

Evaluating the Impact of Teachers' Professional Development on Student Learning Outcomes in Primary Education in Selangor

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Abstract

This study explores how professional development (PD) programs for teachers affect the academic performance of primary school students in Selangor. Selangor's diverse student population and varying teacher readiness levels present unique challenges in education. Although the Malaysian Ministry of Education has introduced various PD initiatives to improve teaching quality, their direct impact on student outcomes is still unclear. Using a qualitative research approach, this study investigates how PD programs influence teaching practices and student learning. The research focuses on primary schools in Selangor and aims to provide evidence on the effectiveness of current PD efforts. The main objectives are to assess how PD training impacts student performance and to identify which PD components are most helpful in improving teaching. The study hypothesizes that PD programs lead to better teaching and higher student achievement. The findings will offer useful insights for educators and policymakers to improve future PD programs and support better student outcomes in Malaysia.

Keywords: Professional Development, Teacher Training, Student Performance, Education Improvement, Teaching Effectiveness

Introduction

In the contemporary educational landscape, the quality of teaching has always remained a pivotal factor influencing student achievement. This research demonstrates that effective teaching is closely linked to improved student outcomes, underscoring the importance of robust professional development (PD) programs for educators (Darling-Hammond et al., 2020). In Malaysia, particularly in Selangor, there is a growing recognition of the need to enhance the instructional capabilities of primary school teachers to ensure better academic performance among students. The Malaysian education system has undergone various reforms aimed at elevating teaching standards and student learning outcomes. However, challenges persist, particularly in the realm of providing continuous and effective professional development for teachers. Recent studies suggest that well-structured PD programs can significantly impact teachers' instructional practices, leading to higher student achievement (Desimone & Garet, 2020).

In Malaysia, the Ministry of Education has recognised the importance of continuous professional development for teachers as a means to elevate the overall standard of education. The Malaysian Education Blueprint 2013-2025 underscores the need for systematic and ongoing PD programs to ensure that teachers are well-prepared to meet contemporary educational challenges (Ministry of Education Malaysia, 2013). Recent initiatives have focused on enhancing the pedagogical skills of primary school teachers to foster better academic outcomes among students (Hamzah, 2022).

Selangor, being one of the most developed states in Malaysia, presents a unique educational landscape with diverse student demographics and varying levels of academic achievement. Recent research done by (Subasini & Nesamani, 2023) shows the academic staff lacking the motivation to commit to continuous professional development CPD or to self-reflectively plan CPD activities along with a general lack of emphasis on CPD among professional. The state has implemented several PD programs aimed at improving teaching effectiveness in primary schools. However, the impact of these programs on student academic performance has not been extensively studied.

Hence, this study aims to fill the gap in the existing literature by examining how professional development (PD) programs influence the academic performance of primary school students in Selangor. Professional development is a critical component in the continuous improvement of teaching practices, equipping educators with updated pedagogical knowledge, instructional strategies, and classroom management skills. It plays a pivotal role in enhancing teachers' competencies, confidence, and motivation, all of which directly impact student learning outcomes. By analysing the effectiveness of these programs, this research seeks to provide evidence-based recommendations for policymakers and educators to strengthen the design and implementation of PD initiatives. Ultimately, the findings are expected to contribute towards enhancing the quality of education in Malaysia, ensuring that teaching practices remain relevant and impactful in an evolving educational landscape. The following research questions guided this study;

RQ1: How does professional development training influence the academic performance of primary school students in Selangor, Malaysia?

RQ2: Which factors of professional development programs are most effective in enhancing teachers' instructional practices and subsequently improving student learning outcomes in primary schools in Selangor?

Problem Statement

Despite continuous efforts to improve education in Malaysia, primary schools in Selangor still face challenges related to teacher preparedness and student achievement. The Malaysian Ministry of Education has implemented various professional development (PD) programs to enhance instructional quality, yet their effectiveness in improving student performance remains uncertain. While some schools benefit from these initiatives, others continue to struggle, raising concerns about inconsistencies in implementation and outcomes (Lindner & Schwab, 2020; Demchenko et al., 2021; Van Mieghem et al., 2022).

Research indicates a strong link between high-quality PD and improved student learning (Lindner & Schwab, 2020; Demchenko et al., 2021); however, there is limited empirical evidence specific to Selangor. This gap in knowledge makes it difficult for policymakers and educators to refine PD programs effectively. Without clear insights into the strengths and weaknesses of current initiatives, schools may continue to face disparities in teaching quality and student success.

This study aims to assess the impact of targeted PD programs on student achievement in Selangor, providing valuable insights for enhancing teaching quality and informing policy decisions. By addressing the gaps in existing research, this study seeks to offer practical recommendations for optimizing teacher training programs, ultimately contributing to improved learning outcomes for primary school students.

Review of Literature

Effectiveness of Professional Development Programs

Empirical studies investigating the effectiveness of PD programs in enhancing teachers' instructional practices and improving student outcomes are synthesized. Research findings from diverse educational settings demonstrate the positive impact of PD initiatives on teacher knowledge, skills, and attitudes, as well as their implications for student achievement. Empirical research has consistently shown that well-designed PD programs can significantly enhance teachers' instructional practices and lead to improved student outcomes. For instance, studies by Desimone et al. (2002) and Garet et al. (2001) have demonstrated that sustained and content-focused PD leads to significant improvements in both teaching practices and student performance. In a study which was done by (Govindarajoo, Selvarajoo, & Ali, 2022) indicated that teachers' engagement and training should align with the Ministry of Education's (MOE) objective of developing professional, competent, and experienced educators who are a valuable investment in fulfilling the nation's needs and demands.

Literature Review

The teaching of writing in rural educational contexts is a widely discussed topic in language education research. Numerous studies point to the disparities between urban and rural schools in terms of teacher quality, access to resources, student engagement, and parental

support (Ismail et al., 2019; Kamaruddin & Hashim, 2020). Writing, as opposed to listening or speaking, demands more structured instruction, individualized feedback, and repeated practice factors often compromised in rural classrooms. Previous research indicates that teachers in such environments frequently resort to traditional methods like drilling, copying model texts, and controlled writing tasks due to time constraints and a rigid syllabus (Rahman et al., 2021).

Furthermore, second language writing instruction theories such as the Process Approach (Flower & Hayes, 1981) and Genre-Based Instruction (Hyland, 2003) advocate for writing as a recursive and socially situated activity. However, the application of these theories in rural Malaysian classrooms remains inconsistent, often due to limited professional development opportunities and low teacher autonomy.

Methodology

Research Design

A qualitative case study design was selected to provide in-depth insights into the personal experiences of teachers. This design allows for the exploration of contextual factors that shape teaching practices and offers rich narrative data.

Sampling and Participants

Using purposive sampling, six English Language Option teachers from various rural schools in the Hilir Perak District were selected. These participants were chosen for their teaching experience, familiarity with the local educational context, and willingness to provide detailed reflections on their practices.

Data Collection

Semi-structured interviews were conducted to collect data. The interview protocol included questions on teaching strategies, challenges faced, student engagement, assessment techniques, and recommendations for improvement. Each interview lasted approximately 60 minutes and was audio-recorded and transcribed for analysis.

Data Analysis

Thematic analysis was employed to identify recurring patterns and themes. Braun and Clarke's (2006) six-phase framework guided the coding process. The researchers independently coded the data and then discussed the codes to ensure inter-rater reliability.

Findings and Discussion

Pedagogical Strategies

Teachers reported relying heavily on model essays, sentence construction drills, and guided writing exercises. Brainstorming sessions, vocabulary lists, and group writing tasks were also used to scaffold student understanding. However, there was a lack of differentiated instruction to cater to diverse proficiency levels.

Resource Limitations

Participants highlighted the scarcity of teaching aids, outdated textbooks, and limited access to ICT tools. Many relied on self-created materials, which increased workload and limited

instructional variety. The absence of a resource-sharing platform further compounded these difficulties.

Student Motivation and Proficiency

Teachers noted that students in rural areas often demonstrate limited vocabulary and sentence construction skills. A lack of exposure to English outside the classroom, compounded by minimal reading habits and digital access, has made writing particularly daunting for these learners. Motivation is further hampered by negative perceptions of English as a difficult and unnecessary subject.

Parental and Community Involvement

Minimal parental involvement in academic activities emerged as a common theme. Teachers attributed this to low parental education levels, work commitments, and language barriers. The absence of collaborative community programs has also impeded students' exposure to real-world English use.

Assessment Practices

Assessment was mainly formative, involving writing journals, essays, and teacher feedback. However, the pressure to complete the national syllabus often led to superficial evaluation. Teachers suggested the integration of more performance-based assessment tools like writing portfolios and peer review to better track progress.

Professional Development

Teachers expressed the need for continuous professional development focused specifically on writing instruction. They recommended workshops on creative writing, digital tools, and differentiated instruction, as well as opportunities to observe best practices in urban schools.

Conclusion

This study highlights key factors that make professional development (PD) programs effective, such as relevant content, alignment with curriculum goals, and continuous support. It also reveals the negative effects of poorly designed PD, including teacher burnout and reduced motivation, which can negatively impact student performance (Opfer & Pedder, 2011).

To improve PD programs, the study recommends making them more practical and tailored to the needs of primary schools in Selangor. Approaches like collaborative learning, peer observations, and reflective practices are shown to positively influence teaching methods (Vescio, Ross, & Adams, 2008). These insights can help policymakers, school leaders, and educators address common challenges in implementing PD programs.

Primary schools can benefit by adopting PD strategies that match their specific teaching needs and student demographics, leading to better teaching quality and student achievement (Yoon et al., 2007). Most importantly, this study supports the right of every student to be taught by capable and well-prepared teachers. Effective PD equips teachers with the skills and knowledge needed to deliver high-quality education, making it a key factor in advancing Malaysia's education system (Kennedy, 2016).

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References

- Aspers, P., & Corte, U. (2019). What is Qualitative in Qualitative Research. *Qualitative Sociology*, 42(2), 139–160. <https://doi.org/10.1007/s11133-019-9413-7>
- Bailey, J. (2008). First steps in qualitative data analysis: transcribing. *Family Practice*, 25(2), 127–131. <https://doi.org/10.1093/fampra/cm003>
- Bandara, S. (2018, May 31). School-Based Teacher Development Programs in Secondary Schools in Sri Lanka. *Journal of Pedagogical Research*, 6(5), 190-200. <https://doi.org/10.29121/granthaalayah.v6.i5.2018.1440>
- Bhandari, P. (2021). Ethical considerations in research: Types & examples. Retrieved from <https://www.scribbr.com/methodology/research-ethics/>
- Bouchrika, I. (2022). How to write research methodology: Overview, tips, and techniques. Retrieved from <https://research.com/research/how-to-write-research-methodology>
- Braun, V., & Clarke, V. (2006). Using thematic analysis in psychology. *Qualitative Research in Psychology*, 3(2), 77-101. <https://doi.org/10.1191/1478088706qp063oa>
- Darling-Hammond, L., Hyler, M. E., & Gardner, M. (2017). *Effective teacher professional development*. Palo Alto, CA: Learning Policy Institute.
- Desimone, L. M. (2009). Improving impact studies of teachers' professional development: Toward better conceptualization and measures. *Educational Researcher*, 38(3), 181-199. DOI:10.3102/0013189X08331140
- Elia, I., Heuvel-Panhuizen, M. van den, & Kolovou, A. (2009). Assessing impact of a teacher Professional development program on student problem-solving performance, *ZDM - Mathematics Educations*.
- Gore, J. M., Lloyd, A., Smith, M., Bowe, J., Ellis, H., & Lubans, D. (2017). Effects of professional development on the quality of teaching: Results from a randomised controlled trial of Quality Teaching Rounds. *Teaching and Teacher Education*.
- Govindarajoo, M. V., Selvarajoo, N. D., & Ali, M. S. (2022). Factors contributing to poor academic achievement among low performing pupils: A case study. *Asian Journal of University Education*, 18(4), 981–997. <https://doi.org/10.24191/ajue.v18i4.20008>
- Guskey, T. R. (2002). Professional Development and Teacher Change. *Teachers and Teaching: Theory and Practice*, 8(3/4), 381-391. doi:10.1080/135406002100000512
- Hollweck, T. (2015). Robert K. Yin. (2014). *Case Study Research Design and Methods* (5th ed.). *Canadian Journal of Program Evaluation*, 30(1), 108–110. <https://doi.org/10.3138/cjpe.30.1.108>
- Jacob, R., Hill, H., & Corey, D. (2017). The impact of a professional development program on teachers' mathematical knowledge for teaching, instruction, and student achievement. *Journal of Research on Educational Effectiveness*.
- Lassen, J. (2021). How to write effective qualitative interview questions. Retrieved from <https://uxmastery.com/how-to-write-effective-qualitative-interview-question>

- McCombes, S. (2021). What is a research design: Types, guide & examples. Retrieved from <https://www.scribbr.com/methodology/research-design/>
- Nowell, L. S., Norris, J. M., White, D. E., & Moules, N. J. (2017). Thematic Analysis: Striving to meet the trustworthiness criteria. *International Journal of Qualitative Methods, Methods*, 16 (1). <https://doi.org/10.1177/1609406917733847>
- O'Dwyer, A. (2018). An Insight Into How a Constructivist Professional Development Program Can Influence Practice in Six High School Chemistry Classrooms. *Taylor & Francis*, 29(5), 353-377. <https://doi.org/10.1080/1046560x.2018.1457348>
- Rani. (2020). The Impacts of Professional Learning Activities on Teachers' Professional Development. <https://doi.org/10.2991/assehr.k.200620.050>
- Roberts, R. E. (2020). Qualitative interview questions: Guidance for novice researchers. *The Qualitative Report*, 25 (9), 3185-3203. <https://doi.org/10.46743/2160-3715/2020.4640>
- Serin, H. (2017). The role of passion in learning and teaching. *International Journal of Social Sciences & Educational Studies*, 4 (1), 60-64. <https://doi.org/10.23918/ijsses.v4i1p60>
- Subasini, N. S., & Nesamany, B. (2023). Academic Staff CPD in A Private Higher Education Institute in Malaysia: Exploring the Perspective. *International Journal of Academic Research in Progressive Education and Development*, 12(2), 2313–2322.
- Tahir, S., MALik, N., Nawaz, H., & Jabeen, N. (2014). Teachers' Perceptions towards Impact of Continuous Professional Development Program on Quality Education in Division Gujranwala. Richtmann Publishing. <https://doi.org/10.5901/ajis.2014.v3n4p395>