

Dec 02, 2025

Digital Minds at Work: A Systematic Review of How Psychological Factors Shape Teacher Performance and Motivation in the Tech Era

DOI

<https://dx.doi.org/10.17504/protocols.io.36wgqpx7yvk5/v1>

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DIGITAL MINDS AT WORK



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Protocol Citation: Cunanan, Daisy Mae, Maglasang, Irish G., Mamaril, Hazzel Love, Lapiz, Laidy Grace L., Ocio, Meljun J., Mentero, Marlon S., Miraluna, Herrera L., PhD 2025. Digital Minds at Work: A Systematic Review of How Psychological Factors Shape Teacher Performance and Motivation in the Tech Era. **protocols.io**

<https://dx.doi.org/10.17504/protocols.io.36wggpx7yvk5/v1>

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Protocol status: In development

We are still developing and optimizing this protocol

Created: December 02, 2025

Last Modified: December 02, 2025

Protocol Integer ID: 233966

Keywords: psychological factors shape teacher performance, psychological forces shape teacher, teacher effectiveness, digital classroom, pedagogical skill, motivation in the tech era, digital minds at work, teaching profession, teacher, educational technology, teaching profession in profound way, psychological factors such as motivation, motivation, digital assessment system, digital mind, rapid rise of educational technology, online class, resilience, psychological factor, emotional intelligence, efficacy, work in technology

Abstract

The rapid rise of educational technology has changed the teaching profession in profound ways. It has transformed not only how teachers deliver instruction, but also the psychological world they must navigate every day. Over the past decade—especially during and after the COVID-19 pandemic—teachers have had to adjust to online classes, blended learning setups, digital assessment systems, and data-driven decision-making. These shifts have revealed an important truth: teacher effectiveness is no longer based solely on pedagogical skill. It is now closely tied to psychological factors such as motivation, emotional intelligence, resilience, self-efficacy, and adaptability. Understanding these elements is essential to making sense of how teachers perform and stay motivated in our increasingly digital classrooms. For this reason, this systematic review aims to bring together research across these areas to show how psychological forces shape teachers' work in technology-rich environments.

1.4 Why it is important to do this review

- 1 This review is important because the rapid shift to digital learning has created new challenges for teachers, affecting not just how they teach but also their motivation, well-being, and ability to adapt. While technology offers opportunities to enhance learning, it also brings emotional, cognitive, and motivational demands that can impact teacher performance and job satisfaction. Understanding how psychological factors—such as self-efficacy, motivation, emotional intelligence, resilience, and adaptability—influence teachers in digital classrooms is crucial for supporting their effectiveness.
- 2 Although many studies examine these psychological factors individually, research on how they interact in technology-rich teaching environments is limited. Similarly, evidence on interventions—like mentoring, professional learning communities, and growth mindset training—has not been systematically gathered, making it hard for educators and policymakers to develop programs that truly meet teachers' needs.
- 3 By reviewing and synthesizing existing research, this study aims to provide a clear picture of how psychological factors shape teacher performance and motivation in digital contexts. The findings can guide professional development, support programs, and school policies, ensuring teachers are prepared, resilient, and effective in the rapidly evolving digital era.

2. Inclusion and Exclusion Criteria

- 4 For this systematic review, inclusion and exclusion criteria were established to ensure the selection of relevant studies. Included studies focus on teachers in technology-enhanced classrooms, examine psychological factors such as motivation, resilience, or emotional intelligence, and report outcomes related to performance, well-being, or burnout. Studies not addressing teachers, lacking a psychological or digital context, or without relevant outcomes were excluded. These criteria ensure a focused and rigorous synthesis of evidence.
- 5 **PICO Formatted Inclusion and Exclusion Criteria**
Population (P): Inclusion Criteria: ICT teachers in basic education, higher education, or professional training contexts. Exclusion Criteria: Studies focusing solely on students without reference to teachers.
Intervention (I): Inclusion Criteria: Use of technology integration in the workplace or classroom. Psychological constructs related to teacher performance, motivation, stress, job satisfaction, or engagement. Exclusion Criteria: Studies not involving psychological constructs or technology integration.
Comparison (C): Inclusion Criteria: Not explicitly required; studies may or may not include comparison groups.

Outcome (O): Inclusion Criteria: Quantitative data on psychological constructs (e.g., scores, means, SDs, frequencies). Use of validated instruments (e.g., Likert-scale surveys, structured inventories). Analysis using descriptive or inferential statistics (e.g., t-test, ANOVA, regression, SEM). Exclusion Criteria: No explanation of scoring or measurement approach. Studies lacking quantitative data or statistical analysis. Design (S): Inclusion Criteria: Quantitative research designs (descriptive, correlational, quasi-experimental, experimental, survey-based).

6 Initial Screening (Eligibility Stage)

All retrieved articles must meet all of the following quantitative eligibility criteria to proceed to the Quality Appraisal Stage.

References

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Research Design Framework	Quantitative research designs (descriptive, correlational, quasi-experimental, experimental, survey-based).	None
Variables in the Study	- Psychological constructs related to teacher performance, motivation, stress, job satisfaction, or engagement. - Studies linking these variables with technology integration in the workplace or classroom.	Studies measuring only student outcomes without reference to teachers.
Population and Sampling	Studies involving ICT teachers (basic education, higher education, or training professionals).	None
Instruments Used	Studies using structured, standardized, or validated quantitative tools (e.g., Likert-scale surveys, standardized psychological scales, motivation/engagement inventories).	None
Quantification and Scoring	Studies reporting numerical data (scores, percentages, means, standard deviations, frequencies, correlations, regressions).	No explanation of scoring or measurement approach.
Data Analysis	Studies using descriptive statistics (mean, frequency, percentage) and/or inferential statistics (t-test, ANOVA,	None

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