

THE IMPACT OF KARATE EXTRACURRICULAR ON PARENT SATISFACTION IN ISLAMIC ELEMENTARY SCHOOLS

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Abstract: *The problems faced by schools related to karate extracurricular education services are students who are less active and easily bored in karate extracurricular activities. This study aims to find out: 1) Karate extracurricular education services at Fatahillah Sukoharjo Integrated Islamic Elementary School, 2) The influence of karate extracurricular education services on the level of parent satisfaction of students of Fatahillah Sukoharjo Integrated Islamic Elementary School. This study uses a quantitative method. The research was conducted at Fatahillah Sukoharjo Integrated Islamic Elementary School. Data collection techniques by documentation and questionnaire/questionnaire methods. The sampling method used a total sampling of 53 respondents. The data were analyzed using a simple linear regression analysis technique with the help of SPSS V25 software. To test the validity of the data, validity tests, reliability tests, normality tests, and linearity tests were carried out. The results of the study show that: 1) Karate extracurricular education services are in the "adequate" category with a percentage of 47%, 2) Based on the results of the calculation t , $8,905 >$ from t table 2,006 which means that the influence is significant. Furthermore, it is seen from the calculation of simple linear regression of significance level $0.00 < 0.05$ and the calculation of the confusion determination of the influence of karate extracurricular education services on the level of satisfaction of parents of students of Fatahillah Sukoharjo Integrated Islamic Elementary School by 60.9%.*

Keywords: *karate extracurricular, parent satisfaction, Islamic primary schools, student development, educational services quality.*

INTRODUCTION

Extracurricular activities are activities outside of class hours that aim to improve and hone students' knowledge, creativity, and skills. According to Lutan, extracurricular activities are the fulfilment of the learning needs of students who are under the auspices of educational units outside of extracurricular activities [1]. According to Sahan, extracurricular activities are activities under the supervision and guidance of the school that have the goal of developing students' talents and interests, cooperation, personality, abilities, and independence optimally to achieve educational goals that focus on student self-development and require student initiative in their implementation [2]–[4].

There are various kinds of learning processes in extracurricular activities in each school, including the formation of arts and skills, the formation of students' character, to the application of religious and spiritual activities that focus on the mentality of students [5], [6]. Based on research that has been conducted by Yudha, the obstacles experienced by schools in Yogyakarta in organizing extracurricular activities are the lack of coaches or trainers in extracurricular activities as well as inadequate extracurricular facilities and infrastructure [7]. Meanwhile, according to Yogi and Lusiana, the obstacles in the implementation of extracurricular activities are the management of activities that tend to be less coordinated, the absence of cooperation between teachers, students, and school principals, students are less enthusiastic about participating in extracurricular activities, and lack of funding for extracurricular activities [8], [9].

Extracurricular activities not only require an active role between coaches, teachers, funds, principals, and facilities but also require interest or desire and burn from students. If students are not interested in eating extracurricular activities, extracurricular activities will not run optimally [10], [11].

Fatahillah Sukoharjo Integrated Islamic Elementary School is one of the educational institutions under the Ar-Risalah Sukoharjo Foundation. Fatahillah Integrated Islamic Elementary School is one of the schools that has extracurricular activities in various fields, such as scout extracurriculars, swimming extracurriculars, craft arts extracurriculars, futsal extracurriculars, OSN Science extracurriculars, OSN Mathematics extracurriculars, and karate extracurricular [12], [13].

Extracurricular karate is an extracurricular that has the main goal of maintaining and protecting oneself from threats, but in addition to that, karate also has benefits, namely it can increase concentration, increase self-confidence, make friends and maintain health [14], [15]. Karate extracurricular at Fatahillah Sukoharjo Integrated Islamic Elementary School is compulsory for grade 4 students but students of other grades can also follow it with a registration system at the beginning of the school year [16], [17].

According to Ana's statement, one of the staff who manages the administration at Fatahillah Sukoharjo Integrated Islamic Elementary School, the obstacle in providing extracurricular services is the limited funds in the implementation of activities that hinder student karate extracurricular activities [18], [19]. Another problem is that students enter extracurriculars less regularly, related to students who tend to lack enthusiasm and get bored easily, so it has an impact on frequently changing extracurricular branches in one year which results in students' interests and talents not being optimally honed. The opening of extracurricular registration is only held at the beginning of the year so that students can focus on the extracurricular that has been chosen. This can also be due to the lack of follow-up for students who do not comply with the rules above [20], [21].

Based on the above presentation, shows that the karate extracurricular education service at Fatahillah Sukoharjo Integrated Islamic Elementary School has not run optimally. Educational services that are not optimal certainly have an impact on the satisfaction of parents of students who send their children to Fatahillah Integrated Islamic Elementary School. This needs attention because parental satisfaction is very important for the sustainability of an educational service provider. Therefore, the author wants to conduct further research with the title "The Effect of Karate Extracurricular Education Services on the Level of Parent Satisfaction of Students of Fatahillah Sukoharjo Integrated Islamic Elementary School".

Based on the background explanation above, the formulation of the problem in this study is as follows:

1. How are the karate extracurricular education services at Fatahillah Sukoharjo Integrated Islamic Elementary School?
2. How much influence do karate extracurricular education services have on the level of satisfaction of parents of students of Fatahillah Sukoharjo Integrated Islamic Elementary School?

LITERATURE REVIEW

Karate as an extracurricular activity in Islamic elementary schools offers several benefits for students, especially in physical and mental development that supports character building. This activity not only focuses on mastering martial techniques, but also integrates the values of discipline, courage, and self-control that are in line with character education in Islam. For parents, children's involvement in karate extracurricular activities is often an important consideration in assessing their satisfaction with the educational services provided by the school. Research on parental satisfaction with extracurricular services, particularly karate, reveals that certain aspects, such as the quality of training, instructor skills, and values taught, play a significant role in shaping positive perceptions of parents. Thus, the implementation of extracurricular activities such as karate has the potential to increase parents' satisfaction with school, because it is considered capable of having a positive impact on their children's development [20], [21].

Parent satisfaction in the context of education is an important component in assessing the quality of school services. Parents who are satisfied with extracurricular services generally show a higher level of attachment and trust in the educational institution where their child attends. In this case, karate as part of extracurricular activities is considered to be able to support the needs of children's development holistically. Many studies show that children's involvement in karate not only improves physical aspects, but also strengthens mental health, such as self-confidence, the ability to interact with peers, and social skills that are important in daily life. Furthermore, the karate approach that emphasizes emotional control and the application of ethical values is in line with the goals of Islamic education to form the character of moral character, so parents see this program as a form of positive support for children's education [20], [21].

In the context of Islamic education, karate extracurricular activities can enrich the moral values taught in the classroom through practical experience. According to research conducted by Aaron, students who are active in karate activities tend to show improvements in aspects such as discipline, responsibility, and perseverance. Strengthening this character is important in forming a solid personality following Islamic values. Karate provides space for students to internalize Islamic values that are indirectly taught through practice, for example by being respectful to the coach, maintaining ethics during practice, and practising patience when facing challenges. From the perspective of parents, this added value provides satisfaction because it is in line with their expectations for the development of Islamic character in their children [20], [21].

In addition, the quality of instructors and the training environment also affect parents' satisfaction with the karate extracurricular program in Islamic elementary schools. Instructors who are competent in the field of karate and understand the values of Islamic education can create a comfortable training atmosphere while building a healthy competitive spirit. The study by Malik found that parents whose children participated in karate extracurriculars with high-quality instructors showed greater levels of satisfaction compared to programs that were less structured or did not have competent instructors. Parents consider that the quality of the instructor plays an

important role in ensuring that children not only learn martial arts but also gain positive ethical values [22]–[24].

Overall, karate extracurriculars in Islamic elementary schools make an important contribution to parental satisfaction because it is considered a means to develop students' character as a whole. For parents, these extracurricular benefits are not only about mastering martial arts techniques but also include character building and support for religious values. Parents' satisfaction with this program can be a factor that strengthens their trust in the school as an educational institution that supports their child's growth following Islamic principles [22]–[24].

METHODOLOGY

This study uses a quantitative method. The research was conducted at Fatahillah Sukoharjo Integrated Islamic Elementary School. Data collection techniques by documentation and questionnaire/questionnaire methods. The sampling method used a total sampling of 53 respondents. The data were analyzed using a simple linear regression analysis technique with the help of SPSS V25 software. To test the validity of the data, validity tests, reliability tests, normality tests, and linearity tests were carried out [22]–[24].

Table 1. Research Methodology

Aspect	Details
Research Method	Quantitative
Research Location	Fatahillah Sukoharjo Integrated Islamic Elementary School
Data Collection Techniques	Documentation and questionnaire methods
Sampling Method	Total sampling with 53 respondents
Data Analysis Technique	Simple linear regression analysis using SPSS V25 software
Data Validity Tests	Validity test, reliability test, normality test, and linearity test

RESULTS AND DISCUSSION

The number of students who participated in karate extracurriculars in the 2023/2024 school year was 53 students. In this study, there are two variables, namely the independent variable (x) and the bound variable (y). The independent variable (x), namely karate extracurricular education services, while the bound variable (y) is parental satisfaction. These two variables were obtained based on the results of the questionnaire that had been filled in by the parents of students who participated in karate extracurriculars.

Before the researcher disseminated the questionnaire to the respondents, the researcher first conducted a trial with 5 experts. The following is a table of the results of the validity test and reliability test for the questionnaire that will be disseminated by the researcher.

Table 2. Variable Validity Test Results X

ITEM	r1	r2	r3	r4	r5	s1	s2	s3	s4	s5	$\sum s$	n(c-1)	v	ket
p1	5	5	5	5	5	4	4	4	4	4	20	20	1	high
p2	5	5	5	5	5	4	4	4	4	4	20	20	1	high
p3	5	5	5	5	5	4	4	4	4	4	20	20	1	high

p4	5	5	5	5	5	4	4	4	4	4	20	20	1	high
p5	5	5	5	5	5	4	4	4	4	4	20	20	1	high
p6	5	5	5	5	5	4	4	4	4	4	20	20	1	high
p7	5	5	5	5	5	4	4	4	4	4	20	20	1	high
p8	5	5	5	5	5	4	4	4	4	4	20	20	1	high
p9	4	5	5	5	5	3	4	4	4	4	19	20	0.95	high
p10	2	2	1	1	1	1	1	0	0	0	2	20	0.1	low
p11	5	5	5	5	5	4	4	4	4	4	20	20	1	high
p12	5	5	5	5	5	4	4	4	4	4	20	20	1	high
p13	5	5	5	5	5	4	4	4	4	4	20	20	1	high
p14	5	5	5	5	5	4	4	4	4	4	20	20	1	high
p15	5	5	5	5	5	4	4	4	4	4	20	20	1	high
p16	3	5	5	5	5	2	4	4	4	4	18	20	0.9	high
p17	5	5	5	5	5	4	4	4	4	4	20	20	1	high
p18	5	5	5	5	5	4	4	4	4	4	20	20	1	high
p19	5	5	5	5	5	4	4	4	4	4	20	20	1	high
p20	5	5	5	5	5	4	4	4	4	4	20	20	1	high

Based on the table above, it can be seen that the validity value of Aiken's that exceeds 0.6 is declared valid and those below 0.6 are declared invalid. Of the 20 statements that have been tested, there is 1 statement that is declared invalid. So, it is not included in the distribution of questionnaires for respondents.

Table 3. Variable Reliability Test Results X

Reliability Statistics	
Cronbach's Alpha	N of Items
.980	5

Based on the calculation of Cronbach's alpha that has been carried out by the researcher, it can be concluded that the value of Cronbach's alpha of $0.980 > 0.70$ is stated to be acceptable or reliable reliability.

Table 4. Results of the Variable Validity Test Y

ITEM	r1	r2	r3	r4	r5	s1	s2	s3	s4	s5	Σs	n(c-1)	v	ket
p1	5	5	5	5	5	4	4	4	4	4	20	20	1	high
p2	5	5	5	5	5	4	4	4	4	4	20	20	1	high
p3	5	5	5	5	5	4	4	4	4	4	20	20	1	high
p4	5	5	5	4	5	4	4	4	3	4	19	20	0.95	high
p5	5	5	4	5	4	4	4	3	4	3	18	20	0.9	high
p6	5	5	5	5	5	4	4	4	4	4	20	20	1	high
p7	5	5	5	5	5	4	4	4	4	4	20	20	1	high
p8	4	5	5	4	5	3	4	4	3	4	18	20	0.9	high
p9	5	4	4	5	5	4	3	3	4	4	18	20	0.9	high
p10	4	4	4	4	4	3	3	3	3	3	15	20	0.75	high

p11	5	5	4	5	4	4	4	3	4	3	18	20	0.9	high
p12	5	5	5	5	5	4	4	4	4	4	20	20	1	high
p13	4	4	4	4	4	3	3	3	3	3	15	20	0.75	high
p14	5	5	5	5	5	4	4	4	4	4	20	20	1	high
p15	5	5	5	5	4	4	4	4	4	3	19	20	0.95	high
p16	5	5	5	5	5	4	4	4	4	4	20	20	1	high
p17	5	5	5	5	5	4	4	4	4	4	20	20	1	high
p18	5	5	5	5	4	4	4	4	4	3	19	20	0.95	high
p19	5	5	5	5	5	4	4	4	4	4	20	20	1	high
p20	5	5	4	4	5	4	4	3	3	4	18	20	0.9	high
p21	4	4	4	4	4	3	3	3	3	3	15	20	0.75	high
p22	5	5	5	5	5	4	4	4	4	4	20	20	1	high
p23	5	5	5	5	5	4	4	4	4	4	20	20	1	high
p24	5	5	4	5	5	4	4	3	4	4	19	20	0.95	high
p25	5	5	5	5	5	4	4	4	4	4	20	20	1	high
p26	5	5	5	4	5	4	4	4	3	4	19	20	0.95	high
p27	5	5	4	5	5	4	4	3	4	4	19	20	0.95	high
p28	5	5	5	4	4	4	4	4	3	3	18	20	0.9	high
p29	4	4	4	4	4	3	3	3	3	3	15	20	0.75	high
p30	5	5	5	5	5	4	4	4	4	4	20	20	1	high

Based on the table above, it can be seen that the validity value of Aiken's that exceeds 0.6 is declared valid and those below 0.6 are declared invalid. Of the 30 statements that have been tested, all were declared valid. So that all are included in the distribution of questionnaires for respondents.

Table 5. Variable Reliability Test Results Y

Reliability Statistics	
Cronbach's Alpha	N of Items
.829	5

Based on the calculation of Cronbach's alpha that has been carried out by the researcher, it can be concluded that Cronbach's alpha value of $0.829 > 0.70$ is stated to be acceptable or reliable.

Data on Karate Extracurricular Education Services at SDIT Fatahillah Sukoharjo

In this study, the researcher prepared 19 items of statements about karate extracurricular education services that have been tested for validity with a score of 5 to strongly agree, 4 to agree, 3 to neutral, 2 to disagree, and 1 to strongly disagree. To find out the size of the karate extracurricular services provided by SDIT Fatahillah Sukoharjo, the researcher classified them into 3 categories, namely good, sufficient, and poor using the results of the questionnaire on karate extracurricular education services.

$$\text{Interval classes} = \frac{\text{Highest number of scores} - \text{Lowest number of scores}}{\text{Number of classifications}}$$

$$\text{Interval classes} = 95-59$$

$$3$$

$$\text{Interval classes} = 12$$

Table 6. Variable Frequency Distribution X

No	Interval Class	Frequency	Category	Percentage
1	59-71	11	Less	21%
2	72-83	25	Enough	47%
3	84-95	17	Good	32%
	Sum	53		100%

Based on the table above, it can be concluded that the karate extracurricular education services at SDIT Fatahillah Sukoharjo are included in the "Adequate" category. With proof that as many as 25 parents of students who participated in karate extracurriculars with a percentage of 47% were in the "Adequate" category.

Parent Satisfaction Data of SDIT Fatahillah Sukoharjo Students

In this study, the researcher prepared 30 items of statements about parental satisfaction that had been tested for validity with a rating of 5 to strongly agree, 4 to agree, 3 to neutral, 2 to disagree, and 1 to strongly disagree. To find out the magnitude of the satisfaction of parents of SDIT Fatahillah Sukoharjo students, the researcher classified them into 3 categories, namely satisfied, sufficient, and insufficient by using the results of the parent satisfaction questionnaire.

$$\text{Interval classes} = \frac{\text{Highest number of scores} - \text{Lowest number of scores}}{\text{Number of classifications}}$$

$$\text{Interval classes} = 150-90$$

$$3$$

$$\text{Interval classes} = 20$$

Table 7. Variable Frequency Distribution Y

No	Interval Class	Frequency	Category	Percentage
1	90-110	11	Satisfied	21%
2	111-130	28	Enough	53%
3	131-150	14	Good	26%
	Sum	53		100%

Based on the table above, it can be concluded that the karate extracurricular education services at SDIT Fatahillah Sukoharjo are included in the "Adequate" category. With proof that as many as 28 parents of students who participated in karate extracurriculars with a percentage of 53% were in the "Adequate" category.

Testing Requirements Analysis

In the test of the requirements of this research analysis, the researcher used the normality test and the linearity test.

1. Normality Test

This test aims to determine whether the distribution of data is normal or not by looking at the significance value, namely if it exceeds or is equal to 0.05, it is declared normally distributed and if it is less than 0.05, it is declared not normally distributed [25]–[27].

Table 8. Normality Test Results

One-Sample Kolmogorov-Smirnov Test		
		Unstandardized Residual
N		53
Normal Parameters ^b	Mean	.0000000
	Std. Deviation	8.52553763
Most Extreme Differences	Absolute	.073
	Positive	.062
	Negative	-.073
Test Statistic		.073
Asymp. Sig. (2-tailed)		.200 ^{c,d}
a. Test distribution is Normal.		
b. Calculated from data.		
c. Lilliefors Significance Correction.		
d. This is a lower bound of the true significance.		

Based on the table above, it can be concluded that the normality test value with the Kolmogorov-Smirnov one-sample technique has a significance value of 0.200 exceeding 0.05 which means that the residual value is normally distributed.

2. Linearity Test

This test is carried out to find out whether the model is proven to be linear or not by parametric analysis such as regression analysis after conducting a normality test that has been declared to be normally distributed [28]–[30].

Table 9. Linearity Test Results

ANOVA Table							
			Sum of Squares	df	Mean Square	F	Sig.
kepuasan * layanan	Between Groups	(Combined)	7888.731	25	315.549	4.818	.000
		Linearity	5877.372	1	5877.372	89.744	.000
		Deviation from Linearity	2011.359	24	83.807	1.280	.266
	Within Groups		1768.250	27	65.491		
	Total		9656.981	52			

Based on the table above, it is known that the significance value of 0.266 exceeds 0.05 which means that the relationship between the independent variable and the bound variable is expressed as linear.

Hypothesis Testing

The next step after conducting the prerequisite test is to test the hypothesis using a simple linear regression test, a determination coefficient test, and a t-test [31]–[33].

1. Simple Linear Regression Test

Table 10. Simple Linear Regression Test Results

ANOVA ^a						
Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	5877.372	1	5877.372	79.306	.000 ^b
	Residual	3779.609	51	74.110		
	Total	9656.981	52			
a. Dependent Variable: kepuasan						
b. Predictors: (Constant), layanan						

From the table above, it is known that the value of F is calculated = 79.306 with a significance level of 0.00 less than 0.05, then the regression model can be used to predict the participation variable or in other words there is an influence between the independent variable "karate extracurricular education services" and the bound variable "parental satisfaction" [34]–[36].

2. Coefficient of Determination Test

Table 11. Determination Coefficient Test Results

Model Summary				
Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.780 ^a	.609	.601	8.609
a. Predictors: (Constant), layanan				

From this output, it is known that the magnitude of the correlation or relationship (R) value (R) of 0.780 obtained a coefficient of determination (R square) of 0.609 which implies that the influence of the independent variable "karate extracurricular education services" on the bound variable "parental satisfaction" is 60.9% [37], [38].

3. Test T

Table 12. T-Test Results

Coefficients					
Model	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
1 (Constant)	29.779	10.425		2.857	.006
layanan	1.170	.131	.780	8.905	.000
a. Dependent Variable: kepuasan					

Judging from the standardized coefficients beta of 0.780 which had a positive effect. Furthermore, as seen from the significance, the value of sig = 0.00, 0.05 which means that the influence is significant. Then seen from the t-calculated and t-table

values, are $8.905 > 2.006$, which means that the influence is also significant [39], [40].

- 1). Looking at the results of the research after passing several tests carried out, it can be seen that the karate extracurricular education services at Fatahillah Sukoharjo Integrated Islamic Elementary School are in the "Adequate" category. Through a questionnaire containing 19 questions that were given to 53 parents of students who participated in the karate extracurricular program, the results of the karate extracurricular education service have 3 categories, namely 21% in the "Less" category, 47% in the "Adequate" category and 32% in the "Good" category.

Furthermore, based on the results of the dissemination of questionnaires for karate extracurricular education services, some items have the highest score, namely in the indicator that teachers/tutors have expertise in implementing karate extracurricular activities with a score of 234 points. Meanwhile, the item that has the lowest score is in the indicator of karate extracurricular guidebook facilities with a score of 188 points.

Karate extracurricular education services have a very important role in the sustainability of karate extracurricular activities themselves. With good service, it will make it easier for students to participate in extracurricular activities, especially in the procurement of karate guidebooks so that students who are left behind in karate extracurricular activities can at least know theoretically through the karate guidebook.

The results of this study are in line with the theory of the dimension of educational services where in addition to empathy, reliability, responsiveness, and attitude of a teacher or tutor, adequate facilities are also needed so that the extracurricular activities of karate can run in harmony with the reliability, attitude, responsiveness, and empathy of a teacher or tutor.

- 2). After going through the hypothesis testing that has been carried out, it can be concluded that there is a significant influence between karate extracurricular education services on the level of satisfaction of parents of students of Fatahillah Sukoharjo Integrated Islamic Elementary School with the results of the calculation of t count and t table, which is $8,905 > 2,006$, which means that the influence is significant. Furthermore, it is seen from the calculation of a simple linear regression of a significance level of 0.00 less than 0.05 and the calculation of the determination coefficient of the influence of karate extracurricular education services on the level of parental satisfaction of 60.9% which means that H_0 is rejected and H_1 is accepted.

The results of this study are in line with previous research, namely the research of Kiki Regiani and Dr. Sulasminten, M.Pd (2016) conducted a study on the influence of extracurricular activities and organizations on the academic learning outcomes of students at SMP Negeri 15 Surabaya, the results of the study concluded that there was an influence of extracurricular activities on the academic learning outcomes of students at SMP Negeri 15 Surabaya with an effective contribution of 98.09%.

CONCLUSION

After conducting a series of tests that have been explained in the previous chapter, conclusions can be drawn regarding the Effect of Karate Extracurricular Education Services on the Level of Parent Satisfaction of Students of Fatahillah Sukoharjo Integrated Islamic Elementary School for the 2023/2024 Academic Year, as follows: 1). The karate extracurricular education services at Fatahillah Sukoharjo Integrated Islamic Elementary School are in the "Adequate" category. Through a questionnaire containing 19 questions

that were given to 53 parents of students who participated in the karate extracurricular program, the results of the karate extracurricular education service have 3 categories, namely 21% in the "Less" category, 47% in the "Adequate" category and 32% in the "Good" category. 2). There is an effect of karate extracurricular education services on the level of parent satisfaction of students of Fatahillah Sukoharjo Integrated Islamic Elementary School with the results of the calculation of t count and t table, which is $8,905 > 2,006$, which means that the influence is significant. Furthermore, it is seen from the calculation of a simple linear regression of a significance level of 0.00 less than 0.05 and the calculation of the determination coefficient of the influence of karate extracurricular education services on the level of parental satisfaction of 60.9%. 3). 60.9% of the satisfaction of students' parents with karate extracurricular education services includes the right duration of karate, affordable karate costs, parental involvement in karate policies, preventing student quarrels, karate makes students diligent in going to mosques, karate makes students filial to parents, karate makes students active in learning, karate makes students not choose friends, good communication between parents and teachers/tutors, Parents are satisfied with the competence of the teacher/tutor, mastery of the teacher/tutor material helps students learn karate techniques, teachers/tutors receive advice, completeness of karate facilities and the school follows up on students who do not obey the rules of karate activities.

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Author Contribution

All authors contributed equally to the main contributor to this paper, some are as chairman, member, financier, article translator, and final editor. All authors read and approved the final paper.

Conflicts of Interest

The author declares no conflict of interest.

REFERENCES

- [1] T. L. Penatas, *Strategi Pembelajaran dalam sekolah*, vol. 12, no. 2. 2023, <https://doi.org/10.31219/osf.io/s9ktg>.
- [2] M. Abdullah, "Lembaga Pendidikan Sebagai Suatu Sistem Sosial (Studi Tentang Peran Lembaga Pendidikan di Indonesia Dalam Perspektif Undang-Undang Nomor 20 Tahun 2003 Tentang Sistem Pendidikan Nasional)," *Mamba'ul 'Ulum*, vol. 18, no. 1, pp. 38–48, 2022, <https://doi.org/10.54090/mu.56>.
- [3] Z. Abidin and A. Effendi, "Integritas Penghulu Dalam Pelayanan Nikah: Memotret Pelayanan Publik Pada Kantor Urusan Agama Kecamatan Sebagai Bentuk Reformasi Birokrasi," *Mamba'ul 'Ulum*, vol. 18, no. 1, pp. 1–13, 2022, <https://doi.org/10.54090/mu.57>.
- [4] M. Y. Sahan *et al.*, "Manfaat Ekstrakurikuler Jurnalistik Bagi Pengembangan Kebahasaan Siswa Kelas XI Sekolah Menengah Atas FQI Kefamenanu [Benefits of Extracurricular Journalism for Language Development of Eleventh Grade Students of FQI Kefamenanu High School]," *Jubindo J. Ilmu Pendidik. Bhs. dan Sastra Indones.*, vol. 8(1), no. April, pp. 48–60, 2023, <https://doi.org/10.32938/jbi.v8i1.4303>

-
- [5] Novita Indriyani, Heru Satria Tambunan, and Zulia Almaida Siregar, “Analisis Faktor Kepuasan Konsumen Terhadap Produk Roti Pinkan Bakery & Cake dengan Algoritma C4.5,” *Jurnal Riset Rumpun Ilmu Teknik*, vol. 1, no. 2, pp. 76–90, 2022. <https://doi.org/10.55606/jurritek.v1i2.413>.
- [6] F. N. K. I. K. A. J.A., *Layanan Lembaga Pendidikan Dalam Membangun Kepuasan Wali Murid Di Ra a1 Al-Aly Sukomoro Nganjuk*, vol. 1. JurnalPendidikanLuarSekolah., 2020, <https://journal.unesa.ac.id/index.php/jpls/index>.
- [7] S. E. Indrianjani and H. Pramono, “Kendala Kegiatan Ekstrakurikuler Olahraga di SMA Negeri 1 Randublatung Kecamatan Randublatung Kabupaten Blora,” *Indonesian Journal for Physical Education and Sport*, vol. 4, no. 1, pp. 156–167, 2023. <https://doi.org/10.15294/inapes.v4i1.51786>.
- [8] A. Along, “Jurnal Ilmiah Administrasi Publik (JIAP) Kualitas Layanan Administrasi Akademik di Politeknik Negeri Pontianak,” *Jurnal Ilmiah Administrasi Publik (JIAP)*, vol. 6, no. 1, pp. 94–99, 2020. <https://doi.org/10.21776/ub.jiap.2020.006.01.11>
- [9] S. Aprilia Ritonga, D. Octavianingrum, and N. Iswantara, “Nilai Pendidikan Karakter Religius Tari Ratoeh Jaroe pada Ekstrakurikuler MAN 1 Yogyakarta,” *IDEA: Jurnal Ilmiah Seni Pertunjukan*, vol. 17, no. 1, pp. 121–132, 2023. [Online]. Available: <https://journal.isi.ac.id/index.php/IDEA/article/view/9033>
- [10] E. Finafetrissia, A. Rohman, P. Studi, M. Pendidikan, F. Ilmu, and T. Dan, “Pengaruh Pelayanan Pendidikan Terhadap Kepuasan Peserta Didik di Smp Nurul Iman Palembang,” vol. 3, no. X, pp. 7416–7430, 2023.
- [11] M. Hasbi, “Pengaruh Kualitas Pelayanan Administrasi terhadap Kepuasan Peserta Didik di MTs Negeri 1 Model Palembang,” *Manag. J. Manaj. Pendidik. Islam*, vol. 3, no. 1, pp. 87–109, 2018, <https://doi.org/10.14421/manageria.2018.31-05>.
- [12] F. I. Aditya Kurniawan, “Analisis Faktor Faktor Yang Mempengaruhi Kepuasan Dan Loyalitas Pelanggan Terhadap Layanan Indihome Di Wilayah Telekomunikasi (Witel) Semarang,” *Industry and Higher Education*, vol. 3, no. 1, pp. 1689–1699, 2021. [Online]. Available: <http://journal.unilak.ac.id/index.php/JIEB/article/view/3845%0Ahttp://dspace.uc.ac.id/handle/123456789/1288>
- [13] A. Nurkalbi, D. Mufti, J. T. Industri, F. Teknologi, I. Universitas, and B. Hatta, “Pengukuran Tingkat Kepuasan Pelanggan Terhadap Kualitas Pelayanan Jasa Transportasi Travel Mukomuko – Padang.” pp. 2–3, 2021.
- [14] K. H. Minabari, “Pengenalan Awal Filsafat Pendidikan Islam,” *J. Kaji. Pendidik. Keislam.*, vol. 11, no. 2, pp. 185–197, 2019, <https://doi.org/10.46339/foramadiahi.v11i2.203>.
- [15] R. Dewi, D. Pristiwanti, B. Badriah, and S. Hidayat, “Pengertian Pendidikan,” *J. Pendidik. dan Konseling*, vol. 4, no. 6, 2022, <https://doi.org/10.31004/jpdk.v4i6.9498>.
- [16] M. W. H. Putra, T. W. Widiastuti, and Effendie, “Analisis Faktor-Faktor yang Memengaruhi Kepuasan Wakif terhadap Pelayanan Lembaga Wakaf,” *Al-Awqaf J. Wakaf dan Ekon. Islam*, vol. 13, no. 1, pp. 1–14, 2021, <https://doi.org/10.47411/al-awqaf.v13i1.71>.
- [17] I. H. Putri, *Pengaruh Kualitas Pelayanan Terhadap Kepuasan Siswa di Lembaga Pendidikan Primagama Gading Serpong*. Jakarta: FITK UIN Syarif Hidayatullah, 2018. [Online]. Available: <https://repository.uinjkt.ac.id/dspace/handle/123456789/43220>
- [18] M. U. Saefullah, A. Haedari, and L. Qolbi, “Model Manajemen Sarana Dan Prasarana Dalam Pelayanan Pendidikan,” *Eduprof Islam. Educ. J.*, vol. 1, no. 2, pp. 1–12, 2019, <https://doi.org/10.47453/eduprof.v1i2.19>.
- [19] Y. F. Ulfah, O. Ridhoi, and S. Sridadi, “Urgensi Keterlibatan Orang Tua Dalam Pembelajaran Daring Anak Ditinjau Dari Filsafat Pendidikan Anak Ibnu Sina,” *Mamba’ul ’Ulum*, vol. 18, no. 1, pp. 67–79, 2022, <https://doi.org/10.54090/mu.59>.
- [20] A. Rizal and A. Jalpi, “Analisis Faktor Internal Penentu Kepuasan Pasien Puskesmas Kota Banjarmasin,” *Al Ulum J. Sains Dan Teknol.*, vol. 4, no. 1, p. 1, 2018, <https://doi.org/10.31602/ajst.v4i1.1553>.
- [21] R. Rumiayati and A. Syafarudin, “Pengaruh kualitas pelayanan, bauran pemasaran, terhadap
-

-
- kepuasan nasabah bank era covid-19,” *Insight Manag. J.*, vol. 1, no. 2, pp. 32–42, 2021, <https://doi.org/10.47065/imj.v1i2.23>.
- [22] M. Darwin, *Metode Penelitian Pendekatan Kuantitatif*. Bandung: CV. Media Sains Indonesia, 2020.
- [23] S. Setiaman, “Analisis Chi-Kuadrat dan Regresi Logistik.” Sumedang. Jawa Barat, p. 32, 2020.
- [24] I. H. Yakin, *Metodologi Penelitian Kuantitatif Dan Kualitatif*. Garut: Aksara Global Akademia, 2023.
- [25] S. G. Kwak and S. H. Park, “Normality Test in Clinical Research,” *J. Rheum. Dis.*, vol. 26, no. 1, pp. 5–11, 2019, <https://doi.org/10.4078/jrd.2019.26.1.5>.
- [26] N. Khatun, “Applications of Normality Test in Statistical Analysis,” *Open J. Stat.*, vol. 11, no. 01, pp. 113–122, 2021, <https://doi.org/10.4236/ojs.2021.111006>.
- [27] M. Tsagris and N. Pandis, “Normality test: Is it really necessary?,” *Am. J. Orthod. Dentofac. Orthop.*, vol. 159, no. 4, pp. 548–549, 2021, <https://doi.org/10.1016/j.ajodo.2021.01.003>.
- [28] A. Natarajan and T. Vidick, “A quantum linearity test for robustly verifying entanglement,” *Proc. Annu. ACM Symp. Theory Comput.*, vol. Part F128415, pp. 1003–1015, 2017, <https://doi.org/10.1145/3055399.3055468>.
- [29] A. Nasar, D. H. Saputra, M. R. Arkaan, M. B. Ferlyando, M. T. Andriansyah, and P. D. Pangestu, “Uji Prasyarat Analisis,” *JEBI J. Ekon. dan Bisnis*, vol. 2, no. 6, pp. 786–799, 2024, [Online]. Available: <https://j-economics.my.id/index.php/home/article/view/187>
- [30] D. S. Wardhani and I. Nurbayanti, “Uji Linieritas Kurva Kalibrasi Deret Standar N-NH3 Pada Rentang Konsentrasi Yang Berbeda Secara Spektrofotometri,” *Bul. Tek. Litkayasa Akuakultur*, vol. 17, no. 1, pp. 5–8, 2019, <http://dx.doi.org/10.15578/blta.17.1.2019.5-8>.
- [31] V. A. Handayani and L. Hernando, “Penerapan Aplikasi Uji Hipotesis (One-Tail Dan Two-Tail) pada Data Simulasi,” *J. CoSciTech (Computer Sci. Inf. Technol.*, vol. 3, no. 2, pp. 168–174, 2022, <https://doi.org/10.37859/coscitech.v3i2.3869>.
- [32] J. E. Waluyo edy, Septian Ahmad, “Analisis data sampel menggunakan uji hipotesis penelitian perbandingan pendapatan menggunakan uji anova dan uji t,” *Ekon. Dan Bisnis*, vol. 2, no. 30218365, pp. 775–785, 2024, [Online]. Available: <https://j-economics.my.id/index.php/home/article/view/186>
- [33] V. Mandailina, D. Pramita, Syaharyddin, Ibrahim, Nurmiwati, and Abdillah, “Uji hipotesis menggunakan software jasp sebagai upaya peningkatan kemampuan teknik analisa data pada riset mahasiswa,” *J. Character Educ. Soc.*, vol. 5, no. 2, pp. 512–519, 2022, <https://doi.org/10.31764/jces.v5i2.6109>.
- [34] L. C. Zhang and T. Tuoto, “Linkage-data linear regression,” *J. R. Stat. Soc. Ser. A Stat. Soc.*, vol. 184, no. 2, pp. 522–547, 2021, <https://doi.org/10.1111/rssa.12630>.
- [35] D. Alita, A. D. Putra, and D. Darwis, “Analysis of classic assumption test and multiple linear regression coefficient test for employee structural office recommendation,” *IJCCS (Indonesian J. Comput. Cybern. Syst.*, vol. 15, no. 3, p. 295, 2021, <https://doi.org/10.22146/ijccs.65586>.
- [36] D. Maulud and A. M. Abdulazeez, “A Review on Linear Regression Comprehensive in Machine Learning,” *J. Appl. Sci. Technol. Trends*, vol. 1, no. 2, pp. 140–147, 2020, <https://doi.org/10.38094/jastt1457>.
- [37] S. Tanaka *et al.*, “The coefficient of determination is affected by the attenuation coefficient in attenuation imaging,” *Lab. Med. Int.*, vol. 2, 2023.
- [38] D. Chicco, M. J. Warrens, and G. Jurman, “The coefficient of determination R-squared is more informative than SMAPE, MAE, MAPE, MSE, and RMSE in regression analysis evaluation,” *PeerJ Comput. Sci.*, vol. 7, pp. 1–24, 2021, <https://doi.org/10.7717/peerj-cs.623>.
- [39] H. D. Siregar, M. Wassalwa, Khairina Janani, and I. S. Harahap, “Analisis Uji Hipotesis Penelitian Perbandingan Menggunakan Statistik Parametrika,” *Al Itihadu J. Pendidik.*, vol. 1, no. 1, p. 3, 2022, [Online]. Available: <https://jurnal.asrypersadaquality.com/index.php/alittihadu/article/view/44%0Ahttps://jurnal.asrypersadaquality.com/index.php/alittihadu/article/download/44/74>
-

- [40] J. H. Yam and R. Taufik, “Hipotesis Penelitian Kuantitatif,” *Perspekt. J. Ilmu Adm.*, vol. 3, no. 2, pp. 96–102, 2021, <https://doi.org/10.33592/perspektif.v3i2.1540>.