Bulletin of the *Transilvania* University of Braşov Series IX: Sciences of Human Kinetics • Vol. 15(64) No. 1 – 2022 https://doi.org/10.31926/but.shk.2022.15.64.1.8

SELF-PERCEPTION OF SKILLS SPECIFIC TO PROFESSIONAL DEVELOPMENT IN PHYSICAL EDUCATION AND SPORTS

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Abstract: The aim of our study was to identify the perception of the role of mentors and mentors in the initial vocational training process (mentoring process). Differences between the amounts of scores obtained in the questionnaire for self-assessment of the perception of specific competencies in physical education and sports (EFS) between the two samples of the preliminary study was 3.09 points, the group of mentors registered 115.17 points, and the group of mentors 118.26 points. The total cumulative value recorded by both samples is between 160-105 points according to the score of the questionnaire, which indicates that both samples have a very good perception of the level of development and manifestation of EFS specific competencies in carrying out initial teaching and training activities. The development and implementation of an effective mentoring process during the initial training period is impetuous and we believe that it will ensure the premises of a teaching career focused on continuous and effective professional development, and implicitly by expanding professional skills specific to physical education and sports.

Key words: mentoring, mentored, physical education, specialized skills, inter-transdisciplinary skills.

1. Introduction

The modern approach of general education must be correlated with the tendencies of updating and dynamizing

the contents and on permanent professionalization of the teachers. The permanent updating and extension of teachers' competencies facilitates the modernization and improvement of the

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complex process of physical education which has as major objectives: social integration, health optimization, physical development and optimization of motor skills [6], [7], [9], [10]. The challenges of modernizing and adapting physical and sports education are complex and involve changes in the specific objectives, forms of technologies organization and and methods used and aim at both the training of teachers and the work of students [2], [4], [5]. The training of teachers specialized in physical education and sports with high professional qualification is a desideratum of the current education, and this objective can be achieved only by the innovative reform of the process of training and development of the teaching career, especially in the beginning. The mentoring process requires establishing a relationship directed between the mentor and the mentored person and must be based on a mutual appreciation of the involvement, role and responsibilities of each party.

2. Materials and Methods 2.1. Hypotheses of preliminary study

The specific hypothesis of this preliminary study was based on the assumption that by identifying the perception of mentors and mentors on the level of development of specific professional skills in physical education and sports they can be aware and optimized in the initial training process (mentoring process).

2.2. Research organization

This preliminary research was conducted between March and July 2016, and included two sessions: one for mentors and one for mentors. Mentored sample -40 beginning and / or master students in the master's degree programs in school physical education and leisure activities at the Faculty of Physical Education and Mountain Sports of the Transilvania University of Brasov ". Sample of mentors - 24 mentors / tutors of specialized practice (pedagogical practice), coordinating university teachers for specialized internships and teachers with experience in coordinating students during the internships of specialized practice / pedagogical practice (first grade teachers, collaborators at the faculty) profile from Brasov). Specialists who have been mentoring and guiding the pedagogical / specialized practice in the last 3 years have been eligible for inclusion in the group of mentors.

2.3. Evaluation tools

In the study we used a standardized and validated questionnaire called - The selfassessment questionnaire for the perception of specific EFS competencies by mentors and mentors, included 40 items, divided into two subscales [8-10]. The questionnaire was developed in Google Form and distributed online to respondents. The questionnaire consists of 3 parts: one demographic, one on general skills and the last on specific skills. In our preliminary study we analyzed only the last part about self-perception skills specific to vocational training in physical education and sports. For the evaluation of each item of the questionnaire, the Likert scale with 4 levels of assessment was used, where mentors and mentors assessed their level of specific competencies, so the scores were: 1 point - completely incompetent, 2 points - less competent, 3 points - competent, 4 points - very competent. Questionnaire score (personal contribution): between 160-105 points have a very good perception of the level of development and manifestation of specific EFS skills; between 105-50 points the perception is a good one that needs to identify the aspects that need revision or improvement; below 50 points the perception of the mentors and mentors regarding the specialized competencies is unsatisfactory and requires a major involvement and theoretical and practical activity in order to improve the specialized competencies and to optimize the level of professional competence.

2.4. Statistical analysis

In the preliminary research we used the bibliographic method: survey, statistical method and graphic method. The results were processed in SPSS 24, and the calculated statistical parameters were: Cronbach's Alpha (α), arithmetic mean (X), standard deviation (SD), difference of arithmetic means (Δ X), sum of points (Σ), difference of sums (Δ Σ), Student's test (T), confidence coefficient with the two levels lower and upper (95% CI), the probability level selected for this preliminary research was p 0.05.

3. Results

For the questionnaire for the perception of specific physical and sports education competencies, the value of Cronbach's Alpha (α) for the sample of mentors was 0.802, and for the sample of mentors of 0.834 which shows a very good internal consistency, the questionnaire being statistically validated and we decided to use it in our preliminary and final research.

Table 1

	Items	Group	Х	SD	t	Р	95% CI	
							Lower	Upper
1.	Recognizing and mentoring students	Mz	3,450	,638	34,173	,000,	3,245	3,654
	with athletic talent	М	3,416	,653	25,599	,000,	3,140	3,692
2.	Qualification to demonstrate skills	Mz	3,225	,831	24,525	,000,	2,959	3,491
	that are part of the curriculum	М	3,166	,816	19,000	,000,	2,821	3,511
3.	Respect for the principles of inclusion,	Mz	2,800	,911	19,429	,000,	2,508	3,091
	individualization and differentiation	М	2,875	,850	16,566	,000,	2,516	3,234
4.	Qualification for the pedagogical	Mz	3,175	,843	23,795	,000,	2,905	3,444
	management of the class at EFS	М	3,416	,816	19,000	,000,	2,821	3,511
5.	Qualification for first aid in the event	Mz	2,650	,948	17,667	,000,	2,346	2,9534
	of injury	М	3,041	,750	19,852	,000,	2,724	3,358
6.	Qualification to demonstrate skills	Mz	2,600	1,007	16,319	,000,	2,277	2,922
	that are not part of the program	М	2,958	,907	15,963	,000,	2,575	3,341
7.	Qualification for different ways of	Mz	2,600	,955	17,211	,000,	2,294	2,905
	assessing and grading knowledge in SAI	М	3,000	,884	16,613	,000,	2,626	3,373
8.	Ability to use different teaching	Mz	3,125	,852	23,171	,000,	2,852	3,397
	methods and forms of teaching EFS	М	3,208	,779	20,176	,000,	2,879	3,537

Descriptive statistics of the Questionnaire for self-assessment of the perception of specific competences EFS, subscale 1- Specialized didactic competences

	Items		Х	SD	t	Р	959	% CI
							Lower	Upper
9. Qualification	to encourage students	Mz	2,625	1,102	15,063	,000,	2,272	2,977
to be active i	n leisure sports	М	3,083	,880	17,154	,000,	2,711	3,455
10. Organization	al skills and knowledge	Mz	3,075	,888,	21,893	,000,	2,790	3,359
for the imple extracurricula	mentation of school and ar programs	М	3,208	,832	18,869	,000	2,856	3,560
11. Qualification f	for the evaluation of one's	Mz	3,175	,843	23,795	,000,	2,905	3,444
own pedagog	ical activity in education	М	3,333	,761	21,448	,000,	3,011	3,654
12. Qualification	for setting objectives	Mz	3,050	,985	19,568	,000,	2,734	3,365
according to	the curriculum	М	3,250	,846	18,798	,000,	2,892	3,607
13. Qualification	to encourage a	Mz	3,325	,729	28,813	,000,	3,091	3,558
student's per	sonal progress	М	3,333	,761	21,448	,000,	3,011	3,654
14. Qualification	for planning a process	Mz	3,100	,871	22,505	,000,	2,821	3,378
according to	o the analysis of the	М	3,250	,794	20,053	,000,	2,914	3,585
status, the cu	ırriculum							
15. Qualification	for the formation and	Mz	2,775	,946	18,533	,000,	2,472	3,077
transmission	of feedback information	М	3,250	,794	20,053	,000,	2,914	3,585
16. Qualification	for the efficient	Mz	2,625	1,074	15,392	,000,	2,280	2,970
transmission SAI lessons	of theoretical content in	М	3,208	,832	18,869	,000	2,856	3,560
17. Qualification	to encourage creativity	Mz	3,075	,888,	21,893	,000,	2,790	3,359
in finding solu	utions to motor tasks	М	3,041	,858	17,354	,000,	2,679	3,404
18. Qualification	for connecting \ensuremath{EFS} with	Mz	3,075	,888,	21,893	,000,	2,790	3,359
other subject	S	М	3,083	,829	18,206	,000,	2,733	3,433
19. Qualification	to encourage student	Mz	2,975	,973	19,324	,000,	2,663	3,286
learning in ar way	n instructive and creative	М	3,208	,832	18,869	,000	2,856	3,560
20. Qualification	for diagnosis of physical	Mz	3,375	,704	30,284	,000,	3,149	3,600
condition		М	3,291	,690	23,362	,000,	3,000	3,583

Mz- group mentees, M – group mentors

The best values given by the group of mentors (Table 1) were recorded at: item 1 - Recognition of students with sports talent and their guidance with 3.25 points, item 20 - Qualification for diagnosing physical condition with 3,375 points and item 13 - Qualification to encourage a student's personal progress by 3.25 points. The lowest results recorded by the sample of mentors were in item 6 - Qualification to demonstrate skills that are not part of the program and in item 7-Qualification for different ways of assessing and grading knowledge in EFS

with 2.6 points. For the sample of mentors, at subscale 1, the highest score was registered in item 1- Recognition of students with sports talent and their guidance and in item 4 - Qualification for the pedagogical management of the class at EFS, both with 3,416 points (Table 1). The good scores recorded by the sample of mentors in most of the items reflect a good concern for the further professional development and implicitly for the formation and extension of the specialized didactic competences in physical and sports education.

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Table 2

Descriptive statistics of the Questionnaire for self-assessment of the perception of specific competences EFS, subscale 2- Inter-trans-disciplinary competences

Image: Image with the second	ower Uppe 852 3,397 679 3,404
1. Understanding methodological ways in Mz 3,125 ,852 23,171 ,000 2,	852 3,397 679 3,404
teaching shills that are not part of the NA 2.041 959 17.254 900 2	679 3,404
עטע עגע גער גער גער גער גער גער גער גער גע	,
program	
2. Understanding the historical aspects of Mz 2,600 ,955 17,211 ,000 2,	294 2,905
EFS M 2,583 ,880 14,373 ,000 2,	211 2,955
3. Understanding the physical and motor Mz 3,075 ,858 22,641 ,000 2,	800 3,349
development of children and M 3,041 ,806 18,477 ,000 2,	701 3,382
adolescents	
4. Understanding the methodical ways of Mz 3,175 ,812 24,701 ,000 2,	915 3,435
teaching motor skills in the curriculum M 3,166 ,761 20,375 ,000 2,	845 3,488
5. Understanding the EFS curriculum. Mz 2,750 1,006 17,282 ,000 2,	428 3,072
M 2,750 ,989 13,621 ,000 2,	332 3,16
6. Understanding the general didactics of Mz 3,050 ,875 22,031 ,000 2,	//0 3,330
the EFS process M 3,041 ,858 17,354 ,000 2,	679 3,404
7. Understanding the functional anatomy Mz 2,675 1,022 16,546 ,000 2,	348 3,002
aspects of EFS M 2,875 ,991 14,201 ,000 2,	456 3,293
8. Understanding first aid health issues Mz 2,500 1,012 15,612 ,000 2,	176 2,823
M 2,500 ,978 12,523 ,000 2,	087 2,913
9. Understanding how to use different Mz 2,4750 1,109 14,113 ,000 2,	120 2,829
pedagogical strategies M 2,333 1,049 10,892 ,000 1,	890 2,776
10. Understanding the importance of Mz 3,200 ,911 22,204 ,000 2,	908 3,492
continuous professional development M 3,208 ,883 17,788 ,000 2, for the EFS teacher	835 3,582
11. Understanding the physiological Mz 2.750 1.080 16.102 .000 2.	404 3.095
aspects of EFS M 2.541 1.178 10.563 .000 2.	043 3.039
12. Understanding the psychological Mz 2,575 1,106 14,714 ,000 2,	221 2,929
aspects of EFS M 2.375 1.134 10.252 .000 1.	895 2.854
13. Understanding the theory of playing Mz 2,725 1,109 15,539 .000 2.	370 3.079
sports M 2.583 1.138 11.112 .000 2.	102 3.064
14. Understanding social circumstances in Mz 3.350 .802 26.410 .000 3.	093 3.606
EFS lessons M 2,916 1,017 14,037 ,000 2,	486 3,346
15. Understanding financial flow in EFS Mz 2,850 1,001 18,002 ,000 2,	529 3,170
M 2,625 ,969 13,262 ,000 2,	215 3,034
16. Understanding the biomechanical Mz 2,675 1,071 15,789 ,000 2,	332 3,017
aspects of EFS M 2.416 1.212 9.761 .000 1.	904 2.928
17. Understanding the influence of the Mz 2,450 1,153 13,432 .000 2.	081 2,818
media on EFS M 2.208 1.062 10.183 .000 1.	759 2.656
18. Understanding the cultural aspects of Mz 2,350 ,948 15,668 ,000 2,	046 2,653
EFS M 2.333 1.007 11.349 .000 1.	908 2.758
19. Understanding the philosophical Mz 2.125 1.113 12.067 .000 1.	768 2.48
aspects of EFS M 2.083 1.138 8.961 .000 1.	602 2.564
20. Understanding the social importance of Mz 2.825 1.106 16.143 .000 2.	471 3.179
EFS M 2.500 1.142 10.724 .000 2.	017 2.982

Mz- group mentees, M – group mentors

The most significant results of the mentors (Table 2) were recorded in items: 34 - Understanding social circumstances in EFS lessons with 3,125 points, item 30 -Understanding importance the of continuous professional development for EFS teacher and item 21 the -Understanding the methodical methods in teaching skills that are not part of the program with 3,125 points. Items that scored high were considered by mentors to define the professional competence profile of beginning teachers in the initial vocational training stage. The lowest results of the auditors were obtained in item 29 - Understanding the philosophical aspects of the SAI with 2,125, in item 38 -Understanding the cultural aspects of the EFS with 2.35 points.

In the research, the most significant results obtained by mentors at subscale 2 - Inter-trans-disciplinary competences in the self-assessment of the EFS-specific perception of competence questionnaire (Table 2) were recorded in item 30 -Understanding the importance of continuous professional development for the teacher of EFS with 3,208 points, item 24 - Understanding the methodical ways of teaching motor skills in the curriculum with 3,166 points. Item 39 _ Understanding the philosophical aspects of EFS and item 37 - Understanding the influence of the media on EFS had the lowest score of 2,083 points and 2,208 points respectively.

Table 3

Centralization of the results in study 3 - Self-assessment questionnaire of perception of
specific EFS competencies

Subscala	Groups	Х	ΔΧ	Σ	ΔΣ	α
1. Specialized teaching skills	Mentored group	5,98	0.34	59,87	3,41	,764
	Mentoring group	6,32		63,26		,860
2. Inter-trans-disciplinary skills Mentored gro		5,53	0,03	55,30	0,30	,804
	Mentoring group	5,50		55,00		,817

The analysis of the total scores for both competence subscales allows us to interpret the results from the perspective of the perceptual impact of the mentors and mentors on the professional competencies specific to physical education and sports. For subscale 1 of the survey, the total score achieved by the sample of mentors was 59.87 points lower by 3.41 points compared to the total score of the sample of mentors which was

63.26. In the case of sub-scale 2 on crossdisciplinary skills, the difference between the two samples was very small of only 3 points, which highlights the fact that both have similar perceptions of the importance of developing these skills in the initial training process (Table 3). The two subscales of the questionnaire for both samples had a good and very good internal consistency, Cronbach's Alpha values being between 0.764 and 0.860.

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Table 4

Amount of the total score for the Self-Assessment Questionnaire on the perception of professional competences in EFS

Sample	Σ total score	ΔΣ total score	
Mentored group 115,17		3 00	
Mentoring group	118,26	3,09	

The differences between the sums of the scores obtained in the self-assessment questionnaire of the perception of specific EFS competencies between the two samples of the preliminary study was 3.09 points, the group of mentors registered 115.17 points and the group of mentors 118.26 points (Table 4). The total cumulative value recorded by both samples is between 160-105 points according to the score of the questionnaire, which indicates that both samples have a very good perception of of development the level and manifestation of specific EFS skills in the initial teaching and professional activities.

4. Discussion

The results of our preliminary study contribute to expanding the knowledge of the field of physical education and sports and confirm the trends identified in previous studies on the importance of the mentoring process. Mentoring programs have been introduced to improve the professional experiences of teachers at different stages of their careers, mainly in the early stages, in the initial stage and consists in providing continuous and specific assistance for the professional development of teachers [11]. The motivations for starting and continuing the teaching career are very important, influenced being by а series of and institutional, financial, human personal factors. According to studies, the

decision to develop a teaching career depends on financial conditions, school infrastructure, school location, the harmony of the teaching staff, etc., but a determined role is played by the intrinsic motivations of each teacher [8], [12]. The didactic activity represents an activity of facilitating the interactions between all the factors involved in the school instructive-educational process. An important role in the teaching career is played by the quality and variety of professional experiences in the beginning period, which represent the foundations of a dynamic and efficient teaching career.

5. Conclusions

hypothesis specific the The to preliminary study was confirmed, namely the identification of the perception of mentors and mentors on the level of development of professional skills specific to physical education and sports can determine their awareness and optimization in the initial vocational training process (mentoring process). Regarding subscales 1 - Specialized teaching competencies, we consider that the differences in perception registered between the sample of mentors and the mentors are due to the level of experience and expertise in the teaching activity of physical education and school sports. The results at subscale 2 were approximately equal between the two research samples, reflecting a correct perception of inter- and trans-disciplinary competencies. The role of these competencies is major and contributes to completing the profile of professional competence of teachers with specialization in physical education and sports.

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