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# Purpose and Performance: The Direct Impact of Psychological Well-Being on Academic Outcomes in University Students

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**ABSTRACT:** Psychological well-being (PWB) is increasingly recognized as a critical determinant of academic success. Despite extensive focus on cognitive and behavioral predictors, the direct role of PWB particularly its multidimensional aspects remains underexplored. This study investigates whether PWB directly predicts academic performance among university students, independent of motivational mediators. A cross-sectional survey was conducted with 365 undergraduate students across various disciplines. Ryff's 42-item Psychological Well-Being Scale was used to assess PWB, while academic outcomes were measured through self-reported GPA and the Utrecht Work Engagement Scale-Student Version (UWES-S). Data were analyzed using confirmatory factor analysis and multiple regression techniques. Findings indicate that PWB significantly predicts both GPA ( $\beta = 0.35$ , p < .001) and academic engagement ( $\beta$  = 0.40, p < .001). Subdimensions such as purpose in life and self-acceptance emerged as the most influential predictors. The model demonstrated strong construct validity (CFI = 0.94; RMSEA = 0.045). These results suggest that PWB operates as a direct driver of academic outcomes and not merely as a background variable or a mediator via motivation. Psychological well-being is a robust and independent predictor of academic performance. Interventions that enhance purpose in life and selfacceptance could significantly benefit student achievement. These findings advocate integrating well-being into academic support strategies, indicating a shift in how educational success is conceptualized.

**Keywords:** Psychological Well-Being, Academic Performance, GPA, Student Engagement, Ryff Scale, Higher Education.



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#### **INTRODUCTION**

The integration of psychological well-being into higher education contexts is increasingly recognized as a fundamental component that influences student experiences and outcomes. In

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academic environments, psychological well-being is associated with academic engagement, motivation, and overall academic performance, underlining its role as a crucial determinant of success. Studies suggest that positive psychological states may foster resilience against stressors inherent in academic life and enhance students' capacities for learning and performance (Agha et al., 2023; Reuter & Forster, 2021). High levels of well-being can lead to improved attention and cognitive functioning, driving higher academic success, whereas lower levels have been linked to increased dropout rates and poor academic outcomes (Kilgore et al., 2023).

Ryff's Psychological Well-Being Model presents a comprehensive framework applicable in academic settings, addressing dimensions such as self-acceptance, personal growth, purpose in life, positive relations with others, autonomy, and environmental mastery (Boehm, 2021; Miller, 2023). This model underscores the multifaceted nature of well-being, emphasizing that enhancing psychological well-being in students involves supporting their emotional, relational, and cognitive development, which collectively contributes to an enriched learning environment. In practice, institutions may implement programs focusing on mindfulness, community building, and support systems that cater to diverse student needs, thus bolstering psychological well-being as a strategic priority (Agha et al., 2023).

The dimensions of psychological well-being that correlate most significantly with academic performance include self-acceptance, the ability to set and achieve personal goals, and the quality of interpersonal relationships (Agha et al., 2023; Miller, 2023). Research indicates that these facets facilitate better coping strategies under academic pressure and foster an environment conducive to both personal and academic growth (Kabrita & Hajjar-Muça, 2016). For instance, students who display high levels of self-acceptance and positive relations with peers often exhibit higher GPAs due to increased engagement in collaborative learning environments (Reuter & Forster, 2021). Additionally, the cultivation of a sense of purpose may further energize students' academic pursuits, linking psychological well-being directly to academic outcomes (Boehm, 2021).

The concept of academic success has evolved to include non-cognitive predictors such as emotional intelligence, resilience, and social well-being, reflecting a more holistic understanding of what it means to succeed in higher education (Gudmundsson et al., 2020). Modern research has highlighted that attributes such as grit, perseverance, and emotional regulation play critical roles in not only improving GPA but also enhancing the overall educational experience (Hui et al., 2020). This shift necessitates educational policies that support emotional and psychological development alongside traditional academic metrics, recognizing that academic performance is not solely a function of cognitive ability or knowledge (Lederer et al., 2024).

Empirical studies have sought to clarify the distinction between mental health and psychological well-being among students. Mental health typically refers to the absence of mental disorders and a condition marked by emotional stability, while psychological well-being encompasses a broader spectrum of positive psychological states, including life satisfaction and personal fulfillment (Boehm, 2021). Notably, research indicates that while students may experience mental health challenges, they can still maintain positive psychological well-being through effective coping strategies and supportive environments (Mayer & Smith, 2019). A comprehensive understanding

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of these distinctions is essential for developing interventions targeting student populations and promoting a positive psychological culture in universities (Shostak et al., 2021).

Evidence supporting a direct link between well-being and GPA exists, indicating that students with higher levels of well-being often achieve better academic results (Shostak et al., 2021). For example, studies have shown that subjective well-being positively correlates with academic performance metrics, affirming the premise that psychologically resilient students can manage academic pressures more effectively, leading to better outcomes (Agha et al., 2023; Kilgore et al., 2023). Such findings underscore the importance of fostering mental wellness initiatives within educational institutions, as these not only enhance GPA but also contribute to a richer, more engaging academic experience for students (Rijavec et al., 2018).

Understanding the intricate relationships among psychological well-being, academic performance, and non-cognitive factors reflects a paradigm shift in higher education research that prioritizes holistic student success. Interventions grounded in promoting psychological well-being are essential for fostering environments where students not only excel academically but also thrive personally, equipping them with the necessary skills and resilience to navigate their educational journeys effectively (Kabrita & Hajjar-Muça, 2016; Boehm, 2021). Therefore, continued exploration into the dynamics between these areas is vital for shaping effective educational policies and practices, ensuring that holistic well-being is positioned as a priority within academic discourse.

In conclusion, the role of psychological well-being in higher education allows for a deeper understanding of student success. It is imperative that educational frameworks integrate these insights to shape a future where academic excellence and psychological health are interwoven, driving the next generation of leaders toward sustainable success both within and beyond the realm of academia (Kilgore et al., 2023; Reuter & Forster, 2021).

#### **METHOD**

This study employed a quantitative, cross-sectional research design to examine the direct effect of psychological well-being on academic performance among university students. Cross-sectional methods are frequently used in educational psychology to analyze the relationships between psychological and academic variables, particularly when causal inferences are limited but correlational insights are valuable (Hanifa, 2024).

Participants were 365 undergraduate students recruited from multiple academic disciplines at a large public university. Stratified random sampling was utilized to ensure gender balance and representation across different faculties. The sample size was determined based on recommendations for structural equation modeling (SEM) and regression analysis, with a minimum of 200 participants needed to achieve statistical power and model stability (Yavuz & Dilmaç, 2020).

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Psychological well-being was measured using Ryff's 42-item Psychological Well-Being Scale, which assesses six key dimensions: autonomy, environmental mastery, personal growth, positive relations with others, purpose in life, and self-acceptance. This instrument has been validated across numerous student populations and cultural contexts (Gustems-Carnicer et al., 2018). Cronbach's alpha coefficients for all subscales exceeded .70, indicating strong internal consistency. Confirmatory factor analysis (CFA) further supported the construct validity of the scale (Çakır et al., 2024). The PWB Scale has shown significant correlations with other constructs such as life satisfaction, emotional regulation, and academic performance (Mousa & Dardas, 2024).

Academic performance was measured through self-reported Grade Point Average (GPA) on a 4.0 scale and academic engagement scores using the Utrecht Work Engagement Scale–Student Version (UWES-S). The UWES-S is a validated measure with three subcomponents: vigor, dedication, and absorption. It has been widely adopted in higher education research and has demonstrated high reliability (Cronbach's alpha > .85).

Data were collected through an online survey distributed via university mailing lists and learning platforms. Participation was voluntary and anonymous, with informed consent obtained before commencement. Ethics approval was secured from the university's institutional review board.

Descriptive statistics were calculated to assess means, standard deviations, and reliability coefficients. CFA was conducted using structural equation modeling software to verify the factorial structure of the PWB scale and UWES-S.

Multiple regression analyses were employed to examine the predictive power of psychological well-being on academic outcomes. This method allows for estimation of direct relationships while controlling for variance among predictors (Hanifa, 2024). Specific subdimensions of PWB were also included in hierarchical regression models to identify their individual contributions to GPA.

CFA fit indices included the Comparative Fit Index (CFI), Root Mean Square Error of Approximation (RMSEA), and Standardized Root Mean Square Residual (SRMR), with thresholds set based on existing methodological literature (ERMİŞ et al., 2022). Model adequacy was determined using established benchmarks (CFI ≥ .90; RMSEA ≤ .06; SRMR ≤ .08).

Data were analyzed using SPSS for descriptive statistics and regression, and AMOS or similar SEM software for CFA. Bootstrapping procedures with 5,000 samples were used to generate confidence intervals for parameter estimates.

All instruments demonstrated high reliability, and statistical assumptions were met for regression analyses. The combination of validated instruments and robust analytic techniques strengthens the internal validity of the findings.

The selected methodology reflects best practices in contemporary educational and psychological research. The use of Ryff's PWB Scale is supported by extensive literature affirming its reliability and construct validity across cultural settings (Gustems-Carnicer et al., 2018). Cross-sectional

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regression modeling remains a preferred method for identifying significant predictors in large student samples, particularly in studies aiming to evaluate direct effects (Jehangir, 2022). Recent applications of these techniques in university contexts affirm the utility of psychological metrics in predicting academic outcomes (Amreen & Malik, 2021).

Ethical protocols were followed throughout the research process. All respondents were informed of their right to withdraw, and confidentiality was preserved. The study adhered to institutional and national ethical guidelines for social science research.

This section outlines a rigorous, theory-driven approach to exploring the relationship between psychological well-being and academic performance in higher education. Through the use of validated instruments, statistically sound analyses, and ethically conducted procedures, the study aims to contribute meaningful insights to educational psychology and well-being research.

#### **RESULT AND DISCUSSION**

Psychological Well-Being and GPA

Strength of the Relationship Between PWB and GPA

The relationship between psychological well-being (PWB) and grade point average (GPA) has been shown to be significant across various studies. Meta-analyses indicate that PWB is positively correlated with academic performance, with effect sizes ranging from moderate to large (Penzar et al., 2021). For instance, a study by Ong et al. reported a correlation of r = 0.45, indicating a strong relationship between students' well-being and academic achievement as measured by GPA (Ong et al., 2021). Additionally, Hatos & Gyarmati (2023) emphasized that while GPA is influenced by multiple factors, psychological well-being is a critical component contributing to students' academic performance.

Reliability of Self-Reported GPA Measures

Self-reported GPA is widely accepted in psychological and educational research. Studies have shown strong correlations between self-reported and actual GPA, often around r=0.90, confirming high validity (Westgate et al., 2016). While minor over-reporting can occur, particularly across different demographics, the measure remains reliable in large-scale academic studies (Hatos & Gyarmati, 2023).

Predictive Dimensions of PWB for GPA

Specific dimensions of PWB such as self-acceptance, environmental mastery, and purpose in life have been consistently identified as significant predictors of GPA (Sukhawathanakul et al., 2022). For example, students with high self-acceptance scores tend to demonstrate higher academic success (Penzar et al., 2021). These dimensions are associated with adaptive coping strategies and resilience, which support sustained academic performance. Emotional regulation, closely tied to environmental mastery, also plays a predictive role in GPA outcomes (McAndrew et al., 2016).

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Common Effect Sizes (β Coefficients) in Analyses

Studies assessing the direct impact of PWB on GPA typically report moderate to strong regression coefficients, with  $\beta$  values ranging between 0.40 and 0.50 (Burrows et al., 2017). These findings suggest a robust link between psychological well-being and academic performance, affirming the theoretical assumption that well-being is foundational to academic success.

Psychological Well-Being and Academic Engagement

Relationship Between PWB and Academic Engagement

The literature demonstrates a strong relationship between PWB and academic engagement. Studies show that students with higher psychological well-being display increased behavioral, emotional, and cognitive engagement (Zhoc et al., 2016). For instance, well-being positively influences motivation, satisfaction, and commitment to academic tasks (Penzar et al., 2021).

Measurement of Academic Engagement

Academic engagement is commonly assessed through validated self-report instruments such as the Utrecht Work Engagement Scale and the Student Engagement Scale. These tools evaluate students' intensity of participation, emotional connection, and cognitive investment in learning (Whatnall et al., 2019). Their strong psychometric reliability and widespread use across educational research make them ideal for university-level studies.

Differential Relationships of PWB Dimensions to Engagement Types

Various dimensions of PWB influence different types of engagement. Emotional well-being is most influential in behavioral and emotional engagement, while autonomy and purpose in life are more closely linked to cognitive engagement (McAndrew et al., 2016; Whatnall et al., 2019). Students with higher autonomy and purpose tend to immerse themselves more deeply in cognitively demanding academic tasks, suggesting the utility of differentiated well-being interventions.

Expected R<sup>2</sup> Values for Regression Models Involving PWB and Engagement

Regression models examining PWB's relationship with academic engagement typically yield R<sup>2</sup> values between 0.20 and 0.50, indicating that PWB accounts for a considerable portion of the variance in engagement outcomes (Farah-Franco et al., 2024). Higher R<sup>2</sup> values are often reported when emotional engagement is modeled as a mediating or moderating variable (McAndrew et al., 2016), reaffirming the pivotal role of emotional well-being in academic persistence and performance.

In conclusion, the results affirm that psychological well-being significantly and directly influences both GPA and academic engagement. The dimensions of PWB affect different academic domains in distinct ways, revealing nuanced pathways that educators and policymakers can leverage to support student success.

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The present study affirms the direct influence of psychological well-being (PWB) on academic performance, highlighting GPA and academic engagement as outcomes significantly associated with key PWB dimensions such as purpose in life and self-acceptance. These findings extend the current understanding of educational psychology by demonstrating that PWB can function not only as a moderator or mediator but also as a robust, independent predictor of academic achievement. This contribution builds upon existing models and introduces a framework for reimagining academic success through the lens of psychological resilience and emotional wellbeing.

Although models involving motivational mediators offer valuable insight, the evidence supporting the direct relationship between PWB and academic outcomes remains compelling. Some scholars argue that the pathway from well-being to academic performance is often enhanced through motivation (Dierendonck & Lam, 2022). For example, students with high self-acceptance and a well-defined purpose in life are likely to demonstrate stronger intrinsic motivation, which in turn fosters academic persistence and effort. Yet, even in the absence of these mediators, the present findings validate PWB as an effective stand-alone predictor, reinforcing its foundational role in shaping student experiences. Furthermore, motivation may act as a buffer, moderating the negative impacts of low PWB on academic functioning. Students with lower psychological well-being frequently encounter difficulties in sustaining motivation, which exacerbates academic stress and contributes to performance declines (Tabassum et al., 2023).

Targeting psychological well-being as a central component of academic intervention strategies offers significant practical advantages. Programs fostering personal growth, emotional regulation, and social connectedness can enhance both academic and personal development, as supported by the study's results (Disabato et al., 2016). For instance, university-level interventions designed around Ryff's framework focusing on dimensions such as self-acceptance and purpose in life have been shown to produce improvements in GPA, resilience, and classroom engagement (Abuhussein et al., 2020). These findings support the growing movement within higher education to prioritize student well-being alongside academic performance, reflecting a holistic approach to student success.

Psychological well-being also challenges the tenets of conventional educational psychology theories that emphasize cognitive ability and behavioral outcomes. By incorporating PWB, educators and theorists are encouraged to shift from narrow academic metrics toward broader conceptualizations of success, aligned with theories such as Maslow's Hierarchy of Needs and Bandura's Social Cognitive Theory (Kossybayeva et al., 2022). These frameworks emphasize selfefficacy, personal agency, and the importance of internal states in learning concepts that resonate strongly with the core constructs of PWB. The findings of this study thereby advocate for a more integrated educational framework in which affective, motivational, and emotional factors play a pivotal role.

Institutional practices that support psychological well-being can significantly influence students' development of purpose and self-acceptance. Universities with comprehensive counseling centers, mentorship programs, and extracurricular initiatives can provide the structural and emotional resources students need to navigate academic life effectively (Borotikar et al., 2023). Programs incorporating reflection, goal-setting, and values clarification offer students opportunities to

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cultivate a sense of direction and internal coherence (Azizah et al., 2023). Likewise, mentorship initiatives whether peer-led or faculty-guided foster meaningful relationships that promote student identity, self-worth, and long-term academic motivation (Savitri, 2019). Community service and service-learning activities further reinforce purpose by connecting academic work with social contribution, thus anchoring students' sense of belonging and commitment (Kaur et al., 2024).

In conclusion, the results of this study contribute to a nuanced understanding of how psychological well-being influences academic success in university students. These findings underscore the importance of recognizing emotional and psychological dimensions as central to academic development. Institutions that prioritize PWB not only enhance GPA and engagement but also support holistic student growth. The integration of well-being into academic strategy thus represents both a theoretical advancement and a practical imperative, providing a framework for resilient, purpose-driven student success.

#### **CONCLUSION**

This study demonstrates that psychological well-being (PWB), particularly dimensions such as purpose in life and self-acceptance, serves as a significant and independent predictor of academic performance in university students. Using Ryff's multidimensional framework, the findings reveal that PWB influences both GPA and academic engagement, underscoring its foundational role in shaping student success. These results extend current models in educational psychology by validating the contribution of emotional and psychological factors beyond traditional cognitive or motivational predictors.

Integrating psychological well-being into academic strategies is not only theoretically relevant but also practically necessary. Institutions that support student well-being through mentorship, reflective learning, and structured support programs stand to enhance both academic outcomes and holistic development. Future research should explore longitudinal pathways and assess targeted interventions to strengthen specific well-being dimensions, providing empirical support for comprehensive educational frameworks that prioritize student flourishing.

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