EVALUATION OF TEACHING PRACTICE BY STUDENTS OF TEACHER EDUCATION AT PAVOL JOZEF ŠAFÁRIK UNIVERSITY IN KOŠICE

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Abstract: The teaching practice of teacher education students is a means of their professional growth and a space for forming a comprehensive understanding of the process of institutionalized education and pupil training. Well-managed and implemented practice reflects the quality of future teacher preparation. The aim of this study is to analyze students' opinions on teaching practice in terms of key aspects that underpin its effectiveness. We used a self-designed questionnaire consisting of four sections of scaled items (respondents expressed their views on practice organization, preparedness to handle it, professional competencies, and practice conditions). The study involved 111 students of teacher education at Pavol Jozef Šafárik University in Košice (the criterion for inclusion in the study was the completion of all types of teaching practices). Based on paired comparisons of scores for the items in the first section, we identified a statistically significant differences in satisfaction with the organization of practices by teachers, psychologists, and subject didacticians, statistically significant differences in satisfaction with the scope of observations in the scole, and a statistically significant differences in their preparedness for continuous practice. Subjects, astatistically significant difference in students' preparedness for observation-pedagogical-psychological practice in selected subjects, statistically significant differences in their preparedness for continuous practice II in selected subjects, and statistically significant differences in their preparedness for continuous practice is astatistically significant difference in their preparedness for continuous practice at statistically significant differences in the preparedness for continuous practice is that statistically significant differences in their preparedness for continuous practice at the training school. The research findings suggest that teacher education statistica at the training school. The research findings suggest that teach

Keywords: student, teacher, teaching practice, university.

1 Introduction

Pedagogical practice is one of the fundamental constitutive elements involved in preparing future teachers for educational activities, shaping their approach to teaching and perspective on expertise. The practice of teaching students in real school conditions is not merely a straightforward application of acquired knowledge in a selected educational setting. It serves as a platform for testing didactic theories, developing resulting teaching strategies, and reassessing the effectiveness of the applied teacher education model.

The conclusion of Rovňanová's (2013) study is that a teacher's functional literacy depends not only on the thoughtful organization of undergraduate and postgraduate training. Regardless of how we try to prepare teaching graduates, the final transformation into an expert teacher lies in the hands of real school practice (including their own activity). The results of the study by Ozdemir and Yildirim (2012) indicate that teaching practice courses support the professional development of teaching students, especially in gaining pedagogical experience. They have the opportunity to practice the skills acquired during their bachelor's studies in a school environment and to get to

gain deeper insight into the teaching profession. Research by Černá et al. (2017) demonstrated that the clinical year impacted the professional progress of teaching students in all monitored variables (focus on students, growth in flexibility, long-term planning skills, and anticipation). Danek (2019) affirms that pedagogical practice is associated not only with the motivation of teaching students to study but is also crucial for their retention in the profession.

Kontírová (2010) mentions the following basic functions of pedagogical practice:

- Integrative Pedagogical practice serves to overcome the isolation of knowledge structures in the disciplines of higher education preparation and to support a more comprehensive understanding of educational phenomena and processes.
- Orientational Pedagogical practice familiarizes students with the specific school environment and its organization (types of schools, educational programs, various classes).
- Educational Pedagogical practice complements and enriches the theoretical preparation of students and creates conditions for its concrete and creative use in the educational process.
- Self-reflective Pedagogical practice forms the foundation for the development of pedagogical thinking in teaching students, as they need to be able to justify their teaching methods.
- Feedback Pedagogical practice is a tool for aligning theoretical instruction with the latest scientific knowledge and the needs of the school.
- Stimulative Pedagogical practice contributes to shaping the student's attitude toward the teaching profession itself.
- Socialization Pedagogical practice shows teaching students how to strengthen appropriate social bonds among students and the teaching staff.

The teaching practice of students in elementary and secondary schools usually has a gradational character. At faculties of education, a 4-level model of pedagogical practice is typically used. Novocký et al. (2021), following Kosová, Tomengová et al. (2015), describe the following types of practices:

- Observation-Pedagogical-Psychological Practice (MPPa) Its primary purpose is to familiarize students with the real school environment, reflect on and understand the characteristics of elementary and secondary schools, confront the theoretical aspects of university preparation with educational reality, and prepare for assistant activities and their own teaching outputs. The key activity of this practice is pedagogical observation focused on the activities and behavior of students and teachers in the context of educational and psychological phenomena.
- Interim Practice (MPPb) Its main purpose is to observe the school's socio-cultural environment, the internal and external conditions of teaching and learning in the specialized subjects, observe interactions between teaching participants, and further confront the theoretical and practical aspects of university preparation with educational reality. The key activity of this practice is pedagogical observation focused on psychodidactic phenomena in the subjects of specialization (also mastering one independent output).
- Continuous Practice I (MPPc) Its primary purpose is to develop the knowledge gained through observation during previous pedagogical practices and to form students' professional skills through direct activities in lessons. The key activity of this practice is independent teaching outputs in specialized subjects (application of didactic tools, implementation of their own educational project designed for teaching a given topic).

 Continuous Practice II (MPPd) – Its main purpose is to verify theoretical knowledge and deepen didactic competencies in the educational environment. The key activity of this practice is independent teaching outputs in specialized subjects (the student conducts the teaching process continuously over a specified period).

Uçar (2012) states that the learning process plays a crucial role in pedagogical practice, providing teacher candidates with a space for professional development. The key elements determining the quality of the practice are the mentor, cooperating teacher, teaching student, and the practice school itself. The mentioned author conducted empirical research, choosing to conduct interviews with multiple groups of participants (school administrators, mentors, and teaching students). The analyzed data from the research participants point to potential reasons why pedagogical practice does not achieve its set goals. These include issues related to theoretical knowledge, the timing and duration of practice, its organization, as well as communication and regulations. One of the cardinal recommendations arising from the research by Tomengová et al. (2017) for undergraduate teacher education is the adjustment of the balance between theoretical and practical training, focusing on content-oriented and process-oriented knowledge by increasing the share of practice for future teachers.

Our first research objective was to determine how satisfied teacher training students are with the management of teaching practices and the number of observations or independent outputs concerning the described practices. Additionally, we were interested in the level of satisfaction they attribute to achieving the objectives of each practice.

A sequentially structured practice, where a teaching student progresses from mastering elementary pedagogical-didactic activities to managing a teaching unit, has its justification, which arises from fulfilling the partial objectives of pedagogical practice. Sirotová (2015) describes these in more detail, operationalizing the main purpose of teaching students' practice:

- Orienting oneself in the basic pedagogical documentation of the school and classroom.
- Using pedagogical agendas in the teaching process during pedagogical practice.
- Getting to know the school environment (conditions for teaching in classrooms).
- Understanding the students in the classroom (knowing how to work with them based on their individual characteristics).
- Planning lessons (formulating and setting educational goals, selecting methods, creating teaching aids, etc.).
- Independently and creatively implementing the educational process.
- Developing one's own teaching concept (or teaching style).

In the Slovak context, Rovňanová and Nemcová (2017) evaluated the connection between the theoretical and practical preparation of teaching students. The results of their research specifically point to significant dissatisfaction among future teachers regarding the development of specific professional activities during their studies (negative assessments predominated in 25 of these activities). Petrová and Duchovičová (2013), in a reflection-oriented study focused on university teacher training in the context of transformational processes, summarize, based on research conducted among teaching graduates at two universities in Slovakia, that future teachers are dissatisfied with the highly academic nature of their preparation, which is disconnected from educational reality, their preparedness to work with students with special educational needs (health-disadvantaged, problematic), and the lack of teaching skills (creating thematic plans, innovative teaching aids, classroom work planning).

Kyriacou and Stephens (1999) identified nine main areas of concern for teaching students during their practice. Trainees worry about not being seen as real teachers, managing disruptive behavior in the classroom, taking on the role of disciplinarian, whether they will teach adequately, proper planning, teaching sensitive topics, handling a heavy workload, the lack of teaching experience, and being the subject of evaluation themselves. On the other hand, they classify the categories of students' successes supported by practice as taking on responsibility and developing self-confidence.

Considering these facts, our second research objective was to investigate how teaching students are prepared to handle practice from the perspective of key subjects that are part of their university education. In this context, we were interested in how they evaluate their performance during practice and how they perceive its necessity in their practical professional training.

Orosová and Boberová (2016) propose viewing the teaching practice of students as a form of experiential learning through which trainees develop their professional and personal dispositions. Toom et al. (2015), in their study of patterns of reflective episodes among teaching students, demonstrated that students are capable of applying reflection beyond practical problems in teaching and can formulate various professional questions arising from discrepancies in practice. Thoughtful integration of theory and practice in teacher training can contribute to the development of 21st-century competencies, as evidenced by the conclusions of the study by Niu et al. (2021).

Given the current discourse on the professionalization of the teacher's educational work, it is appropriate to discuss professional competencies. These concern all teachers, regardless of career level and years of experience (including teaching students as novice teachers). The structure and content of the Professional Standard for Lower and Upper Secondary Education Teachers (2017) indicate that a teacher should effectively demonstrate activities related to diagnostic, professional-didactic, and reflective competencies. First, they should recognize and differentiate the biological, psychological, social, and material circumstances of education (the abilities of students and their own capabilities). Second, they should master the content and didactics of their subject, plan, implement, and evaluate the course and results of education (eliminating unintended elements from teaching and avoiding unwarranted spontaneity). Third, they should strive for self-development (which requires identifying with the professional role and conducting professional reflection, serving as a basis for removing stereotypes in teaching and introducing innovations).

Gabrhelová et al. (2020), in the conclusion of their study, propose suggestions for improving teaching practice. Alongside minimizing schedule changes during its course, it is crucial to build awareness of practice schools as cooperating organizations with the academic environment and actively work with practice teachers through informational meetings, seminars, and workshops. Practice teachers can facilitate the learning process for teaching students through practical experiences and provide them with suitable models for working with students (Baeten & Simons, 2016; Jaspers et al., 2022). As Northfield and Gunstone (1997) point out, teacher educators (i.e., faculty teachers covering the common core and subject didactics) should maintain a close connection with school practice. McIntyre and Hagger (1992) emphasize that when developing teaching practices, the value of collegiality should not be underestimated.

These facts served as the basis for defining two additional research objectives. First, we investigated the level of professional competencies of teaching students, and then we examined how they would evaluate the conditions of pedagogical practice at training schools and the approach of the practice teacher.

2 Methodology

To map students' opinions on the course and implementation of pedagogical practice, we used a self-designed questionnaire consisting of four sections. In the first section, respondents answered items related to their satisfaction with the organization

of the teaching practice, the scope of observations, independent outputs during the practice, and the fulfillment of its purpose and objectives (5 - very satisfied, 4 - satisfied, 3 - neutral, 2 dissatisfied, 1 - very dissatisfied; MPPa - Observation-Pedagogical-Psychological Practice, MPPb - Interim Teaching Practice, MPPc - Continuous Teaching Practice I, MPPd -Continuous Teaching Practice II). In the second section, respondents answered items concerning their preparedness for different types of pedagogical practices from a professional perspective in relevant subjects (5 - excellent, 4 - very good, 3 good, 2 - sufficient, 1 - insufficient). In the last two items of this section, they were to express their satisfaction with themselves and their performance during the practices (5 - very satisfied, 4 satisfied, 3 – neutral, 2 – dissatisfied, 1 – very dissatisfied, N – I have not yet completed it; MPPb - Interim Teaching Practice, MPPc - Continuous Teaching Practice I, MPPd - Continuous Teaching Practice II) and to what extent these practices are necessary in their practical professional preparation (5 - very necessary, 4 - necessary, 3 - neutral, 2 - unnecessary, 1 completely unnecessary; MPPa - Observation-Pedagogical-Psychological Practice, MPPb - Interim Teaching Practice, MPPc - Continuous Teaching Practice I, MPPd - Continuous Teaching Practice II). In the third section, respondents answered items regarding the level of their professional competencies as beginning teachers (5 - excellent, 4 - very good, 3 - good, 2 sufficient, 1 - insufficient). In the last section, respondents answered items concerning the assessment of the conditions of the teaching practice at the training school and the approach of the mentor teacher (5 - excellent, 4 - very good, 3 - good, 2 sufficient, 1 - insufficient). The content evaluation of the tool was carried out by didactics experts.

2.1 Research sample

The research sample was assembled using an available selection method. Students of teacher training at UPJŠ were invited to fill out an online questionnaire after completing the Continuous Teaching Practice II (MPPd). A total of 121 respondents participated in the research; however, after removing those who had not completed this type of practice (e.g., had only completed the first two types of practice) and those who responded to the questionnaire items by choosing extreme alternatives (1 or 5), we worked with a research sample of 111 respondents. Data collection took place between 2021 and 2023.

2.2 Data Analysis

To evaluate statistically significant differences between variables, we used non-parametric tests (Friedman test, Dunn-Bonferroni post hoc test, and Wilcoxon test). The level of significance was 0.05. The Likert scale essentially has the characteristics of an ordinal variable (a respondent's answer to a single item in the questionnaire, formatted, for example, with 5 levels). If such items do not cover a dimension of the tool where a summary score for respondents would be calculated, we should refrain from claiming that it is an interval variable (see Kubiatko, 2016 for further details). Descriptive statistics used included mean rank, arithmetic mean (AM), standard deviation (SD), median (Me), mode (Mod), minimum (Min), and maximum (Max) measurement values. Nevertheless, when interpreting the results of the research, we used the arithmetic mean (to compare the higher or lower scores achieved by the respondents, but without determining the difference between them - how much better they were). We also consider the value of the mean rank. Data processing was carried out using SPSS 27.0.1.0.

2.3 Research Questions

Based on the theory and research objectives, we formulated the following research questions:

RQ1: Is there a statistically significant difference in student satisfaction with the organization of teaching practices provided by the Department of Pedagogy concerning pairwise comparisons?

RQ2: Is there a statistically significant difference in student satisfaction with the organization of teaching practices by teachers, psychologists, and subject didactics experts concerning pairwise comparisons?

RQ3: Is there a statistically significant difference in student satisfaction with the scope of observations in teaching practices concerning pairwise comparisons?

RQ4: Is there a statistically significant difference in student satisfaction with the scope of independent outputs in teaching practices concerning pairwise comparisons?

RQ5: Is there a statistically significant difference in student satisfaction with the fulfilment of the mission and objectives of teaching practices concerning pairwise comparisons?

RQ6: Is there a statistically significant difference in students' preparedness for the Observation-Pedagogical-Psychological Practice in terms of selected subjects?

RQ7: Is there a statistically significant difference in students' preparedness for the Interim Teaching Practice in terms of selected subjects concerning pairwise comparisons?

RQ8: Is there a statistically significant difference in students' preparedness for Continuous Teaching Practice I in terms of selected subjects concerning pairwise comparisons?

RQ9: Is there a statistically significant difference in students' preparedness for Continuous Teaching Practice II in terms of selected subjects concerning pairwise comparisons?

RQ10: Is there a statistically significant difference in student satisfaction with their performance as a teacher during previous teaching practices concerning pairwise comparisons?

RQ11: Is there a statistically significant difference in the perceived necessity of teaching practices for students in the practical professional preparation of future teachers concerning pairwise comparisons?

RQ12: Is there a statistically significant difference in the level of students' professional competencies in the area of "student" concerning pairwise comparisons?

RQ13: Is there a statistically significant difference in the level of students' professional competencies in the area of "educational process" concerning pairwise comparisons?

RQ14: Is there a statistically significant difference in the level of students' professional competencies in the area of "professional development"?

RQ15: Is there a statistically significant difference in students' assessment of the conditions of teaching practice at the training school concerning pairwise comparisons?

RQ16: Is there a statistically significant difference in the mentor teacher's approach to the student during teaching practice concerning pairwise comparisons?

3 Research results

Table 1 shows that there is a statistically significant difference (Friedman test = 33.469; p = 0.000) in student satisfaction with the organization of teaching practices by the Department of Pedagogy (communication, problem-solving, supporting materials). Based on pairwise comparisons, a statistically significant difference was found between MPPd and MPPa (Dunn-Bonferroni post hoc test = 3.015; p = 0.015). Respondents scored higher for MPPa (AM = 4.47) and lower for MPPd (AM = 4.08).

Table 2 shows that there is a statistically significant difference (Friedman test = 45.888; p = 0.000) in student satisfaction with the organization of teaching practices by teachers, psychologists, and subject didactics experts (supporting material for observations, supporting material for the preparation of outputs). Based on pairwise comparisons, a statistically significant difference was found between MPPd and MPPb (Dunn-Bonferroni post hoc test = 2.885; p = 0.023) and between MPPd and MPPd (Dunn-Bonferroni post hoc test = 3.457; p = 0.003). In the first case, respondents scored higher for MPPb (AM = 4.24) and lower for MPPd (AM = 4.29) and lower for MPPd (AM = 3.84).

Table 3 shows that there is a statistically significant difference (Friedman test = 55.994; p = 0.000) in student satisfaction with

the scope (number) of observations in teaching practices. Based on pairwise comparisons, a statistically significant difference was found between MPPd and MPPc (Dunn-Bonferroni post hoc test = 3.171; p = 0.009), between MPPd and MPPb (Dunn-Bonferroni post hoc test = 3.353; p = 0.005), and between MPPd and MPPa (Dunn-Bonferroni post hoc test = 5.121; p = 0.000). In the first case, respondents scored higher for MPPc (AM = 3.69) and lower for MPPd (AM = 3.74) and lower for MPPd (AM = 3.19). In the third case, they scored higher for MPPa (AM = 4.04) and lower for MPPd (AM = 3.19).

Table 4 shows that there is a statistically significant difference (Friedman test = 20.016; p = 0.000) in student satisfaction with the scope of independent outputs in teaching practices. Based on pairwise comparisons, a statistically significant difference was found between MPPd and MPPc (Dunn-Bonferroni post hoc test = 3.356; p = 0.002). Respondents scored higher for MPPc (AM = 3.58) and lower for MPPd (AM = 3.09).

The data presented in Table 5 indicate that there is no statistically significant difference (Friedman test = 5.726; p = 0.126) in student satisfaction with the fulfillment of the mission and objectives of teaching practices. Respondents scored similarly across all items.

Table 6 shows that there is a statistically significant difference (Wilcoxon test = -2.476; p = 0.013) in students' preparedness for the observation-pedagogical-psychological practice from selected subjects. Respondents scored higher for pedagogy (AM = 3.77) and lower for psychology (AM = 3.65).

Table 7 indicates that there is a statistically significant difference (Friedman test = 55.389; p = 0.000) in students' preparedness for the interim teaching practice from the perspective of selected subjects. Based on pairwise comparisons, a statistically significant difference was found between subject didactics of the 1st specialization subject and specialized subjects of the 1st specialization subject (Dunn-Bonferroni post hoc test = -3.139; p = 0.025), between subject didactics of the 1st specialization subject and specialized subjects of the 2nd specialization subject (Dunn-Bonferroni post hoc test = -3.516; p = 0.007), and between subject didactics of the 2nd specialization subject and specialized subjects of the 2nd specialization subject (Dunn-Bonferroni post hoc test = -3.229; p = 0.019). In the first case, respondents scored higher for specialized subjects of the 1st specialization subject (AM = 4.02) and lower for subject didactics of the 1st specialization subject (AM = 3.60). In the second case, they scored higher for specialized subjects of the 2nd specialization subject (AM = 4.06) and lower for subject didactics of the 1st specialization subject (AM = 3.60). In the third case, they scored higher for specialized subjects of the 2nd specialization subject (AM = 4.06) and lower for subject didactics of the 2nd specialization subject (AM = 3.61).

Although Table 8 indicates that there is a statistically significant difference (Friedman test = 27.537; p = 0.000) in students' preparedness for Continuous Teaching Practice I from the perspective of selected subjects, the pairwise comparisons using the Bonferroni procedure did not reveal a statistically significant difference between the subjects. Respondents scored similarly across all subjects.

Table 9 indicates that there is a statistically significant difference (Friedman test = 27.935; p = 0.000) in students' preparedness for Continuous Teaching Practice II from the perspective of selected subjects. Based on pairwise comparisons, a statistically significant difference was found between psychology and specialized subjects of the 2nd specialization subject (Dunn-Bonferroni post hoc test = -2.942; p = 0.049). Respondents scored higher for specialized subjects of the 2nd specialization subject (AM = 4.12) and lower for psychology (AM = 3.73).

Although Table 10 indicates that there is a statistically significant difference (Friedman test = 11.575; p = 0.003) in student satisfaction with their performance as a teacher during

previous teaching practices, the pairwise comparisons using the Bonferroni procedure did not reveal a statistically significant difference between the practices. Respondents scored similarly across all practices.

Table 11 indicates that there is a statistically significant difference (Friedman test = 100.813; p = 0.000) in the perceived necessity of teaching practices for students in the practical professional preparation of future teachers. Based on pairwise comparisons, a statistically significant difference was found between MPPa and MPPd (Dunn-Bonferroni post hoc test = -4.939; p = 0.000), between MPPa and MPPc (Dunn-Bonferroni post hoc test = -5.563; p = 0.000), between MPPb and MPPd (Dunn-Bonferroni post hoc test = -4.211; p = 0.000), and between MPPb and MPPc (Dunn-Bonferroni post hoc test = -4.835; p = 0.000). In the first case, respondents scored higher for MPPd (AM = 4.69) and lower for MPPa (AM = 4.07). In the second case, they scored higher for MPPc (AM = 4.77) and lower for MPPa (AM = 4.07). In the third case, they scored higher for MPPd (AM = 4.69) and lower for MPPb (AM = 4.19). In the fourth case, they scored higher for MPPc (AM = 4.77) and lower for MPPb (AM = 4.19).

The data presented in Table 12 indicate that there is no statistically significant difference (Friedman test = 3.754; p = 0.153) in the level of students' professional competencies in the area of "student". Respondents scored similarly in their assessment of the level of their professional competencies within this area.

Although Table 13 indicates that there is a statistically significant difference (Friedman test = 9.867; p = 0.020) in the level of students' professional competencies in the area of "educational process", the pairwise comparisons using the Bonferroni procedure did not reveal a statistically significant difference between the professional competencies. Respondents scored similarly across all competencies.

Table 14 indicates that there is a statistically significant difference (Wilcoxon test = -2.884; p = 0.004) in the level of students' professional competencies in the area of "professional development". Respondents scored higher for the competency of identification with the professional role and the school (AM = 3.75) and lower for the competency of planning and implementing their professional growth and self-development (AM = 3.56).

Table 15 indicates that there is a statistically significant difference (Friedman test = 50.298; p = 0.000) in the assessment of teaching practice conditions by students at the training school. Based on pairwise comparisons, a statistically significant difference was found between opportunities to participate in other school activities and the equipment of classrooms and laboratories (Dunn-Bonferroni post hoc test = 3.429; p = 0.009), between opportunities to participate in other school activities and the timetable (Dunn-Bonferroni post hoc test = 3.919; p = 0.001), between opportunities to participate in other school activities and material-didactic resources for teaching curriculum topics (Dunn-Bonferroni post hoc test = 3.939; p = 0.001), between opportunities to participate in other school activities and the composition of the class (Dunn-Bonferroni post hoc test = 3.978; p = 0.001), and between opportunities to participate in other school activities and the space for the trainee (Dunn-Bonferroni post hoc test = 4.605; p = 0.000). Respondents scored the lowest for opportunities to participate in other school activities (AM = 3.42).

Although Table 16 indicates that there is a statistically significant difference (Friedman test = 33.606; p = 0.000) in the mentor teacher's approach during teaching practice as assessed by students, the pairwise comparisons using the Bonferroni procedure did not reveal a statistically significant difference between the components of this approach. Respondents scored similarly across all components.

Type of	Ν	Mean	AM	SD	Me	Mod	Min	Max	Friedman Test	p-value
Practice		rank								
MPPa	111	2.70	4.47	0.60	5.00	5.00	3.00	5.00	33.469	0.000
MPPb	111	2.63	4.40	0.64	4.00	5.00	3.00	5.00		
MPPc	111	2.49	4.31	0.84	5.00	5.00	2.00	5.00		
MPPd	111	2.18	4.08	0.90	4.00	5.00	2.00	5.00		
		Pai	rwise (Compai	risons				Dunn-Bonferroni Post Hoc Test	Adjusted Significance
			MPPd	– MPP	°c				1.794	0.437
			MPPd	-MPP	'b				2.573	0.060
			MPPd	– MPP	' a				3.015	0.015
			MPPc	-MPP	'b				0.780	1.000
			MPPc	-MPP	a				1.222	1.000
			MPPb	- MPP	' a			0.442	1.000	

Table 1: Satisfaction with the Organization of Teaching Practices by the Department of Pedagogy (Communication, Problem Solving, Supporting Materials)

Table 2: Satisfaction with the Organization of Teaching Practices by Teachers, Psychologists, and Subject Didactics Experts (Supporting Material for Observations, Supporting Material for Outputs)

Type of	Ν	Mean	AM	SD	Me	Mod	Min	Max	Friedman Test	p-value
Practice		rank								
MPPa	111	2.76	4.29	0.78	4.00	4.00	1.00	5.00	45.888	0.000
MPPb	111	2.66	4.24	0.74	4.00	4.00	2.00	5.00		
MPPc	MPPc 111 2.41 4.05 0.91 4.00 4.00 2.00 5.0									
MPPd	111	2.16	3.84	0.96	4.00	4.00	2.00	5.00		
		Pai	rwise (Compai	risons				Dunn-Bonferroni Post Hoc Test	Adjusted Significance
			MPPd	– MPF	°c				1.456	0.873
			MPPd	– MPP	'b				2.885	0.023
			MPPd	– MPF	' a				3.457	0.003
			MPPc	- MPP	'b				1.430	0.917
			MPPc	– MPP	'a				2.002	0.272
			MPPb	- MPF	a				0.572	1.000

Table 3: Satisfaction with the Scope (Number) of Observations in Teaching Practices

Type of	Ν	Mean	AM	SD	Me	Mod	Min	Max	Friedman Test	p-value
Practice		rank								
MPPa	111	2.88	4.04	1.02	4.00	4.00	1.00	5.00	55.994	0.000
MPPb	111	2.58	3.74	1.09	4.00	4.00	1.00	5.00		
MPPc	111	2.55	3.69	1.04	4.00	5.00				
MPPd	111	2.00	3.19	1.17	3.00	5.00				
	Pa	airwise (Compa	risons	5				Dunn-Bonferroni Post Hoc Test	Adjusted Significance
		MPPd	I - MP	Pc					3.171	0.009
		MPPd	l – MPI	Pb					3.353	0.005
		MPPd	l – MP	Pa					5.121	0.000
		MPPc	- MPI	Pb					0.182	1.000
		MPPc	- MP	Pa		1.950	0.307			
		MPPt) – MP	Pa		1.768	0.463			

Table 4: Satisfaction with the Scope (Number) of Independent Outputs in Teaching Practices

Type of Practice	N	Mean rank	AM	SD	Me	Mod	Min	Max	Friedman Test	p-value
MPPb	111	1.98	3.25	1.33	4.00	4.00	1.00	5.00	20.016	0.000
MPPc	111	2.23	3.58	1.05	4.00	4.00	1.00	5.00		
MPPd	111	1.78	3.09	1.18	3.00	4.00	1.00	5.00		
		Pa	irwise (Compar	isons				Dunn-Bonferroni Post Hoc Test	Adjusted Significance
			MPPd	l – MPP	b				1.477	0.419
			MPPd	l – MPP	с			3.356	0.002	
			MPPb	- MPP	c			-1.879	0.181	

Type of Practice	N	Mean rank	AM	SD	Me	Mod	Min	Max	Friedman Test	p-value
MPPa	111	2.54	4.17	0.72	4.00	4.00	2.00	5.00	5.726	0.126
MPPb	111	2.44	4.05	0.86	4.00	4.00	1.00	5.00		
MPPc	111	2.63	4.23	0.83	4.00	5.00	2.00	5.00		
MPPd	111	2.40	4.06	0.87	4.00	5.00	2.00	5.00		

Table 5: Satisfaction with the Fulfillment of the Mission and Objectives of Teaching Practices

Table 6: Preparedness for Observation-Pedagogical-Psychological Practice from the Perspective of Selected Subjects

Subject	Ν	AM	SD	Me	Mod	Min	Max	Wilcoxon Test (Z)	p-value
pedagogy	111	3.77	1.00	4.00	4.00	1.00	5.00	-2.476	0.013
psychology	111	3.65	1.04	4.00	4.00	1.00	5.00		

Table 7: Preparedness for Interim Teaching Practice from the Perspective of Selected Subjects

Subject	Ν	Mean	AM	Max	Friedman Test	p-value				
1	111	rank	2.70	0.01	1.00	1.00	1.00	5.00	55 200	0.000
pedagogy	111	3.50	3.78	0.91	4.00	4.00	1.00	5.00	55.389	0.000
psychology	111	3.27	3.68	0.99	4.00	4.00	1.00	5.00		
subject didactics	111	3.12	3.60	0.99	4.00	4.00	1.00	5.00		
(1. AP)	111	2.10	2.61	1.05	4.00	1.00	1.00	5.00		
subject didactics (2. AP)	111	3.19	3.61	1.05	4.00	4.00	1.00	5.00		
specialized subjects	111	3.91	4.02	5.00						
(1. AP)	111	5.91	4.02	5.00						
specialized subjects	111	4.00	4.06	5.00						
(2. AP)										
· · · · ·	P	airwise	Dunn-Bonferroni	Adjusted Significance						
			Post Hoc Test							
subject didactics of	the 1st s	pecializat	ion sub	ject – s	ubject o	lidactics	s of the 2	2nd	-0.287	1.000
		specializa	ation su	bject						
subject dida									0.610	1.000
subject did									1.489	1.000
subject didactics of th					ecialize	ed subjec	cts of the	e 1st	-3.139	0.025
		specializa								
subject didactics of th					ecialize	d subjec	ts of the	2nd	-3.516	0.007
		specializa								
subject didad									0.323	1.000
subject dida						1 0	0,		1.202	1.000
subject didactics of th	1			1	pecialize	ed subje	cts of th	e 1st	-2.852	0.065
1 1. 1		specializa				1 1 .	. 6.1	2 1	2.220	0.010
subject didactics of the		specializations	5		ecialize	ed subjec	cts of the	e 2nd	-3.229	0.019
	р	sycholog	y – ped	agogy					0.879	1.000
psychology –	specializ	zed subje	cts of th	e 1st s	pecializ	ation su	bject		-2.529	0.171
psychology –	specializ	ed subjec		-2.906	0.055					
pedagogy – s	specializ	ed subjec	-1.650	1.000						
pedagogy – s	pecialize	ed subject	-2.027	0.640						
specialized subjects of		L	-0.377	1.000						
		specializa	ation su	bject						

Table 8: Preparedness for Continuous Teaching Practice I from the Perspective of Selected Subjects

Subject	Ν	Mean	AM	SD	Me	Mod	Min	Max	Friedman Test	p-value
		rank								
pedagogy	111	3.43	3.77	0.95	4.00	4.00	1.00	5.00	27.537	0.000
psychology	111	3.22	3.68	1.00	4.00	4.00	1.00	5.00		
subject didactics	111	3.29	3.73	0.93	4.00	4.00	1.00	5.00		
(1. AP)										
subject didactics	111	3.44	3.76	1.00	4.00	4.00	1.00	5.00		
(2. AP)										
specialized subjects	111	3.76	3.97	0.93	4.00	5.00	2.00	5.00		
(1. AP)										
specialized subjects	111	3.87	4.02	0.93	4.00	4.00	1.00	5.00		
(2. AP)										
		Pairwise	Comp	arison	s				Dunn-Bonferroni	Adjusted Significance
									Post Hoc Test	
psycholog	y – subje	ect didacti	cs of th	ne 1st sj	pecializ	ation sub	ject		-0.269	1.000
		psycholo		0.825	1.000					
psychology	v – subje	ct didacti	-0.861	1.000						
psychology	– specia	lized subj	-2.135	0.492						

psychology – specialized subjects of the 2nd specialization subject	-2.583	0.147
subject didactics of the 1st specialization subject – pedagogy	0.556	1.000
subject didactics of the 1st specialization subject – subject didactics of the 2nd specialization subject	-0.592	1.000
subject didactics of the 1st specialization subject – specialized subjects of the 1st specialization subject	-1.865	0.932
subject didactics of the 1st specialization subject – specialized subjects of the 2nd specialization subject	-2.314	0.310
pedagogy – subject didactics of the 2nd specialization subject	-0.036	1.000
pedagogy – specialized subjects of the 1st specialization subject	-1.309	1.000
pedagogy – specialized subjects of the 2nd specialization subject	-1.758	1.000
subject didactics of the 2nd specialization subject – specialized subjects of the 1st specialization subject	-1.274	1.000
subject didactics of the 2nd specialization subject – specialized subjects of the 2nd specialization subject	-1.722	1.000
specialized subjects of the 1st specialization subject – specialized subjects of the 2nd specialization subject	-0.448	1.000

Table 9: Preparedness for Continuous Teaching Practice II from the Perspective of Selected Subjects

Subject	N	Mean rank	AM	SD	Me	Mod	Min	Max	Friedman Test	p-value
pedagogy	111	3.39	3.86	0.96	4.00	4.00	1.00	5.00	27.935	0.000
psychology	111	3.11	3.73	0.99	4.00	4.00	1.00	5.00		
subject didactics (1. AP)	111	3.38	3.86	0.96	4.00	4.00	1.00	5.00		
subject didactics (2. AP)	111	3.55	3.92	0.99	4.00	4.00	1.00	5.00		
specialized subjects (1. AP)	111	3.72	4.05	5.00						
specialized subjects (2. AP)	111	3.85	4.12	5.00						
	•	Pairwise	Dunn-Bonferroni Post Hoc Test	Adjusted Significance						
psychology	y – subj	ect didact	ics of th	ne 1st s	pecializ	ation sub	ject		-1.058	1.000
		psycholo	ogy – pe	edagogy	y		2		1.112	1.000
psychology	– subje					ation sub	oject		-1.722	1.000
psychology	 specia 	lized subj	ects of	the 1st	special	ization su	ıbject		-2.422	0.232
psychology -	- specia	lized subj	ects of	the 2nd	special	ization s	ubject		-2.942	0.049
subject di	dactics	of the 1st	special	ization	subject	– pedago	ogy		0.054	1.000
subject didactics of	f the 1st	specializ speciali		5	5	t didactic	s of the	2nd	-0.664	1.000
subject didactics of	the 1st s	specializa speciali			speciali	zed subje	cts of th	ie 1st	-1.363	1.000
subject didactics of	the 1st s	pecializat speciali		5	pecializ	ed subje	cts of th	e 2nd	-1.883	0.895
pedagogy	– subjec	t didactic	s of the	e 2nd sp	oecializa	ation sub	ject		-0.610	1.000
pedagogy –									-1.309	1.000
pedagogy –	speciali	zed subje	cts of t	he 2nd	speciali	zation su	bject		-1.830	1.000
subject didactics of	the 2nd	specializa speciali	ne 1st	-0.700	1.000					
subject didactics of t	he 2nd s	specializa speciali	e 2nd	-1.220	1.000					
specialized subjects of	f the 1st		the 2nd	-0.520	1.000					

Table 10: Student Satisfaction with Their Performance as a Teacher During Previous Teaching Practices

Type of	Ν	Mean	AM	SD	Me	Mod	Min	Max	Friedman Test	p-value
Practice		rank								
MPPb	111	1.85	3.87	0.79	4.00	4.00	1.00	5.00	11.575	0.003
MPPc	111	1.98	3.97	0.92	4.00	4.00	1.00	5.00		
MPPd	111	2.17	4.08	0.75	4.00	4.00	2.00	5.00		
		Pa	irwise	Compa	risons				Dunn-Bonferroni Post Hoc Test	Adjusted Significance
			MPPt	o – MPI	Pc				-0.940	1.000
			MPPt	o – MPI	Pd				-2.383	0.052
			MPPo	c – MPI	Pd				-1.443	0.447

Type of	Ν	Mean	AM	SD	Me	Mod	Min	Max	Friedman Test	p-value
Practice		rank								
MPPa	111	2.01	4.07	0.93	4.00	4.00	1.00	5.00	100.813	0.000
MPPb	111	2.14	4.19	0.81	4.00	4.00	2.00	5.00		
MPPc	111	2.98	4.77	0.47	5.00	5.00	3.00	5.00		
MPPd	111	2.87	4.69	0.61	5.00	5.00	2.00	5.00		
		Pa	irwise	Comp	arisons	5			Dunn-Bonferroni Post Hoc Test	Adjusted Significance
			MPP	a – MF	Pb				-0.728	1.000
			MPP	a – MF	Pd				-4.939	0.000
			MPP	'a – MF	PPc				-5.563	0.000
			MPP	b – MF	PPd				-4.211	0.000
			MPP	b – MF	PPc				-4.835	0.000
			MPP	d – MF	PPc				0.624	1.000

Table 11: Necessity of Teaching Practices in the Practical Professional Preparation of Future Teachers

Table 12: Level of Students' Professional Competencies in the Area of "Student"

Professional competencies	N	Mean rank	AM	SD	Me	Mod	Min	Max	Friedman Test	p-value
Identification of the developmental and individual characteristics of the student	111	2.08	3.46	0.97	4.00	4.00	1.00	5.00	3.754	0.153
Identification of psychological and social factors in student learning	111	1.98	3.37	1.01	3.00	3.00	1.00	5.00		
Identification of the socio-cultural context of student development	111	1.94	3.35	0.97	3.00	3.00	1.00	5.00		

Professional competencies	Ν	Mean rank	AM	SD	Me	Mod	Min	Max	Friedman Test	p-value
Mastery of the content and didactics of teaching subjects	111	2.37	3.74	0.87	4.00	4.00	1.00	5.00	9.867	0.020
Planning and designing instruction	111	2.47	3.79	0.85	4.00	4.00	1.00	5.00		
Implementation of teaching	111	2.72	3.95	0.76	4.00	4.00	1.00	5.00		
Assessment of the process and outcomes of teaching and student learning	111	2.44	3.77	0.82	4.00	4.00	1.00	5.00		
	Pairv	vise Com	parisor	is					Dunn-Bonferroni Post Hoc Test	Adjusted Significance
Mastery of the content and didad outcome		f teaching aching ar				nt of the	proces	s and	-0.416	1.000
Mastery of the content and didaction	cs of t	eaching s	ubjects	– Planr	ing and	d design	ing ins	truction	-0.572	1.000
Mastery of the content and did	lactics	of teachi	ng subj	ects – I	mplem	entation	of teac	hing	-2.028	0.256
Assessment of the process and	0.156	1.000								
Assessment of the process and o	1.612	0.642								
Planning and desig		-1.456	0.873							

Table 14: Level of Students' Professional Competencies in the Area of "Professional Development"

Professional competencies	Ν	AM	SD	Me	Mod	Min	Max	Wilcoxon test (Z)	p-value
Planning and implementing one's	111	3.56	0.87	4.00	4.00	1.00	5.00	-2.884	0.004
professional growth and self-development									
Identification with the professional role and	111	3.75	1.00	4.00	4.00	1.00	5.00		
the school									

Table 15: Assessment of Teaching Practice Conditions by Students at the Training School

Conditions	Ν	Mean	AM	SD	Me	Mod	Min	Max	Friedman Test	p-value
		rank								
Equipment of classrooms and laboratories	93	3.53	3.96	0.88	4.00	4.00	1.00	5.00	50.298	0.000
Material-didactic resources for teaching curriculum topics	93	3.67	3.99	0.93	4.00	4.00	1.00	5.00		
Timetable	93	3.67	4.00	0.77	4.00	4.00	2.00	5.00		
Composition of classes	93	3.68	4.01	0.77	4.00	4.00	2.00	5.00		
Space for the trainee (office, staff	93	3.85	4.05	0.90	4.00	4.00	2.00	5.00		
room, workspace)										

Opportunities to participate in other school activities	93	2.59	3.42	1.06	4.00	4.00	1.00	5.00		
	Dunn-Bonferroni Post Hoc Test	Adjusted Significance								
Opportunities to participate in	3.429	0.009								
Opportunities to pa	rticipate	in other	school	activiti	es – Ti	metable			3.919	0.001
Opportunities to participate in othe	Opportunities to participate in other school activities – Material-didactic resources for teaching curriculum topics									
Opportunities to participa	te in oth	er school	activit	ies – C	omposi	tion of c	classes		3.978	0.001
Opportunities to participate in othe	er schoo	l activitie	s – Spa	ce for	the trai	nee (offi	ice, staf	f room,	4.605	0.000
	workspace)									
Equipment of	classroo	ms and l	aborato	ries – T	Fimetal	ole			-0.490	1.000
Equipment of classrooms and labo	ratories	 Materia topics 	ıl-didac	tic reso	ources	or teach	ing cur	riculum	-0.510	1.000
Equipment of classro	ooms an	d laborate	ories –	Compo	sition of	of classe	s		-0.549	1.000
Equipment of classrooms and		ories – S vorkspac		r the tr	ainee (o	office, st	aff root	m,	-1.176	1.000
Timetable – Material-	didactic	resource	s for tea	aching	curricu	lum top	ics		0.020	1.000
Time	Timetable – Composition of classes									
Timetable – Space	-0.686	1.000								
Material-didactic resources f	-0.039	1.000								
Material-didactic resources for tea	-0.666	1.000								
Composition of classes -	Space for	or the trai	nee (of	fice, st	aff rooi	n, work	space)		-0.627	1.000

* The frequency (N) in the table is lower than 111 because not all respondents were able to provide a relevant answer to the given question.

Table 16: Mentor Teacher's Approach to the Student During Teaching Practice

Components of the Approach Interest in the trainee	Ν	Mean					Min	Mov	Friedman Test	p-value
		rank	AM	SD	Me	Mod	IVIIII	Max	Frieuman Test	p-value
	111	5.26	4.51	0.69	5.00	5.00	2.00	5.00	33.606	0.000
Motivating the trainee for the	111	4.77	4.37	0.82	5.00	5.00	1.00	5.00		
teacher's role										
Acceptance of the trainee's	111	4.88	4.41	0.78	5.00	5.00	2.00	5.00		
autonomy										
Providing information about the class composition	111	4.73	4.38	0.74	5.00	5.00	2.00	5.00		
Providing materials for lesson preparation and implementation	111	5.27	4.50	0.76	5.00	5.00	1.00	5.00		
Approach to the trainee in front of students	111	5.27	4.51	0.69	5.00	5.00	2.00	5.00		
Allowing the trainee to implement chosen teaching strategies and methods	111	5.15	4.48	0.70	5.00	5.00	3.00	5.00		
Approach to the trainee during lesson analysis	111	5.18	4.47	0.80	5.00	5.00	1.00	5.00		
Quality of the lesson analysis	111	4.49	4.30	0.90	5.00	5.00	1.00	5.00	Dunn-Bonferroni	Adjusted
]	Pairwise Comparisons									
									Post Hoc Test	Significance
Quality of the lesson analysis	1	0.674	1.000							
Quality of the lesson analy									0.772	1.000
Quality of the lesson ar									1.078	1.000
Quality of the lesson analysis – All	a	nd metho	ds	<u>^</u>				tegies	1.801	1.000
Quality of the lesson analys							alysis		1.899	1.000
Quality of the l									2.108	1.000
Quality of the lesson analys		oviding r plementa		ls for le	esson pi	reparatio	on and		2.120	1.000
Quality of the lesson analy									2.120	1.000
Providing information about the cl	lass co	mpositior role	n – Mot	ivating	the tra	inee for	the tead	cher's	0.098	1.000
Providing information about the c	lass co	mpositio	n – Aco	ceptanc	e of the	e trainee	's auton	omy	0.404	1.000
Providing information about the chosen t		compositi g strategi				ainee to	implem	ent	-1.127	1.000
Providing information about the c	sson	-1.225	1.000							
Providing information abo		1.434	1.000							
Providing information about the			ion – A					t of	-1.446	1.000
Providing information about the prep			sition –		ing ma	terials fo	or lesso:	n	-1.446	1.000

Motivating the trainee for the teacher's role – Acceptance of the trainee's autonomy	-0.306	1.000
Motivating the trainee for the teacher's role – Allowing the trainee to implement chosen teaching strategies and methods	-1.029	1.000
Motivating the trainee for the teacher's role - Approach to the trainee during lesson analysis	-1.127	1.000
Motivating the trainee for the teacher's role - Interest in the trainee	1.336	1.000
Motivating the trainee for the teacher's role - Approach to the trainee in front of students	-1.348	1.000
Motivating the trainee for the teacher's role – Providing materials for lesson preparation and implementation	-1.348	1.000
Acceptance of the trainee's autonomy – Allowing the trainee to implement chosen teaching strategies and methods	-0.723	1.000
Acceptance of the trainee's autonomy - Approach to the trainee during lesson analysis	-0.821	1.000
Acceptance of the trainee's autonomy – Interest in the trainee	1.029	1.000
Acceptance of the trainee's autonomy – Providing materials for lesson preparation and implementation	-1.042	1.000
Acceptance of the trainee's autonomy - Approach to the trainee in front of students	-1.042	1.000
Allowing the trainee to implement chosen teaching strategies and methods – Approach to the trainee during lesson analysis	-0.098	1.000
Allowing the trainee to implement chosen teaching strategies and methods – Interest in the trainee	0.306	1.000
Allowing the trainee to implement chosen teaching strategies and methods – Providing materials for lesson preparation and implementation	0.319	1.000
Allowing the trainee to implement chosen teaching strategies and methods – Approach to the trainee in front of students	0.319	1.000
Approach to the trainee during lesson analysis - Interest in the trainee	0.208	1.000
Approach to the trainee during lesson analysis – Providing materials for lesson preparation and implementation	0.221	1.000
Approach to the trainee during lesson analysis – Approach to the trainee in front of students	0.221	1.000
Interest in the trainee – Approach to the trainee in front of students	-0.012	1.000
Interest in the trainee – Providing materials for lesson preparation and implementation	-0.012	1.000
Providing materials for lesson preparation and implementation – Approach to the trainee in front of students	0.000	1.000

4 Discussion and conclusion

Regarding RQ1, we conclude that a statistically significant difference in student satisfaction was identified between MPPa and MPPd. On average, respondents reported being more satisfied with MPPa.

The observation-pedagogical-psychological practice at the Faculty of Arts, UPJŠ, is organized by the Department of Pedagogy in cooperation with the Department of Educational Psychology and Health Psychology. Before beginning their practice, teacher training students receive instructions with precise guidelines on which educational phenomena to observe and how to record them. Students are provided with supporting materials that operationalize and facilitate the process of registering student and teacher behavior during lessons. Additionally, this type of practice includes a final seminar where students evaluate the course of MPPa, highlight which aspects were fulfilled (what activities teachers performed during teaching and what they managed to monitor), and discuss whether they understood the importance of observing lessons led by more experienced teachers (experts) within the gradation model of pedagogical practice. This observation is one of the significant reflective methods that, especially for novice teachers, supports identification with a certain teaching model and professional adaptation. Regarding the Continuous Teaching Practice II, it is primarily managed by subject didactics experts. However, there seems to be a lack of a unified approach to the conception and implementation of this type of practice (e.g., supporting materials, such as observation sheets and sets of selfdiagnostic questions based on taxonomies, may vary between departments). It is also important to emphasize that for the first three types of practice, students are assigned to mentor teachers through the practice coordinator, who selects them based on their experience and student feedback, thereby minimizing issues with the practice process.

Regarding RQ2, we conclude that a statistically significant difference was identified in student satisfaction with the organization of teaching practices by teachers, psychologists, and subject didactics experts between MPPd and MPPb, and between MPPd and MPPa. In both cases, respondents generally reported being less satisfied with MPPd.

The observation-pedagogical-psychological practice and interim teaching practice are quite standardized in terms of form, content, and organization, meaning that all teacher training students have relatively equal conditions for completing them (they know what will be expected of them and what final output they will be evaluated on, regardless of their specialization). These first two types of practices focus primarily on student observations and their analysis. During the interim teaching practice, students have only one independent teaching output. Continuous Teaching Practice II, on the other hand, is differentiated depending on the subject didactics experts overseeing it, and students are left to choose their own training elementary or secondary school. In this case, they also interact with mentor teachers with whom the Faculty of Arts, UPJŠ, does not maintain contact or close cooperation (they are not on the list of teachers regularly providing teaching practice opportunities; their approach to students and interest in their professionaleducational needs are unknown). The Department of Pedagogy and the Department of Educational Psychology and Health Psychology intervene the least in this type of practice, although students are provided with preliminary instructions and recommendations before it begins (e.g., how to get involved in school life and the school's operations). However, they do not guide students in lesson preparation or the appropriate use of didactic tools for the given class. Students often report that Continuous Teaching Practice II conflicts with the period when they are finalizing their theses, preventing them from focusing adequately on preparing model lessons for the teaching practice. Kiggundu and Navimuli (2009) explored the experiences of teacher training students during their 10-week practice, focusing on how these experiences influenced their perception of the teaching profession. Despite the positive experiences, future teachers also faced challenges. In some schools, they felt unaccepted by other educators and had to play dual roles (teacher and student), resulting in increased pressure on them. Regarding RO3, we conclude that a statistically significant difference was identified in student satisfaction with the scope of

observations between MPPd and MPPc, MPPd and MPPb, and

MPPd and MPPa. In all three cases, respondents generally reported being less satisfied with MPPd.

Although the number of observations (monitoring teachers' educational activities) decreases with a higher level of practice, it remains a crucial component of the practical preparation of a novice teacher. Observations serve to inspire students on how to handle educational and instructional challenges when working with students or to compare learned theories and educational concepts with their application in practice. The observed differences may suggest that students would welcome a reduction in the number of observations and an increase in independent teaching outputs. However, it is important to note that including observations in each type of practice has its rationale, as students may start their practice with a different mentor teacher each time. Therefore, in the initial phase, it is essential to observe the conditions under which teaching is conducted, how experienced teachers manage the course of the lesson, and how they interact with students (how they communicate, assess, and what teaching style they prefer). Referring to the taxonomy of psychomotor objectives (Dave, 1970 In Petlák, 2016), before engaging in pedagogical-didactic activities, it is advisable to first prepare for them, practice them, and only after mastering individual tasks proceed to their comprehensive implementation.

Regarding RQ4, we conclude that a statistically significant difference was identified in student satisfaction with the scope of independent outputs between MPPd and MPPc. On average, respondents reported being more satisfied with MPPc.

Similarly, to the discussion of the response to RQ3, while the number of independent outputs increases with a higher level of practice, this feedback from students may indicate that it would be more beneficial for them to increase the number of independent outputs specifically in Continuous Teaching Practice II (at an appropriate time outside of other study obligations). This information should prompt a reflection on the logistics of practice organization by the university and its potential to expand cooperation with additional training schools. However, this presents only one perspective, as this practice model is well-established in Slovakia, and university studies are structured rather than continuous, with a division between theoretical and practical preparation. This raises the question of how the university can influence this matter and how it can compensate for it (e.g., creating activities within various pedagogical disciplines that allow students to try out educational activities with students in school educational institutions). A suitable alternative to consider is the implementation of practices within extracurricular activities (if we consider events organized by various civic associations, etc.).

Regarding RQ5, we conclude that no statistically significant difference was identified in student satisfaction with the fulfillment of the mission and objectives of the teaching practices.

We primarily attribute this to the fact that before each practice, a meeting is held with the students where, as mentioned earlier, they are provided with didactic and diagnostic materials (in the case of MPPc and MPPd, these are provided by didactics experts according to the subject). Additionally, they are informed about the specific focus of each practice, how it contributes to the development of professional skills, and how it relates to the structure of their field of study. Each practice has a set objective, recommendations for its implementation, and a defined outcome regarding what students should be able to handle after its completion and how they should approach reflecting on educational experiences (in cooperation with the mentor teacher). Although we remain in the realm of assumptions, students likely perceive a connection between these practices and their studies, in other words, the expansion of knowledge from specialized, pedagogical, and psychological subjects, along with their verification and reconstruction during teaching practice. Msangya et al. (2016) used semi-structured questionnaires to explore the perspectives of teacher training students regarding their experiences with teaching practice. The findings indicate that future teachers perceived practice as an important tool that supported the development of their teaching skills, preparing them for the real world of work in schools. Nevertheless, the study recommends more thorough supervision and building a strong university partnership with local schools, which is the primary goal of the Faculty of Arts, UPJŠ (in organizing practices).

Regarding RQ6, we conclude that a statistically significant difference was identified in students' preparedness for the observation-pedagogical-psychological practice. On average, respondents reported being more prepared in pedagogy than in psychology.

It is clear that this will also depend on the nature of the subjects represented in the teacher training curriculum and how the students themselves assess the urgency/necessity of their knowledge in relation to this type of practice in primary and secondary schools. The difficulty of noticing pedagogical phenomena is generally lower (e.g., the didactic methods used, organizational forms, assessment) than that of psychological phenomena (e.g., being able to determine the prevailing classroom climate or the effectiveness of the teacher's methods in relation to student learning and engagement). This requires more frequent practice and a holistic approach to teaching, where students do not focus solely on selected activities but are able to reflect on the educational process with attention to details (e.g., "What did the teacher do?" "What did the students do?" "How did the teacher feel?" "How did the students feel?") (Koster & Korthagen, 2011; Kouteková, 2011).

Regarding RQ7, we conclude that a statistically significant difference was identified in students' preparedness for the interim teaching practice between subject didactics of the 1st specialization subject and specialized subjects of the 1st specialization subject, between subject didactics of the 1st specialization subject, and specialized subjects of the 2nd specialization subject, and between subject didactics of the 2nd specialization subject and specialized subjects of the 2nd specialization subject. On average, respondents reported being more prepared in specialized subjects.

Teacher training students encounter subject didactics only during their master's studies (after the winter semester, they have completed only general didactics, and subject didactics typically come later). Therefore, during their bachelor's studies, they have only limited exposure to teaching strategies (e.g., in general pedagogy, educational diagnostics, theory of education), whether it involves lesson planning, didactic analysis of content, the use of methods in various stages of a lesson, or student assessment and evaluation. They gradually (often implicitly) develop the ability to carry out the didactic transformation of scientific information and knowledge in a way that conveys it to students in a simplified and systematic form, enabling students to develop their knowledge, skills, and habits. One possible solution would be to change the placement of teaching practices in study programs (e.g., introducing MPPa during the bachelor's program), which, however, is challenging to implement given the current study model. Another option is to design most pedagogical (and even psychological) courses and subject didactics so that students are evaluated based on practical outputs (focusing not just on mastering theory but also on applying it during practical exercises). This approach is used, for instance, in the implementation of general didactics.

Regarding RQ8, we conclude that no statistically significant difference was identified in students' preparedness for Continuous Teaching Practice I with respect to pairwise comparisons.

With the completion of additional courses related to pedagogy and subject didactics, teacher training students sequentially expand their knowledge, which forms the foundation for developing professional competencies and demonstrating them in practice in line with professional standards. This may not be the only reason for the results we obtained. The number of independent outputs in this type of practice is significantly higher (18 hours per specialization subject) compared to interim teaching practice (1 hour per specialization subject). Therefore, students may have gained a more thorough understanding of their preparedness for practice, even in subjects forming the core of teacher training (e.g., whether and how they can address various educational problems based on previous theory and experiences, which arise from interactions with students and their learning needs).

Regarding RQ9, we conclude that a statistically significant difference was identified in students' preparedness for Continuous Teaching Practice II between psychology and specialized subjects of the 2nd specialization subject. On average, respondents reported being more prepared in the specialized subjects of the 2nd specialization subject.

On one hand, this may relate to which psychology courses are mandatory for students and which they choose to study based on their practical professional needs. On the other hand, it raises the question of whether students are being adequately prepared to analyze the conditions, process, and student work during lesson evaluations from the perspective of various psychological disciplines (e.g., ontogenetic psychology, educational psychology, social psychology). As mentioned in the commentary on RQ6, the need to understand psychological principles in teaching and student learning including the perception and differentiation of key factors influencing the effectiveness of education - becomes increasingly pressing with more teaching practice. Initially, a novice teacher focuses mainly on managing the lesson content, but later, once they feel confident in that aspect, they may wish to adopt a more global perspective on the classroom. In older practice models, it was common for both the subject didactics expert and a psychologist to attend the student's teaching output, where they, along with the student teacher, would evaluate the pedagogical-didactic activities in terms of professional competencies related to the educational process and students (considering what happened in the classroom, the atmosphere, and how the student used methods to activate and motivate students).

Regarding RQ10, we conclude that no statistically significant difference was identified in student satisfaction with their performance as a teacher during previous teaching practices with respect to pairwise comparisons.

Behind this result, we see the initiative of the didactics experts (not limited to the departments overseeing the teacher training core) to prepare students for the various types of practice. This includes a tendency toward jointly solving issues related to practices, with didactics experts from departments consulting the coordinator of teaching practices when there are changes in mentor teachers and after evaluating student feedback. This may later influence students' responsible selection of mentor teachers (in MPPd), as they are informed about how and in what ways a mentor teacher should support them and which mentor could serve as a reflective practitioner (a teacher who pays attention to lesson analysis, evaluation, and structuring of educational experiences). This is also supported by the research results presented in Table 16, where respondents assessed the approach of mentor teachers in their previous teaching practices. None of the components of the mentor teacher's approach to the trainee stood out significantly.

Regarding RQ11, we conclude that a statistically significant difference was identified in the perceived necessity of teaching practices for students in the practical professional preparation of future teachers between MPPa and MPPd, MPPa and MPPc, MPPb and MPPd, and MPPb and MPPc. On average, respondents indicated that MPPc and MPPd are more necessary.

This is understandable, considering the number of independent outputs students carry out in each type of practice. However, observations also have their significance in teaching practice (Hupková, 2006; Rys, 1975). Developing functional literacy, where an individual applies learned knowledge to independently address problems and discrepancies, initially relies on successfully mastering the techniques of selected activities and understanding their importance for the effectiveness of educational work. In teacher preparation (as well as for students), didactic principles of adequacy, clarity, continuity, and progression are taken into account. Understanding and accepting this analogy serves as a platform for students to develop professional competencies (e.g., the content and scope of these competencies are modified with a higher career level of the educational employee).

Regarding RQ12, we conclude that no statistically significant difference was identified in the level of students' professional competencies in the area of "student".

All three professional competencies under this area, if generalized, relate to understanding and assessing the conditions of education, which, as derived from the theory of general didactics and pedagogical diagnostics, represent a multifaceted complex of both educational and non-educational phenomena associated with the abilities and capacities of students and the teacher. Although there is no noticeable difference in how respondents rated their level, attention should be directed to comparing measures of central tendency between these competencies and those categorized under the areas of the educational process and professional development. We are operating at a descriptive level, but it is noticeable that recognizing educational factors that frame the course and nature of the educational process appears to be relatively more challenging and requires more extended practice (reflected experience). Pedagogical diagnostics must not remain solely at an intuitive level; it must have a scientific and professional foundation (planning its implementation, utilizing other forms of diagnostics besides didactic, using valid diagnostic methods). Currently, as teachers face pressure to implement the concept of inclusive education in schools, as outlined in the "Strategy for an Inclusive Approach in Education" (2021), this is a key priority in preparing teacher training students for practice. The goal is for them to adopt the role of inclusive educators (developing selfefficacy and competencies in this area) (Lechta et al., 2012). The study by Liu et al. (2022), which focuses on the teaching experiences of student teachers, demonstrates that after their internship, they were still more self-focused, even though they recognized the importance of focusing on students and their educational needs during teaching.

Regarding RQ13, we conclude that no statistically significant difference was identified in the level of students' professional competencies in the area of "educational process" with respect to pairwise comparisons.

These are the core competencies that define a teacher as a didactics expert responsible for planning, preparation, execution, and evaluation of the educational process. Along with diagnostic and reflective competencies, they form the foundation for optimizing teaching. The fact remains that in teaching practice, given its time and scope limitations, students primarily focus on developing skills related to processing and conveying subject matter to students and verifying the level of its acquisition by them. However, they may perceive these competencies in a simplified manner because they involve a complex set of activities that extend beyond direct teaching (the student's performance during a lesson is focused on the informational aspect but less on the formative or curricular/content aspects), which stems from the limitation mentioned earlier (number of independent outputs). Professional competencies, of course, are based on professional standards, but it would be beneficial to more precisely define the elements (knowledge, skills) that represent them. Komba and Kira (2013) examined the effectiveness of teaching practice in terms of improving student teachers' teaching skills. The findings suggest that the length of the practice was insufficient for acquiring the competencies necessary for effective teaching. Supervisors during the practice were not flexible enough to discuss with student teachers their strengths and weaknesses observed during teaching. Of the total number of participants, 76% stated that teaching practice did not help them improve as future teachers.

Regarding RQ14, we conclude that a statistically significant difference was identified in the professional competencies of students in the area of "professional development". On average, respondents reported a higher level of competency in identifying with the professional role and the school compared to planning and implementing their professional growth and selfdevelopment.

Planning and implementing professional growth and selfdevelopment are not only connected to teachers' length of practice and their experience in educating students, but professional adaptation of the novice teacher (career progression) and the identification or definition of current educational needs aligned with the needs of the school, its educational philosophy, culture, and policy, also play a crucial role. Teachers often lack professional support from experienced mentor teachers, who could assist them in self-reflection and self-evaluation of their teaching performance. Identifying with the professional role and the school remains the starting point. Zhao and Zhang (2017) investigated how field teaching practice affects the professional identity of teachers in the preparatory phase. The research results showed that, compared to the period before field teaching, the professional identity of novice teachers increased after completing the practice, specifically in terms of the growth of inner value identity, which was also supported by mentors. The practice also contributed to the professional engagement of novice teachers (students), enhancing their emotional assessment and confidence in the teaching profession.

Regarding RQ15, we conclude that a statistically significant difference was identified in the assessment of teaching practice conditions by students at the training school between the opportunities to participate in additional school activities and the equipment of classrooms and laboratories, the timetable, the composition of classes, the material and technical resources for teaching curriculum topics, and the space for the trainee. On average, respondents rated the opportunities to participate in additional school activities lower.

The teaching profession is often limited to the area of instruction and related tasks. However, it is teachers who contribute to shaping the school climate and maintaining the tendencies and values that define the school as an educational institution responsive to current societal trends and the needs of individuals/students. This is why teacher training students should be involved in the life of the school, which ultimately depends on the primary goals of teaching practices (such as participating in school-organized events – excursions, trips, training, etc.). It is also important to remember that teachers are qualified to perform the roles of a teaching assistant or educator.

Regarding RQ16, we conclude that no statistically significant difference was identified in the mentor teacher's approach (its components) to the student during teaching practice with respect to pairwise comparisons.

This result leads us to believe that efforts toward uniformity in organizing teaching practices, closer collaboration with mentor teachers in elementary and secondary schools, understanding their specific characteristics, and their potential contribution to shaping teacher training students play a significant role in the professional preparation of future teachers. The mentor teacher should serve both as a role model and a mentor (consultant, facilitator, etc.). Since the Dunn-Bonferroni post hoc test is conservative and, in this case, it was the largest number of pairwise comparisons, which increases the occurrence of a type II error, we could consider, given the value of the mean rank and the arithmetic mean, that it proves to be appropriate to work on unification of quality of the lesson analysis conducted by mentors and student teachers. Caires et al. (2012) analyzed student teachers' perceptions of teaching practice (their feelings, insights). The research results highlight some difficulties

encountered during this period (stress, feelings of fatigue, vulnerability), but also the growing knowledge and skills of student teachers, as well as a more developed sense of flexibility in performance and interactions. Students also positively evaluated the guidance and support from their supervisors.

Tóblová and Krištofiaková (2021) provide several key recommendations for improving interim teaching practice, drawing inspiration from the final evaluation analysis by Gubricová and Bizová (2016). These include identifying weaknesses in the organization of practice (on the part of training schools and mentors), expanding practice in institutions involved in extracurricular education (at least observations in school clubs for children), placing practice in a larger number of training schools (so students can compare them in terms of student social structure or the quality of the educational process), maximizing the scope of interim practice (seeking suitable alternatives), introducing interim practice into the lower years of study (to connect the theoretical and practical components of teacher preparation early), and updating the list of mentor teachers based on student feedback. The Faculty of Arts and the Faculty of Science, UPJŠ, have long reflected these recommendations, but as the research results indicate, addressing other critical points is necessary. These include ensuring uniformity in the setup of practices (in terms of broader cooperation between departments) (MPPc, MPPd), adjusting the ratio of observations to direct educational activities of students during practice (MPPb, MPPc, and MPPd), providing more thorough preparation for practice in psychology (MPPa, MPPd) and subject didactics (MPPb), focusing on enhancing students' diagnostic skills, and encouraging training schools to involve students in other activities (not limited to teaching). The number of teaching practice hours for teacher training students in Slovakia is extremely low compared to Finland (almost incomparable), but three approaches could serve as inspiration and are considered prerequisites for the success of university education for future teachers: a continuous connection with the school (school-based; starting at the bachelor's level), personal experimentation - innovation (experimental personal-based), and solving problems and situations from educational practice (problem-based, case-specific) (Sahlberg, 2010 In Kosová, 2016). We are, of course, aware of the research limitations, such as the available sample of respondents (students of natural sciences predominated, representing almost half of the sample, followed by students of other fields), the research tool used (whose validity and reliability are questionable), and the potential for biased responses (the questionnaire was anonymous, but the students had not yet completed their studies, which might have affected the reliability of their answers).

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