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The Development of Collaborative-Based Learning Models to Increase Self-Efficacy and Positive Attitudes of Primary Teacher Education Students towards Inclusive Education in Yogyakarta

Unik Ambar Wati¹*, Hermanto¹, Sisca Rahmadonna¹, Pujaningsih¹, Mahilda Dea Komalasari², Kukuh Wahyudi Pratama³

> ¹Universitas Negeri Yogyakarta, Indonesia ²Universitas PGRI Yogyakarta, Indonesia ³Institute of Advanced Science, Engineering, and Education, Malaysia *Corresponding Author. E-mail: unik@uny.ac.id

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Abstract: This study attempts to develop a collaborative-based learning model that can increase selfefficacy and positive attitudes of Primary Teacher Education students toward inclusive education in Indonesia. This study is intended to provide an understanding to the students who are also teacher candidates. The understanding is about the importance of positive attitudes and teaching abilities, which in this study are limited in self-efficacy. The present study employed the Research and Development (R & D) research model. The research participants were elementary school teachers who teach in inclusive schools and 54 students. Quantitative and qualitative techniques were used to analyze the data. Mann– Whitney U test was used to determine changes in students' self-efficacy and attitudes before and after learning activities. The results indicate a significant difference in self-efficacy with p sig < 0.05. The ttest result is 0.119. As the t_{count} is greater than the t_{table} (0.119 > 0.05), it indicates that there is no significant difference. Hence, it can be inferred that there is no statistically significant difference in developing a collaborative-based lecture model aimed at enhancing self-efficacy and fostering favorable attitudes among students towards inclusive education in Yogyakarta.

Keywords: learning model, collaborative, self-efficacy, positive attitude, inclusive education

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Introduction

Today, inclusive education sets all students with special needs in conventional classrooms for the whole school day (Krämer et al., 2021). This condition demands an understanding that inclusive education equates children with special needs with normal children (Griful-Freixenet et al., 2021). For this reason, teachers have full responsibility for students with special needs during the teaching-learning process in the classroom. Teachers must be able to deal with students' different characters (Buchner et al., 2021). According to Regulation of the Ministry of National Education Number 70 of 2009, inclusive education is a system that affords equal educational opportunities to students with disabilities with intellectual potential and special talents, enabling them to learn alongside their peers in a general educational setting. From national to regional level policies, inclusive implementation has been legitimized by the government. It provides convenience in its implementation because inclusive education already has a strong legal basis. However, regarding inclusive education implementation, there are many obstacles, including technical and non-technical conceptual barriers.

Some studies on teacher preparation programs have been done in some countries. It was found useful for prospective teachers when they received courses on children with special needs regarding knowledge, attitudes, and skills (Li & Ruppar, 2021). Additional teacher training on how to deal with



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students with special needs influences positive teacher dispositions and the desire to implement inclusive education (Page et al., 2021). Byrne (2022) stated that changes in teacher education to support inclusive education can be made by adding new courses or field experiences and revising existing materials. Another strategy that can be taken is to determine the courses for special teacher candidates and regular teacher candidates. Pit-ten Cate et al. (2018) investigated the impact of this strategy in courses attended by prospective teachers (regular and special) through various collaborative activities with students. Students felt prepared to create lesson plans, implement various learning strategies, and make modifications.

Tuncay & Kizilaslan (2022) emphasized that a learning environment that promotes opportunities for sharing opinions, making decisions, communicating, and collaborating among teacher candidates for regular and special classes is intended to develop professional knowledge and skills. In addition to the competencies that must be achieved in the education of prospective teachers, an attitude is needed to face the challenges of teaching in inclusive schools, namely, a positive outlook. Ismailos et al. (2022) argued that a positive view of students with special needs is one of the most important aspects of teacher education programs. In addition to a positive outlook, collaboration skills with other instructors are required when dealing with students of varying capacities. A study conducted by Saloviita (2020) found that 84% of the teacher respondents stated that they should have the skills to collaborate with special teachers. The lecture process in the education of prospective teachers in this study aims to build self-efficacy and positive attitudes based on social cognitive theory (Van Mieghem et al., 2020).

Some theories underlie research related to some topics, such as student motivation in the academic context (Anwer, 2019), teacher stress (Von der Embse et al., 2019), beginner teacher (Lucey & Van Nieuwerburgh, 2021), and teacher competence in dealing with students with special needs (Weiss, Markowetz, & Kiel, 2018). Most of these studies use self-assessment, so it is possible to have potential bias. Self-efficacy can change in a negative or positive direction depending on four sources, i.e., achievements, direct experience, invitations (verbal persuasion), and psychological conditions (Ayllón et al., 2019). These four sources can color the educational process of prospective teachers with various learning experiences depending on the lecture process and predisposition and each student. Geng et al. (2019) stated that the quality of teacher preparation programs is one of the sources of self-efficacy for novice teachers when they teach. It is in line with Yada et al. (2021), who stated that self-confidence and teaching competence are the most appropriate predictors to describe the quality of teacher education programs to prepare prospective teachers with adequate knowledge and skills.

Collaborative-based lecture model is one of the three models for integrating special education materials into the general education curriculum (Kesäläinen et al., 2022). This model requires intensive cooperation from the supporting lectures. Cooperation is especially needed in preparing lecture materials, delivering material, and determining the target outcomes (Al-Zboon, 2022). The model tries to solve other model weaknesses, namely, separated lectures/separated models and integrated lectures/infusion model. The collaborative lecture model allows prospective teachers to collaborate with students from other study programs during lectures. At the same time, the students are also directly mentored by lecturers from two different disciplines (Sciuchetti, 2017). Consequently, prospective teachers' collaboration skills would have been refined in college courses and practicums, making it possible for them to work with children with special needs in inclusive schools (Anderson & Putman, 2020).

This research was motivated by the gap between the needs for teacher skills in handling diverse students, including children with special needs. This study also focused on solving problems related to Teacher Training Institutes (educational institution) preparation of prospective teachers who have not adequately answered these challenges. In addition, kindergarten, elementary, junior high, and senior high school teachers who are ready to handle children with special needs continue to grow. However, the preparation of teacher candidates in some educational institutions in Indonesia has not fully answered this challenge because the preparation is still limited to providing 1 inclusive education course that presents an overview of only children's various needs without strategies to fulfill them.

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Methods

The population in this research was elementary school teachers who teach in inclusive schools and 54 students. The present study employed the research and development (R&D) design in which the main activities were adopted from the model developed by Borg and Gall (2003). This research and development were carried out through ten main stages, namely:

1. Information Collection

It was done by reviewing the literature on teacher education models that had been developed and researched and then identifying the gap between teacher competence in inclusive schools and the expected competence.

2. Design Development

This design was integrated into the educational institution curriculum and is in the form of a model and a teacher curriculum development guidebook that supports inclusive education and includes the aspects of substance, procedures, strategy, and evaluation system as well as indicators of success in model implementation.

3. Product Development

This stage began with collecting, compiling, and organizing materials according to developing teaching materials and printing principles.

4. Internal Validation

Media experts provided advice and assessed the quality of teaching materials. Meanwhile, the validation by material experts was to provide suggestions and ratings on the quality of the developed materials.

5. Preliminary Trial

The first limited trial was conducted in 1 educational institution and focused on 1 study program. The models and guidebooks for prospective teacher education that support inclusive education were used in a class.

6. Product Revision

The revision was done based on the internal validation and preliminary trial results to improve the initial hypothetical model.

- Preparation of the Guidebook Draft The draft of the guidebook to support inclusive education is the revised product of the initial design validated.
- 8. Test of the Product Effectiveness

The learning models and guidebooks that support inclusive education were assessed to measure their effectiveness.

9. Final Improvement

In this stage, the model and guidebook for prospective teacher education that supports inclusive education were revised.

10. Implementation and dissemination of models and products (handbook).

Statistical analysis

The present study employed a descriptive narrative approach to conduct data analysis, wherein a comparison was made between pre- and post-implementation data on student knowledge, attitudes, and perceptions about services for children with special needs in inclusive schools. This analysis was conducted within the framework of the proposed learning model.

Results and Discussion

Results

Data collected during the research were analyzed through the descriptive narrative technique with a comparison of student knowledge, attitudes, and perceptions regarding services for children with

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special needs in inclusive schools before and after implementing the teacher education model at Primary School Teacher Education partner universities. The result of the data analysis is presented below.

Table 1. Self-Efficacy Statistics Test Results						
Statist	ics	Pretest_SE_A	Postest_SE_A			
N	Valid	27	27			
IN	Missing	0	0			
Mean		85.5556	89.3333			
Media	n	88.0000	90.0000			
Mode		94.00a	96.00			
Std. D	eviation	8.69718	7.86912			
Minim	num	66.00	59.00			
Maxin	num	96.00	96.00			
Sum		2310.00	2412.00			

a. Multiple modes exist. The smallest value is found.

Based on Table 1 above, with a sample of 54 people, the minimum value of the pre-test is 66, the minimum value of the post-test is 59, the maximum value of the pre-test is 96, the maximum value of the post-test is 96, with the mean values of pre-test and post-test are 85.55 and 89.33, std. deviation of the pre-test is 8.69, and Std. deviation of the post-test is 7.86.

Table 2. Normality Test Results (NPar Test)						
		Pre-test SE A	Post-test SE A			
N		27	27			
Normal Parameters a b	Mean	85.5556	89.3333			
	Std. Deviation	8.69718	7.86912			
Most Extreme	Absolute	.187	.200			
Differences	Positive	.115	.198			
	Negative	-187	-200			
Test Statistic	-	.087	.072			
Asymp. Sig. (2-tailed)		116*	107*			

a. Data distribution is normal

b. Calculated from the data

c. Liliefors Significance Correction

From Table 2 above, the data are said to be normal if p Sig > 0.05. The data obtained from the pre-test and post-test are normal.

Table 3. Homogeneity Test Results								
					95%	Confidence		
N					Interval f	for Mean		
IN			Std.	Std.	Lower	Upper		
		Mean	Deviation	Error	Bound	Bound	Minimum	Maximum
Pretest	27	85.5556	8.69718	1.67377	82.1151	88.9960	66.00	96.00
Post-test	27	89.3333	7.86912	1.51441	86.2204	92.4463	59.00	96.00
Total	54	87.4444	8.43324	1.14762	85.1426	89.7463	59.00	96.00

Table 3 above shows that the combined mean value obtained from the pre-test and post-test in the one-way test is 87.44, with a total std. deviation is 8.43, and a total std. error is 1.14.

Table 4. Self-efficacy					
Levine Statistic	df1	df2	Sig.		
1.112	1	52	.296		

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Table 4 above shows the homogeneity of variance of self-efficacy. Levene statistic obtained is 1.112, with df 1, df2 52, and a significant value of (0.296). The pre-test and post-test data are homogeneous if p sig > 0.05. The result is sig .296, which means the data are homogeneous.

Table 5. Paired t-test results						
		Mean	Ν	Std. Deviation	Std. Error Mean	
Pair 1	Postest_SE_A	89.3333	27	7.86912	1.51441	
	Pretest_SE_A	85.5556	27	8.69718	1.67377	

Table 5 above shows that the pre-test mean value is 89.33, while the mean value of the post-test is 85.55, the std deviation in the pre-test is 7.869, and the post-test value is 8.697. Then, the value of the std. error mean of the pre-test is 1.51, and std. the error means value of the post-test is 1.67.

Table 6. Paired Samples Correlations					
		Ν	Correlation	Sig.	
Pair 1	Postest_SE_A & Pretest_SE_A	27	079	.696	

Table 6 above shows the pre-test and post-test results with a sample of 27. The correlation value is -.079 with Sig .696.

Table 7. Paired Samples Test							
Ν	Mean	Std. Deviation	Std. Error	95% Confidence Interval for the Differences Lower Upper	t	df	Sig. (2- tailed)
Pair Post-test SE A 1 Pre-test SE B	3.77778	12.17922	2.34389	-1.04016 8.59572	1.612	26	.119

Table 7 above shows that self-efficacy data are said to have a significant difference if p sig < 0.05, t-test results obtained is 0.119, which is greater than 0.05. It means no significant difference exists between post-test and pre-test self-efficacy data (shown in statistics).

From the data analysis result, the pre-test's mean value is smaller than the post-test's (85.56 < 89.33), with a gap of 3.78. It means that the difference is not significant.

	Table 8. Pre-test Descriptive Results B (statistic)					
N	Valid	29				
IN	Missing	0				
Mean		86.6552				
Median		92.0000				
Mode		96.00				
Std. Deviation		12.23367				
Minimum		48.00				
Maximum		98.00				
Sum		2513.00				

From Table 8 above, with a sample of 29 people, it was obtained that the minimum value is 48, the maximum value is 98, the mean value is 86.65, and Std. The deviation is 12.23.

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		110000)
Ν		29
Normal Parameters	Mean	86.6552
	Std. Deviation	12.23367
Most Extreme Differences	Absolute	.221
	Positive	.177
	Negative	221
Test Statistic		.091
Asymp. Sig. (2-tailed)		.101c

Table 9. Pre-test B	. Normality	Test Results (NPar Tests)	
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a. Data distribution is normal.

b. Calculated from the data

c. Lilliefors Significance Correction

From Table 9 above, with a sample of 29 people, the mean value obtained is 86.65, and the Std. The deviation is 12.23. The data are said to be normal if p sig > 0.05. As the p_{value} is 0.101, the pre-test data pass the norm of the one-sample t-test.

Table 10. T-test					
	Ν	Mean	Std. Deviation	Std. Error Mean	
Pretest_SE_B	29	86.6552	12.23367	2.27173	

From Table 10 above, with a sample of 29, the obtained mean value is 86.65, std. deviation is 12.23, and the Std. error mean is 2.271.

Table 11. One Sample Test						
				df 95% Confi	dence Interval	
			16	for the D	ifferences	
Test Value – 0		C_{in} (2 to it d)	Mean	Lower	Upper	
Test value -0		Sig. (2-tailed)	difference			
Pre-test SE B 38.145	28	.000	86.65517	82.0017	91.3066	

Table 11 shows that the self-efficacy pretest data for class B is significantly different if p sig < 0.05. The t-test result is 0.000. As the value is smaller than 0.05, there is a significant difference in the self-efficacy pre-test data for class B (seen from the statistics). Then, judging from the mathematics, because the mean value of the pre-test is 86.65, each sample is significantly different.

Discussion

Teacher plays a crucial role in determining the efficacy of inclusive education implementation, with their positive attitude serving as an important factor in achieving the goals of inclusive education (Fuente, 2021). Similarly, According to Li & Cheung (2021), the effectiveness of inclusiveness depends on how the teacher interacts with students in the classroom. Moreover, Kivirand et al. (2021) argue that the formation of positive attitudes toward inclusive education cannot be ignored in the education of prospective teachers. Therefore, research on the development of a general pedagogic-based collaborative lecture model with Orth pedagogics (extraordinary education studies) to support inclusive education can be one of the initiatives to improve prospective teachers' ability to educate children with various features and abilities in inclusive schools (Lynch et al., 2017). Septiana (2018) points out that inclusive elementary school teachers with high self-efficacy have a high level of competency. This competency will ultimately improve self-quality, which later can enhance students' quality. It can also help understand the difficulties in teaching, determine learning methods, choose media for learning, and develop an enhanced rubric for lesson plan analysis.

Gratacós et al. (2021) discovered that the standard of teacher preparation programs is one of the sources of self-efficacy among beginning teachers. It is consistent with Outlaw & Grifenhagen's (2021)

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argument that teachers' self-confidence and teaching competence are the best predictors of the quality of teacher education programs that prepare prospective teachers with the necessary knowledge and skills. Another relevant previous study which was conducted by Fabriz et al. (2021), described how self-efficacy of teacher candidates for students with disabilities in inclusive schools. This study aims to develop a collaborative-based lecture model that can increase self-efficacy and positive attitudes of prospective primary education teachers towards inclusive education in Indonesia. The results of the study are: 1) dissemination is carried out by involving several universities; 2) collaborative lectures with UPY partner campuses were carried out through planning, material integration, lecture implementation, assessment, and reflection; and 3) self-efficacy of UPY students from the t-test results is 0.119 (0.119> 0.05), so there is no significant difference between post-test and pre-test self-efficacy data.

Smothers et al. (2020) conduct the next relevant previous self-efficacy research. The study focused on teacher candidates' confidence in their ability to instruct children with special needs in inclusive institutions. In general, the results indicated that the self-efficacy of prospective teachers was moderate. Based on the three sub-constructs of prospective teacher self-efficacy, it was found that: 1) the sub-construction of "Using Inclusive Instructional" is in the moderate category as prospective teachers had lack confidence that they could use inclusive learning strategies, use various assessment strategies, and design learning materials and assignments that are able to accommodate all students; 2) the "Collaboration" sub-construct was in the Moderate category because prospective teachers had lack confidence they could involve parents, colleagues, and professionals in learning activities; and 3) "Managing Behavior" subconstruct was also in the Moderate category as the prospective teachers had lack confidence to deal with physically aggressive students, lack confidence in preventing, detecting, and controlling disruptive behaviour in the classroom, and lack of confidence in creating a disciplined atmosphere in the classroom.

The previous study was performed by Nursyamsi & Corebima (2016). The study aimed to investigate the impact of the Numbered Head Together learning model on fourth-grade students' self-efficacy in science subjects. It utilized a quasi-experimental design with non-equivalent post-test-only control groups. The samples were chosen using a basic random sampling method. The participants of the study were 62 students. Data were collected through tests and surveys. The data analysis technique in this study was descriptive and inferential analysis techniques. Based on the t-test results, t_{count} is 12.55, while t_{table} with df = 60 at a significant level of 5% is 1.95. It means that t_{count} is greater than t_{table} ($t_{count} > t_{table}$), so that H₀ is rejected and H1 is accepted. It indicated a significant difference between the self-efficacy of students taught using the Numbered Head Together learning model and those who did not. The Numbered Head Together learning model has a positive effect on fourth-grade elementary school students' self-efficacy in science disciplines, and it can enhance students' self-efficacy.

Conclusion

The assessment results by the media and material experts show several important input points. First, the research dissemination should be carried out by involving three educational institutions at Universitas Ahmad Dahlan (UAD), Universitas Sarjanawiyata Tamansiswa (UST), and Universitas PGRI Yogyakarta (UPY). Second, the product implementation should be done by conducting collaborative lectures with UPY lecturers in the High-Grade Elementary Learning Curriculum course. At last, based on the t-test results, UPY students' self-efficacy score is 0.119, meaning there is no significant difference in the post-test and pre-test data of self-efficacy.

Inclusive education is a type of education that encompasses all aspects of the embrace of students with disabilities in the pursuit of fundamental rights. It is a system or strategy to create an education that is open to all individuals to create responsive schools that accommodate diversity and needs according to the conditions of each individual. The goals of inclusive education include providing learning opportunities for all, contributing to learning activities in regular schools and classrooms, and obtaining programs substantially similar to the curriculum, which can be adapted and modified if necessary. The implementation of inclusive education is founded on the principle that all communities have equal access to education without discrimination. However, the implementation of inclusive education is not always seamless, and numerous obstacles still prevent education policies from being implemented optimally.

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The obstacles are 1) teachers' lack of knowledge of dealing with students with disabilities; 2) problems in conveying the full learning material to students; 3) the methods, media, and learning strategies which do not accommodate all students; (4) management of subjects should be modified to accommodate the needs of both ordinary students and students with disabilities; 5) students' different cognitive competences, especially those with disabilities in class; 6) applicable valuation policy; and 7) curriculum modification.

Based on these obstacles, it indicates that teachers have a very important role in achieving the success of inclusive education. The knowledge and ability of teachers to deal with students' various needs should be improved to provide interactive learning according to the conditions of students. Teachers need to be prepared both mentally and physically. As teacher credibility and professionalism are crucially needed, teachers must have academic readiness and competence. Professional development of teachers must be provided to prospective teachers. Comprehensive habituation and debriefing during teacher education will be a good start for prospective teachers to become professional teachers. The provision of materials regarding inclusive education or children with special needs is also crucial to prepare prospective teachers if later they meet students with disabilities.

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