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Improving Psychomotor Skills of Fashion Design Students through Project-Based Learning in Knitting Technique Material

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Sections Info	ABSTRACT 7
Article history:	Objective: This research investigates how applying the Project-Based
Submitted: May 12, 2025	Learning (PjBL) approach affects students' cognitive performance in the
Final Revised: June 20, 2025	subject of product creation using knitting techniques in Grade XI Fashion
Accepted: June 21, 2025	Design at VHS 8 Surabaya. Method: This The study utilized the Classroom
Published: June 30, 2025	Action Research (CAR) approach, conducted across three cycles that included
Keywords:	the stages of planning, execution, observation, and reflection. Data collection
Knitting Technique;	was carried out through observational methods and performance-based
Project-Based Learning;	assessments. The data were then analyzed using descriptive quantitative
Psychomotor Learning Outcomes;	methods to evaluate the effectiveness of the learning implementation and the
Textile Learning.	enhancement of students' psychomotor skills. Results: The findings
in the second	indicated that the application of the PjBL model was rated as "Good,"
「日本論論」「日」	covering both student and teacher activities in collaboratively designing,
A 100 100 100 100	conducting, and evaluating the project. Students' psychomotor learning
	outcomes significantly improved, with average scores increasing from 77.5 in
ALLENGING M	Cycle I to 87.5 in Cycle III. The student passing rate also rose markedly, from
	15.6% to 87.5%. Novelty: What sets this research apart is its contextual
in the same of	emphasis on knitting techniques in the fashion domain, highlighting
	psychomotor skills - an element that has frequently been neglected in earlier
	studies. Moreover, this study reinforces the relevance of the PjBL model in
	supporting the Merdeka Curriculum, which emphasizes the strengthening of
	technical skills, student independence, and creativity in vocational education.

INTRODUCTION

Indonesian education is continuously evolving to meet global dynamics, the challenges of Industry 4.0, and the rising complexities of labor market demands. The Merdeka Curriculum was introduced to address these challenges by granting teachers and students the autonomy to choose learning approaches that suit their needs, while focusing on strengthening 21st-century competencies, including critical thinking, innovation, teamwork, and effective communication (Darmawan & Winataputra, 2020). Within vocational schools, especially in the Fashion Design program, mastering hands-on skills like knitting is critically essential for student competence. However, learning activities in this context are still predominantly conventional and lack contextual relevance, which reduces learners' participation and prevents them from effectively mastering practical abilities.

To address this issue, Project-Based Learning (PjBL) offers a fitting solution, aligning well with the core values promoted in the Merdeka Curriculum. PjBL facilitates active and meaningful learning through authentic projects that encourage students to plan, collaborate, and reflect throughout the learning process (Afzal & Tumpa, 2025; Omelianenko & Artyukhova, 2024; Williamson, 2024). This approach has been proven to

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