

Indonesian Journal Of Education Teaching and Learning (IJETL) ISSN. 2798-642X

IMPLEMENTATION OF TACTICAL APPROACH: ITS INFLUENCE ON STUDENTS' PHYSICAL FITNESS IN PLAYING FUTSAL

Muhammad Rama Sanjaya 1*, Oman Hadiana 2

- ¹ Muhammadiyah University of Kuningan, Indonesia
- ² Muhammadiyah University of Kuningan, Indonesia

DOI: https://doi.org/10.33222/xxxxxv4i1.780

Article Info

Article History .

Received (month) (year) Approved (month) (year) Published (month) (year)

Keywords:

Keywords: Physical Education, Physical Fitness, Futsal, Tactical Approach, Junior High School Students

Keywords: Physical Education, Physical Fitness, Futsal, Tactical Approach, Junior High School Students

Abstract

The use of tactical approaches in physical education focuses on understanding strategy and decision-making in the game, beyond mere technical skills. This study was conducted at SMPN 1 Darma with the aim of analyzing the effect of tactical approaches on students' physical fitness. The method used was an experiment with a pretest-posttest design, involving 20 futsal extracurricular students as a saturated sample. The results showed that students who were trained with a tactical approach experienced a significant increase in physical fitness, especially in the aspects of endurance, agility, and coordination. This increase was due to the active involvement of students in activities that required problem solving and decision making during the game. The implications of this study indicate that the tactical approach is effective as an alternative to physical education learning that can improve students' overall physical fitness and increase student motivation and involvement in training because of its active, challenging nature, and encourage teamwork and problem solving.

> © 2025 Muhammad Rama Sanjaya, Oman Hadiana Under the license CC BY-SA 4.0

^{□□}Correspondence address: Jl. Raya Cigugur, Kuningan, Kec. Kuningan, Kabupaten Kuningan, Jawa Barat 45511 Email: muhammadramasanjaya20@gmail.com

INTRODUCTION

Physical education plays a crucial role in developing individuals as a whole, covering physical, motoric, and health aspects through physical activity and sports. The main goal is to improve physical fitness, motor skills, and knowledge about the importance of a healthy lifestyle, in addition to building character, cooperation, discipline, and sportsmanship (Riyanto, 2020). Physical activities such as games, sports, and gymnastics play an important role in maintaining physical fitness. Physical fitness itself is defined as the body's ability to adapt to physical work that requires brain work (Lengkana & Sofa, 2017). A person with good physical fitness will be able to carry out daily tasks and sports efficiently, have high endurance, and recover quickly after activities. The importance of physical fitness is also seen in maintaining overall health, preventing disease, and improving quality of life, which is supported by regular exercise, a healthy diet, and adequate rest. In the context of futsal extracurricular activities at the Junior High School (SMP) level, physical fitness is a crucial aspect that supports performance. Futsal, a popular sport in Indonesia, involves dynamic movements such as running, kicking, maintaining balance, and requires muscle strength, cardiovascular endurance, agility, and balance to move quickly and avoid injury.

Success in futsal does not only depend on technical ability, but also on physical and tactical aspects. Measuring physical fitness is very important to determine the level of fitness of respondents (Kuncoro et al., 2024), so that if low results are found, solutions can be sought to overcome the problem. Futsal, which is played five against five on a small field, hones the technique, ball control, and speed of the players. This game also forms a player to always be ready to receive and pass the ball quickly under pressure from opponents, as well as build high ball control, cooperation, and team cohesion (Fauzan et al., 2024). This sport has grown rapidly in Indonesia since the 2000s and has become a fun medium for students because of its flexible player substitution system (Afandi et al., 2020).

In the midst of a modern lifestyle that tends to be sedentary, participation in extracurricular activities such as futsal is a solution to encourage physical activity. Physical education needs to emphasize the development of a tactical approach in futsal so that students not only master basic techniques but are also able to read the game and make the right decisions on the field. The tactical approach involves planning, decision-making, and adaptation to game situations (Adirahma, 2020). Sandra Elsafitri et al. (2025) explain that the tactical approach is a planned process to perfect game performance that combines elements of tactical conditions and skill execution. The application of a tactical approach in sports has significant benefits, such as increasing student engagement, teamwork skills, and problem-solving and adaptation skills. Players with a good tactical understanding will be able to read the game, anticipate opponent movements, and make the right decisions in a short time, so that they can optimize energy use, increase movement efficiency, and reduce the risk of injury. A good tactical approach can be an effective tool to improve players' physical fitness.

Observation results at SMPN 1 Darma showed that students experienced fatigue when playing futsal for 2 x 10 minutes, indicating a low level of physical fitness. This rapid fatigue can be caused by a lack of routine physical exercise, so that students' cardiorespiratory endurance and muscle strength have not been optimally trained. Physical fitness is very important for students in futsal games with a tactical approach because it supports physical performance and understanding of strategy. Good fitness allows students to play with high stamina, control fast movements, and think tactically throughout the match, while reducing the risk of injury and improving teamwork. Therefore, it is important to explore how a tactical approach can be applied effectively in improving physical fitness through futsal extracurricular programs. Based on the description above and the phenomena found at SMPN 1 Darma, this study is entitled "The Effect of Tactical Approaches on Physical Fitness in Futsal Extracurricular Students at SMPN 1 Darma".

RESEARCH METHOD

This study uses a quantitative method with an experimental approach and pre-test and post-test design Sugiyono (2016) to compare the

E-ISSN. 2798-642X

physical fitness levels of futsal extracurricular students at SMPN 1 Darma before and after the implementation of the tactical approach. The population of this study was all 20 futsal extracurricular students at SMPN 1 Darma. which due to their limited number, were used as the entire sample using the saturated sampling method (Suriani et al., 2023). The main instrument used was the Indonesian Physical Fitness Test (TKJI) for boys aged 13-15 years (Fathiyati et al., 2022), which includes a 50-meter running test, hanging body lift, 60second sitting position, vertical jump, and 1000-meter run, where the results will be converted into values and classified using TKJI norms. Data processing was carried out descriptively using the percentage formula $Dp=(n/N)\times 100\%$ (Sholikhah, 2016) assisted by the SPSS application, while data analysis included normality tests Sugiyono (2016), homogeneity tests, and t-tests to test the significance of the influence of tactical approaches on physical fitness.

FINDINGS AND DISCUSSION

Findings
Descriptive Test
Descriptive Statistics

Descriptive Statistics								
		Mini	Maxi		Std. Deviatio			
	N	mum	mum	Mean	n			
Pretest	20	7	12	8.95	1.468			
Posttest	20	17	22	19.60	1.501			
Valid	N20							
(listwise	e)							

The descriptive statistics reveal that the pretest scores ranged from 7 to 12 with a mean of 8.95 and standard deviation of 1.468, while the posttest results showed significantly higher scores ranging from 17 to 22, with a mean of 19.60 and standard deviation of 1.501. This substantial improvement in both the score range and average values clearly demonstrates a meaningful enhancement in performance following the intervention, with the posttest mean score being markedly higher than the pretest average and the entire score distribution shifting to a significantly higher level.

Normality Test Tests of Normality

	gorov-	-				
Smirn		Shapiro-Wilk				
Statist			Statist			
ic	df	Sig.	ic	df	Sig.	
Pretes.141	20	.200*	.933	20	.174	
t						
Postte.155	20	.200*	.934	20	.185	
st						

^{*.} This is a lower bound of the true significance.

a. Lilliefors Significance Correction

The normality tests for both pretest (p=0.174) and posttest (p=0.185) showed significance values above 0.05 in both Kolmogorov-Smirnov and Shapiro-Wilk tests, indicating normal distribution of data for both groups. Descriptive statistics demonstrate a significant improvement from pretest (M=8.95, SD=1.468) to posttest (M=19.60, SD=1.501), with the score range shifting substantially higher (from 7-12 to 17-22), clearly reflecting the intervention's effectiveness in enhancing participants' performance.

Homogeneity Test
Test of Homogeneity of Variances

i est of ito	mogener	ty or varia	HILL	•	
		Leven			
		e			
		Statisti			
		c	df1	df2	Sig.
PRETEST	Based	on.022	1	38	.884
DAN	Mean				
POSTTES	Based	on.033	1	38	.857
T	Median				
	Based	on.033	1	37.9	.857
	Median		94		
	with				
	adjusted	l df			
	Based	on.011	1	38	.918
	trimmed				
	mean				
			-		

The Levene's test results showed significance values (p-values) above 0.05 for all testing methods (based on mean, median, adjusted df, and trimmed mean), with the highest p-value being 0.918. This indicates no significant variance differences between pretest and posttest data, confirming that the homogeneity of variance assumption has been satisfied for subsequent parametric analyses.

Hypothesis Testing Paired Samples Test

Paired Differences								
				95%				
				Conf	idenc			
				e In				
			Std.	of	the			
			Erro	Diffe			Sig.	
		Std.	r	e				(2-
I	Мe	Devi	Mea	Low	Upp			taile
ä	an	ation	n	er	er	t	df	d)
Pa Prete -		.489	.109	-	-	-	19	.000
ir st -	10.			10.8	10.4	97.		
1 Postt 6	55			79	21	32		
est ()					8		

The paired samples t-test revealed statistically significant difference between pretest (M=8.95) and posttest (M=19.60) scores, with a mean difference of -10.65 (SD=0.489). The results showed a highly significant t-value of -97.328 p<0.001), with the 95% confidence interval (-10.879 to -10.421) not including zero, providing strong evidence for the remarkable improvement in scores following findings intervention. These clearly demonstrate the substantial and statistically significant impact of the treatment on participants' performance.

Discussion

The results of this study clearly show that the tactical approach has a significant influence on improving the physical fitness of extracurricular futsal students at SMP Negeri 1 Darma. This evidence is strengthened by the comparison of pretest and posttest values which produced a significant value (p <0.001) from the t-test, indicating a very significant difference after treatment. The average posttest score which increased substantially compared to the pretest is clear evidence of increased physical fitness. The tactical approach itself is a learning method that focuses on understanding the concept of playing and decision making, not just mastering basic techniques. This is in line with the views of (Adirahma, 2020) who stated that the tactical approach is more effective in increasing students' learning motivation, physical fitness, and motor skills than the traditional approach, a finding that is consistent with the results of this study. The

increase in physical fitness includes endurance, muscle strength, and agility, as measured by the Indonesian Physical Fitness Test (TKJI), vital components in futsal that require fast movement, decision making under pressure, and teamwork. Thus, the tactical approach not only sharpens students' understanding of the game situation but also indirectly increases the intensity of their physical activity, thereby improving their overall physical condition. In addition, the tactical approach also encourages students to think critically, communicate effectively, and work together in teams (Lae et al., 2024). These factors play a role in increasing student engagement, which in turn increases the volume and quality of training. Student involvement in small-sided games through a tactical approach has been shown to be effective in increasing physical capacity as well as understanding of playing tactics (Al Fian et al., 2024). Overall, the tactical approach makes futsal training more meaningful, fun, and physically and mentally challenging, making it a very effective method for improving junior high school students' physical fitness in an extracurricular context, according to the findings of this study.

CONCLUSION

Based on the results of the research that has been conducted on the Influence of Tactical Approach on Physical Fitness in Futsal Extracurricular Students of SMP Negeri 1 Darma, it can be concluded that the tactical approach has a significant influence on improving students' physical fitness. This is supported by the results of the t-test which showed a very significant difference between the pretest and posttest values (p <0.001), proving the effectiveness of this approach in fitness components such improving endurance, muscle strength, agility, coordination. The tactical approach has been proven to be able to create an active, fun, and meaningful learning environment, encouraging students to participate more optimally in physical activities.

E-ISSN. 2798-642X

AKNOWLEDGMENTS

The author would like to express his gratitude to Allah SWT for the abundance of His grace and gifts so that this research entitled "The Effect of Tactical Approach on Physical Fitness of Students of SMPN 1 Darma" can be completed properly. This research was compiled as an effort to examine the effectiveness of the tactical approach in improving students' physical fitness, especially in futsal extracurricular activities. The author realizes that the preparation of this research cannot be separated from the support, guidance, and assistance from various parties. Therefore, with full respect, the author would like to thank Mr. Dr. Oman Hadiana, M.Pd. as the supervisor who has provided guidance, direction, and very valuable input in the process of compiling this research proposal, as well as to SMPN 1 Darma who has provided permission and facilities so that this research can be carried out. The author realizes that this research still has limitations. Therefore, we greatly expect constructive suggestions and criticisms for the improvement and development of future research. Hopefully this research can provide benefits to the world of education, especially in the development of effective training methods for students in improving their physical fitness.

REFERENCES

- Adirahma, A. S. (2020). Upaya Meningkatkan Hasil Belajar Bermain Bolabasket Melalui Penerapan Pendekatan Taktis Pada Peserta Didik Sma di Sukoharjo. *Jurnal Kejaora (Kesehatan Jasmani dan Olah Raga)*, 5(1), 72–78. https://doi.org/10.36526/kejaora.v5i1. 839
- Al Fian, M. I., Sudarmono, M., Annas, M., & Abdulaziz, M. F. (2024). Pengaruh Small Sided Games dan Rondo Terhadap Kemampuan Passing Futsal

- MAN Tegal. *Indonesian Journal for Physical Education and Sport*, 5(2), 763–773.
- Fathiyati, T. N., Permana, R., & Saleh, Y. T. (2022). Instrumen Tes Literasi Jasmani Domain Kompetensi Fisik untuk Siswa Sekolah Dasar. *Jurnal Ilmu Keolahragaan Undiksha*, 10(1), 17–23. https://doi.org/10.23887/jiku.v10i1.43 287
- Fauzan, M. G., Rahmat, A., & Carsiwan, C. (2024). Pembelajaran Media Audio Visual Dalam Penjas Systematic Literatur Review. *Jurnal Penjaskesrek*, 11(1), 30–43. https://doi.org/10.46244/penjaskesrek. v11i1.2586
- Kuantitatif, P. P. (2016). Metode Penelitian Kunatitatif Kualitatif dan R&D. *Alfabeta, Bandung*.
- Kuncoro, A., Rohmah, L. N., Sudari, S., Pamungkas, H., & Agyanur, S. (2024). Analisis Tingkat Kebugaran Jasmani Siswa di SMP Mutiara Harapan. *Jurnal Kejaora (Kesehatan Jasmani Dan Olah Raga)*, 9(2), 257–266. https://doi.org/10.36526/kejaora.v9i2. 4116
- Lae, K., Wali, C. N., & Boru, M. J. (2024).

 Pengaruh Latihan Berbasis Metode
 Small Sided Games Untuk
 Meningkatkan Keterampilan Passing
 Menggunakan Kaki Bagian Dalam
 Permainan Sepak Bola. *Jurnal Sport & Science* 45, 6(2), 42–53.
- Lengkana, A. S., & Sofa, N. S. N. (2017). Kebijakan Pendidikan Jasmani dalam Pendidikan. *Jurnal Olahraga*, *3*(1), 1–12. https://doi.org/10.37742/jo.v3i1.67
- Program Studi Pendidikan Jasmani, Kesehatan, Rekreasi dan Keolahragaan, Fpiek, Ikip Budi Utomo Malang, Afandi, A., Faisal, M.,

E-ISSN. 2798-642X

- & Program Studi Pendidikan Jasmani, Kesehatan, Rekreasi dan Keolahragaan, Fpiek, Ikip Budi Utomo Malang. (2020).Upaya Meningkatkan Teknik Juggling Permainan Futsal Dengan Media Alat Bantu. Jurnal Porkes, 3(2). https://doi.org/10.29408/porkes.v3i2.3 005
- Riyanto, P. (2020). Kontribusi aktifitas fisik, kebugaran jasmani terhadap hasil belajar pendidikan jasmani. *JPOE*, 2(1), 117–126. https://doi.org/10.37742/jpoe.v2i1.31
- Sandra Elsafitri, M. Sigit Saksono, Jarwono, Silitonga, F., Sermadatar Felik Leandro, & Sermadatar Muhamad Andre Nuralam. R. (2025). Bela Diri

- Taktis Taruna Akmil Dalam Upaya Peningkatan Kualitas SDM Dalam Aspek Pertahanan Negara. *JURNAL MAHATVAVIRYA*, *12*(1), 1–7. https://doi.org/10.63824/jmp.v12i1.28
- Sholikhah, A. (2016). Statistik deskriptif dalam penelitian kualitatif. *KOMUNIKA: Jurnal Dakwah Dan Komunikasi*, 10(2), 342–362.
- Suriani, N., Risnita, & Jailani, M. S. (2023). Konsep Populasi dan Sampling Serta Pemilihan Partisipan Ditinjau Dari Penelitian Ilmiah Pendidikan. *Jurnal IHSAN: Jurnal Pendidikan Islam*, *1*(2), 24–36. https://doi.org/10.61104/ihsan.v1i2.55