modern and relevant areas: Pedagogy of secondary and higher education; Vocational education; Assessment in the learning process; Motivation for learning; Psychology of communication; Teaching methodology; Communications in academic and work environments; Career development and entrepreneurship.

All scientific works (including Textbook, Monograph, articles/publications, reports from scientific conferences) are dedicated to scientific interests and research in the field of applying new methods and forms of training - in the teaching process and in assessing learning outcomes, in order to implement a competency-based approach in education.

Evidence of the adequacy and relevance of the research that Chief. Assist. Prof. Dr. Silvia Traykova-Parkhomenko is also the presence of many other scientific groups both in Bulgaria and abroad, working in the above-cited scientific areas.

1.3. Objectives of the research:

A) Realistic and of scientific and / or applied interest	8 points	X
B) Realistic, but not of scientific and / or applied interest	4 points	

C) Unattainable (unrealistic)	0 points	
		one of the answers given is marked with the sign "X"

Objectives must be specified. The type of the set objectives must be justified
<p>All achievements in rapidly developing science as well as pedagogical practice in the context of the development of modern online and Internet technologies and the dynamics of developing methods of training and assessment would not be possible without the training and creation of personnel with sufficiently high competence, technological literacy and adaptability in a dynamic environment, based on approaches in training and the creation of adequate methods and approaches for assessment and self-assessment of learners throughout the entire period of their training. Benchmarking in assessment and self-assessment is an important indicator of the quality of education because it shows the difference between external and internal perception of the level of training and developed skills and competencies. In this way, the teacher will conclude whether the assessment and criteria are adequate, objective and consistent with the perceptions of students, as well as their internal satisfaction with the subject.</p> <p>The engagement of students in the assessment process, the previously announced criteria, the use of self-assessment in universities with an engineering and technological profile help to increase the motivation for learning and to develop useful skills applicable both in an educational environment and in a professional one. The formation and development of transferable and applicable skills in a dynamic environment takes place already in secondary education. These skills and competencies are developed at a higher level in the process of education in universities. Therefore, the methods of education, and assessment in particular, should arouse the attention and interest of the students direct them to active participation and engagement in the activities. The methods should help to develop the skills of critical and creative thinking, decision-making and responsibility, to form and develop leadership skills. All these skills are sought after by business and help to achieve good success in the profession and for career development. The creation of appropriate approaches, methods, tools and platforms for training, as well as adequate and adaptive methodologies for assessment and self-assessment is a key element in training and teaching in both secondary and higher education.</p> <p>In this whole context, it is clear that the approaches and methods developed and used in the developments of Chief Assist. Prof. Dr. Silvia Traykova-Parkhomenko are fully adequate to the turbulent pedagogical environment, where at the present time, especially in higher education and the working environment, students with significant differences in the levels of knowledge, skills and competencies are often encountered, and this deficit must be balanced by creating specific methods and approaches for training, so that graduating specialists can have a relatively uniform final level of competence after their training, which will meet the requirements of pedagogical education and give them a suitable and adequate start in their future career. In this whole context, the developments presented by Chief Assist. Prof. Traykova-Parkhomenko are deeply connected to the needs of contemporary practice in the field of Pedagogy.</p>

1.4. Candidate research contributions:

A) With lasting scientific and / or applied response, they form the basis for new research and applications	20 points	
B) They are of significant scientific and / or applied interest, complete and / or summarize previous research	16 points	X
C) They are of scientific and / or applied interest	12 points	
D) Lack of significant contributions	8 points	
E) Lack of contributions	0 points	
		one of the answers given is marked with the sign "X"

Contributions must be specified. The type of results achieved must be justified.
The main contributions can be summarized as follows: - research among students on their opinions and attitudes towards the assessment of learning outcomes; - research on methods and techniques for increasing the motivation for learning of students; - research on attitudes and satisfaction with the use of innovative teaching methods that will increase students' interest in the learning content and in science in general; - research on the opinions, attitudes and satisfaction of students regarding the use of methods and techniques for self-assessment and peer assessment in the learning process.

1.5. Participation of the candidate in the achievement of the presented results:

A) The candidate has at least an equal participation in the submitted papers	8 points	X
B) The candidate has at least an equal participation in most of the submitted papers	7 points	
C) The candidate has a secondary participation in most of the submitted papers	4 points	
D) The candidate participation is unnoticeable	0 points	
		one of the answers given is marked with the sign "X"

Critical notes must be provided if one of the items C or D is marked. In half of the scientific papers submitted for participation in the contest, the candidate Chief Assist. Prof. Dr. Silvia Traykova-Parkhomenko is the sole author (12 publications). In 11 of the publications, she is a co-author with one more author, but in the majority of them (8 publications) she is the first, leading author and in only one publication she is a co-author

with two other authors. All this shows that she is the main person who made the presented scientific and applied researches and has actively participated in their development and shaping as scientific papers.

1.6 Pedagogical activity:

A) The candidate has effective and sufficient pedagogical activity at the university. The textbooks issued are modern and useful (they meet the requirements of the Regulations). The work with undergraduate and doctoral students is at a high professional level.	8 points	X
B) The candidate has sufficient pedagogical activity at the university. The textbooks issued satisfy the requirements of the Regulations.	6 points	
C) The pedagogical activity and / or textbooks issued are insufficient (do not meet the requirements of the Regulations)	0 points	
		one of the answers given is marked with the sign "X"

Critical notes must be provided if one of the items B or C is marked.

1.7. Critical notes:

A) Lack of critical notes	8 points	X
B) Critical notes of a technical nature	7 points	
C) Critical notes that would partially improve the results achieved in a small part of the research	5 points	
D) Critical notes that would partially improve the results achieved in most of the research	3 points	
E) Significant critical notes	0 points	
		one of the answers given is marked with the sign "X"

Critical notes must be provided if one of the answers C, D or E is marked.

I have no critical remarks to the candidate regarding her scientific production and academic commitment. I would like to make a recommendation to Chief Assistant Professor Traykova-Parkhomenko to more boldly present her developments in scientific journals referenced and indexed in world databases, as I believe that they fully correlate with the contemporary needs and trends in the field of Pedagogical Sciences, are made at a high scientific level and would be of interest to the world scientific community.

1.8. Conclusion

A) The evaluation of the candidate's activity is POSITIVE	This evaluation is assigned to a total number of at least 50 points	X
B) The evaluation of the candidate's activity is NEGATIVE	This evaluation is assigned to a total number below 50 points	
		one of the answers given is marked with the sign "X"

To be filled in if requested by the member of the scientific jury

I know the candidate for the academic position of "Associate professor", Chief Assist. Dr. Silvia Traykova-Parkhomenko from the several opportunities to work together. Since I graduated from the Dean's Office for Parallel and Distance Learning of the UCTM with a specialization in Chemistry and Environmental Protection Teacher, General Technical and Special Subjects, where I had the great pleasure of having her be my teacher in several of the disciplines studied, and I can say that she is an extremely erudite and deeply integrated teacher in her pedagogical activity, who uses the most modern methods and approaches to teaching and assessing the achievements of her students. The process of training in the disciplines she teaches cannot be defined as an obligation, but rather as a purposeful acquisition of knowledge, skills and competence through her application of adequate and methodologically interesting approaches to imparting knowledge to the students. As a result of this training of mine and the teachers in this specialization, one of whom is Chief Assist. Prof. Dr. Traykova-Parkhomenko instilled in me the desire to develop in the field of teaching and learning methodology, which led me to teach in the secondary education system for several years and gave me valuable experience. She is also one of the people who provoked my interest in developing in the field of teaching.

24.11.2024	The report was written by:	
date		signature