## Empowering Student Engagement and Academic Actievement in Physical Education Classes After COVID-19: Integration of Three Teaching Models

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## ABSTRACT

This study aims to analyze the effects of tactical game moder (TGM) and ever which gmodel (PTM) in increasing student engagement and academic achievement the true exterimental method with a 10-week randomized controlled design was adopted in this stude of 4 sudents were allocated into experimental class 1 (TGM, n = 18, 19.60  $\pm$  1.17 years, experimental class 2 (PTM, n = 18, 20.00  $\pm$  1.05 years) and control class (traditional to =18, 10.00  $\pm$  1.43 years). The instrument in this research used the student engagement quotionnaire to arsess student engagement in PE classes, while semester exam scores were used as academic achievement instruments. The results of the Student's paired t-test, we observed that participants in TGM, PTM and CC experienced significant differences from pre- to put-test scores on student' engagement and academic achievement (all, p < 0.05). Meanwhile, results show that there is a significant effect of time, group and time\*group interaction on student' engagement (all, p < 0.05), and academic achievement (all, p < 0.05). Conclusions: Thus, we highlight the application of TGM and PTM in PE classes is important to improve students' levels of engagement and academic achievement.

**Keywords:** Tactical game model, peer teaching model, engagement, academic achievement, physical education