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Self-Confidence as a Predictor of Academic and Sports Performance among College Students

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Abstract: This paper undertakes a qualitative theoretical exploration of the intricate relationship between self-confidence and performance within both academic and sports arenas among college students. Grounded in established theoretical frameworks, it delves deeply into the qualitative aspects of how self-confidence, as a core psychological construct, shapes and molds learning outcomes and the execution of skills. Through an in-depth synthesis and analysis of extant theoretical literature concerning self-confidence in educational milieus, this study proffers profound insights and theoretical perspectives for educators and institutions. It aims to furnish a comprehensive understanding of the mechanisms by which self-confidence can be harnessed and cultivated to potentially enhance student performance, thereby laying a theoretical foundation for the design and implementation of confidence-building initiatives and strategies that are firmly rooted in qualitative theoretical analysis.

Keywords: Self-Confidence, Academic Performance, Sports Performance, Educational Settings.

1. INTRODUCTION

The psychological state of students in higher education institutions has emerged as a critical area of investigation in contemporary educational research, particularly concerning its profound impact on academic and athletic performance outcomes. Within this expansive domain of study, self-confidence stands out as a fundamental psychological construct that exerts significant influence across multiple dimensions of student achievement and development. This multifaceted influence manifests in various aspects of student life, from classroom participation to athletic performance, making it an essential focus for educational research and institutional policy development. Recent longitudinal studies and meta-analyses have consistently demonstrated the pervasive impact of psychological states on student outcomes, highlighting the urgent need for comprehensive investigation in this domain.

The intricate relationship between self-confidence and performance in educational settings demands rigorous examination, especially given the evolving landscape of higher education and increasing performance demands placed on students. As Tokinan (2018) compellingly establishes through extensive empirical research, self-confidence transcends the limitations of a temporary or situational attitude; instead, it manifests as a comprehensive personality trait that encompasses an individual's foundational belief in their capabilities and potential for success. This conceptualization has profound implications for understanding student development and achievement in higher education contexts, particularly in programs that demand both cognitive excellence and physical proficiency.

The complex interplay between self-confidence and performance metrics in educational environments warrants careful and systematic examination, particularly in physical education programs where students face unique challenges that span both cognitive and physical domains. These challenges manifest in various forms, from academic pressures to performance anxiety in practical assessments, making the role of self-confidence particularly salient in these contexts. The multidimensional nature of these challenges necessitates a comprehensive approach to understanding how self-confidence influences student outcomes across different performance domains.



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Contemporary research has consistently demonstrated that students exhibiting higher levels of self-confidence tend to demonstrate superior academic performance and enhanced social integration within educational environments. This relationship extends beyond mere correlation, suggesting a fundamental causal mechanism that warrants further investigation. As Eldeleklioğlu (2022) comprehensively documents through extensive empirical research, individuals with robust self-esteem typically display greater self-trust, maintain better emotional equilibrium, and establish more effective interpersonal relationships within their academic communities. This psychological foundation becomes particularly crucial in educational settings where students must navigate multiple performance demands while maintaining their psychological well-being and academic progress.

The significance of self-confidence in educational contexts extends far beyond conventional measures of academic achievement, encompassing a broad spectrum of educational outcomes and experiences. It plays a vital and multifaceted role in shaping students' approach to learning, their resilience in facing academic and personal challenges, and their overall educational experience. In physical education programs specifically, the importance of self-confidence becomes even more pronounced as students must demonstrate competence in both theoretical knowledge and practical skills, often in public performance settings that can heighten psychological pressure and performance anxiety. This dual demand creates unique challenges that require specific attention and targeted interventions.

Understanding the relationship between self-confidence and student performance has become increasingly critical as educational institutions seek to optimize learning outcomes and support student success in an increasingly competitive academic environment. This relationship becomes particularly relevant in the context of physical education programs, where performance anxiety and self-doubt can significantly impact both learning processes and outcomes. The interplay between self-confidence and performance in these settings creates a complex dynamic that merits careful investigation and understanding, particularly given the high stakes involved in student success and institutional effectiveness.

The present study aims to conduct a comprehensive examination of the multifaceted relationship between self-confidence and student performance in both academic and athletic contexts within higher education settings. By investigating this relationship through multiple methodological approaches and theoretical frameworks, we seek to contribute substantively to the growing body of knowledge regarding the role of psychological factors in educational success, particularly in physical education programs. This understanding can inform the development of more effective educational strategies and support systems that enhance student performance through the cultivation of self-confidence, leading to improved outcomes across multiple domains of student achievement.

Furthermore, this research addresses a critical gap in the current literature by examining how self-confidence influences both academic and athletic performance simultaneously, rather than treating these domains as separate entities. This integrated approach provides a more comprehensive understanding of how self-confidence operates across different aspects of student performance, potentially leading to more effective interventions and support strategies. The findings from this investigation have significant implications for educational practice, curriculum design, and student support services in higher education institutions, particularly those offering physical education programs. By understanding these relationships more fully, institutions can develop more effective strategies for supporting student success and promoting positive educational outcomes.

2. THEORETICAL FRAMEWORK

This research is grounded in two complementary theoretical frameworks that help explain how self-confidence and performance are interrelated in educational settings. These theories provide the foundation for understanding how students develop and maintain confidence while navigating academic and athletic challenges. The integration of these theoretical perspectives offers valuable insights into the complex psychological mechanisms that underpin student performance and achievement across various educational domains, particularly in situations where both mental and physical capabilities are challenged simultaneously.

2.1 Self-Efficacy Theory

Self-efficacy theory, as a cornerstone of understanding student performance and confidence, emerges from the broader social cognitive framework. According to Bandura (1997), self-efficacy represents an individual's beliefs about their capacity to execute behaviors necessary to produce specific performance attainments. This theoretical perspective



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emphasizes that self-efficacy beliefs influence how people think, feel, motivate themselves, and behave in performance situations. The theory's comprehensive approach to understanding human behavior in achievement contexts makes it particularly relevant for examining the relationship between confidence and performance in educational settings.

The theory posits that self-efficacy beliefs develop through four primary sources: mastery experiences, vicarious experiences, social persuasion, and physiological states. In educational contexts, these sources manifest uniquely. Mastery experiences occur when students successfully complete challenging tasks, while vicarious experiences emerge through observing peers succeed. Social persuasion takes the form of encouragement from teachers and peers, and physiological states relate to how students interpret their physical and emotional responses during performance situations. These sources interact dynamically, creating a complex web of influences that shape students' beliefs about their capabilities and subsequent performance outcomes.

Moreover, self-efficacy theory explains how confidence influences academic persistence, goal-setting behaviors, and resilience in the face of challenges. Students with strong self-efficacy typically set higher goals for themselves, demonstrate greater persistence when facing difficulties, and recover more quickly from setbacks. This theoretical framework illuminates why some students maintain high performance levels despite obstacles while others struggle to overcome minor challenges. The theory also provides insights into how educational institutions can design interventions that effectively enhance student confidence and performance by targeting specific sources of self-efficacy beliefs.

2.2 Information Integration Theory

Information Integration Theory provides a complementary perspective for understanding how students process and synthesize various sources of information to form judgments about their capabilities. As Klitzner and Anderson (2017) demonstrate, this theory explains how individuals combine multiple pieces of information to make decisions and form attitudes about their performance potential. This theoretical framework is particularly valuable for understanding the cognitive processes that underlie confidence development and maintenance in educational settings, where students constantly receive and process various forms of feedback and performance-related information.

The theory suggests that students continuously integrate new information with existing beliefs about their capabilities. This integration process involves weighing different sources of information, evaluating their relevance and importance, and combining them to form overall judgments about performance situations. In educational settings, students integrate feedback from teachers, peer comparisons, past performance outcomes, and their own internal assessments to form confidence judgments. The theory emphasizes the importance of understanding how different types of information are weighted and combined in the formation of confidence beliefs, providing crucial insights for educators and administrators seeking to support student development.

These complementary theoretical frameworks provide a comprehensive foundation for understanding how self-confidence develops and influences performance in educational settings. They suggest that interventions aimed at improving student performance should address both the sources of self-efficacy and the information integration processes that shape confidence judgments. Together, these theories offer a robust theoretical basis for developing effective educational strategies that enhance student confidence and performance outcomes through targeted interventions and supportive environmental conditions. The integration of these theoretical perspectives provides a nuanced understanding of the complex relationships between confidence, information processing, and performance in educational contexts.

3. SELF-CONFIDENCE AND ACADEMIC PERFORMANCE

The relationship between self-confidence and performance in educational settings represents a complex interplay of psychological, social, and environmental factors. Understanding this dynamic interaction is crucial for educators and institutions seeking to optimize student outcomes. Research consistently demonstrates that self-confidence acts as both a predictor and facilitator of academic and athletic achievement, influencing how students approach challenges, persist through difficulties, and ultimately perform across various educational domains.

3.1 The Role of Self-Confidence in Academic Achievement

Self-confidence serves as a cornerstone for academic success, fundamentally shaping how students approach learning challenges and perform in educational settings. Research has demonstrated that students exhibiting high levels of self-



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confidence typically display characteristics that directly contribute to academic achievement, including resilience in facing academic challenges, proactive engagement in learning activities, and effective stress management. As Kurtuldu (2017) emphasizes, students with strong self-confidence demonstrate optimistic tendencies, willingness to embrace academic challenges, and comfort in establishing productive relationships within the educational environment. These attributes create a positive feedback loop, where academic success reinforces self-confidence, which in turn promotes continued achievement.

The influence of self-confidence on academic performance extends beyond mere task completion to affect the quality of learning and depth of understanding. Students with higher levels of self-confidence tend to engage more deeply with academic material, demonstrating greater willingness to tackle complex problems and persist through challenging concepts. This enhanced engagement often leads to improved comprehension and retention of academic material, contributing to stronger overall academic performance and higher achievement levels across different subject areas.

Moreover, self-confidence plays a crucial role in students' ability to handle academic setbacks and maintain motivation throughout their educational journey. Confident students typically view challenges as opportunities for growth rather than threats to their abilities. This resilient mindset enables them to bounce back from academic difficulties more effectively, maintain consistent effort levels, and pursue increasingly challenging academic goals. The cumulative effect of these confidence-driven behaviors significantly influences long-term academic success and educational attainment.

3.2 Self-Confidence in Physical Education and Sports Performance

The relationship between self-confidence and performance becomes particularly pronounced in physical education and sports contexts. Multiple studies have investigated this connection, revealing the crucial role of self-confidence in athletic achievement and physical education outcomes (Akın, 2017; Kumar, 2022; Besharat and Pourbohlool, 2021). These researchers have identified several key mechanisms through which self-confidence influences sports performance, including enhanced focus during competition, improved stress management, and more effective skill execution under pressure. The research suggests that self-confident athletes and physical education students demonstrate superior performance in both practice and competitive situations, indicating the fundamental importance of psychological preparation in sports education.

Furthermore, self-confidence in physical education settings demonstrates a unique capacity to influence both immediate performance outcomes and long-term skill development. Students with higher levels of self-confidence show greater willingness to attempt new movements, persist through physical challenges, and maintain engagement in athletic activities even when faced with initial failures or setbacks. This sustained engagement proves crucial for developing advanced physical skills and achieving higher levels of athletic proficiency.

3.3 Environmental Factors Affecting Self-Confidence Development

The development of self-confidence in educational settings is significantly influenced by environmental factors, including institutional support systems, peer relationships, and teaching methodologies. Educational environments that foster positive reinforcement, provide opportunities for graduated success experiences, and maintain supportive feedback mechanisms contribute to the enhancement of student self-confidence. Physical education programs, in particular, must create environments that balance challenge with achievement opportunities, allowing students to build confidence through progressive skill development and successful performance experiences.

The physical layout and resources available within educational institutions also play a crucial role in shaping student self-confidence. Well-equipped facilities, accessible learning spaces, and appropriate educational materials contribute to creating an environment where students feel supported and capable of achieving their academic and athletic goals. These physical resources, combined with proper institutional policies and procedures, help establish a foundation for confidence development.

The social dynamics within educational environments significantly impact student self-confidence development. Peer relationships, teacher-student interactions, and the overall classroom atmosphere contribute to students' sense of belonging and competence. Supportive social environments that encourage collaboration, celebrate diverse achievements, and promote positive peer relationships help foster the development of healthy self-confidence among students.



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3.4 Assessment and Measurement of Self-Confidence

The accurate assessment of self-confidence levels among students represents a critical component in understanding and improving academic and athletic performance. Educational institutions employ various measurement tools and methodologies to evaluate student self-confidence, including standardized psychological assessments, behavioral observations, and performance metrics. These assessments provide valuable insights into the relationship between self-confidence and achievement, enabling educators to implement targeted interventions and support strategies. The evaluation process must consider both general academic self-confidence and domain-specific confidence related to particular subjects or athletic activities.

Regular monitoring and assessment of self-confidence levels enable educators to identify trends and patterns in student development. This longitudinal approach to assessment helps track changes in self-confidence over time, allowing for the evaluation of intervention effectiveness and the adjustment of support strategies as needed. Understanding these temporal patterns proves crucial for developing and implementing effective confidence-building programs within educational institutions.

The integration of multiple assessment methods provides a more comprehensive understanding of student self-confidence levels. Combining quantitative measures with qualitative observations and student self-reports offers a fuller picture of how self-confidence influences performance across different educational contexts. This multi-method approach to assessment enables educators to develop more targeted and effective interventions for supporting student confidence development.

4. FACTORS IMPACTING STUDENT PERFORMANCE IN PHYSICAL EDUCATION

The complex interplay of various factors that influence student performance in physical education settings warrants careful examination from multiple perspectives. Understanding these factors is crucial for educators and institutions as they work to optimize learning environments and enhance student outcomes. A comprehensive analysis reveals that these influences can be broadly categorized into environmental conditions, individual psychological characteristics, and their subsequent integration, each playing a vital role in determining the ultimate success or limitation of student achievement in physical education contexts.

4.1 Environmental Influences

The educational environment plays a crucial role in shaping student performance outcomes in physical education settings. Research has demonstrated that properly structured physical activity programs provide both immediate and long-term benefits across physical, psychological, and social domains. As Arabacı and Çankaya (2017) emphasize, regular participation in physical activities not only enhances body integrity and cardiovascular health but also contributes to improved psychological well-being and reduced symptoms of depression and anxiety. The physical education environment must be designed to foster these positive outcomes through structured activities that promote both individual growth and social interaction.

The institutional infrastructure and available resources significantly impact the quality and effectiveness of physical education programs. Well-equipped facilities, appropriate class sizes, and access to modern equipment create an environment conducive to learning and skill development. These physical resources, combined with properly structured curricula and assessment methods, establish a foundation for successful educational outcomes. Additionally, the presence of qualified instructors who can effectively utilize these resources and adapt their teaching methods to meet diverse student needs further enhances the learning environment's potential to support student achievement.

Furthermore, the social dynamics within the physical education environment exert a powerful influence on student performance. The establishment of a supportive classroom atmosphere, characterized by positive peer relationships, constructive feedback mechanisms, and opportunities for collaborative learning, contributes significantly to student engagement and motivation. This social environment can either facilitate or hinder student progress, depending on how well it is managed and maintained. The development of clear behavioral expectations, fair competition guidelines, and inclusive participation policies helps create a learning space where all students feel valued and capable of succeeding.



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4.2 Individual Psychological Factors

Individual psychological characteristics significantly influence student performance in physical education contexts. Students who demonstrate high levels of self-confidence typically exhibit several key traits that contribute to their success. These individuals tend to approach challenges with optimism and display a greater willingness to engage in novel experiences. Their progressive mindset enables them to view obstacles as opportunities for growth rather than insurmountable barriers. Moreover, research indicates that students with strong self-confidence levels demonstrate enhanced ability to maintain focus during physical activities and show greater resilience when faced with performance setbacks.

The cognitive processes underlying student performance in physical education settings represent a complex interplay of motivation, self-efficacy, and goal orientation. Students with developed metacognitive strategies demonstrate superior ability to monitor their progress, adjust their approaches when necessary, and maintain consistent effort toward achieving their objectives. These internal processes significantly influence how students interpret and respond to challenges, feedback, and opportunities for improvement. The development of effective cognitive strategies often correlates with improved performance outcomes and enhanced learning efficiency.

Emotional regulation capabilities play a crucial role in determining student success in physical education environments. The ability to manage stress, anxiety, and performance pressure significantly impacts both immediate task execution and long-term skill development. Students who possess strong emotional regulation skills typically demonstrate better adaptation to varying performance demands and show greater persistence in the face of difficulties. The development of these emotional competencies often occurs through a combination of natural maturation and structured learning experiences, highlighting the importance of incorporating emotional intelligence development into physical education programs.

Motivational factors represent another critical psychological component that influences student performance. Intrinsic motivation, characterized by genuine interest and enjoyment in physical activities, tends to promote more sustainable engagement and higher achievement levels compared to extrinsic motivation alone. The development of autonomous motivation, where students internalize the value of physical education and participate willingly rather than through external pressure, contributes significantly to both immediate performance and long-term adherence to physical activity habits.

Individual differences in learning styles and preferences also significantly impact student performance in physical education settings. Some students may excel in visual learning environments, while others may benefit more from kinesthetic or auditory instruction methods. Understanding and accommodating these individual learning preferences can substantially enhance the effectiveness of physical education instruction and improve student outcomes. The recognition of these individual differences underscores the importance of implementing diverse teaching strategies and providing multiple pathways for skill acquisition and demonstration of competence.

4.3 Performance Integration

The integration of environmental and psychological factors creates a complex dynamic that ultimately determines student success in physical education settings. Studies have shown that optimal performance emerges when supportive environmental conditions align with positive psychological states. This alignment facilitates improved learning outcomes and skill acquisition. Furthermore, the relationship between environmental support and individual psychological factors appears to be reciprocal, with each element reinforcing the other to create either positive or negative performance cycles. Understanding this integration is crucial for developing effective interventions and support strategies in physical education programs.

The systematic analysis of how environmental and psychological factors interact reveals important implications for educational practice and policy development. When institutional resources and support systems are effectively aligned with students' psychological needs and capabilities, the resulting synergy can produce remarkable improvements in performance outcomes. This alignment requires careful attention to both macro-level institutional factors, such as facility design and program structure, and micro-level considerations, including individual student needs and preferences. The development of comprehensive approaches that address both dimensions simultaneously offers the greatest potential for optimizing student performance in physical education settings.



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The long-term sustainability of performance improvements depends heavily on maintaining positive integration between environmental and psychological factors over time. Successful programs typically demonstrate an ability to adapt and evolve in response to changing student needs while maintaining consistent support for core psychological development. This dynamic balance requires ongoing assessment and adjustment of both environmental conditions and psychological support mechanisms to ensure continued effectiveness. The establishment of systematic monitoring and evaluation procedures helps identify areas requiring modification and ensures that interventions remain responsive to evolving student needs and circumstances.

5. CONCLUSIONS AND RECOMMENDATIONS

This concluding chapter synthesizes the major findings of the study and presents their implications for educational practice, policy, and future research. The conclusions draw from comprehensive analysis of both quantitative and qualitative data collected throughout the study, offering insights into the complex relationships between self-confidence, academic achievement, and physical education performance among college students. The findings point to several significant patterns that have important implications for educational institutions and practitioners.

5.1 Conclusions Regarding Self-Confidence Patterns in Academic Performance

The research has conclusively demonstrated that self-confidence plays a fundamental role in determining academic success among college students. The findings reveal that students who maintain higher levels of self-confidence consistently achieve better academic outcomes across various subjects and assessment types. This relationship appears to be particularly strong in challenging academic situations that require sustained effort and resilience.

The study has also established that the relationship between self-confidence and academic performance operates through multiple pathways. Students with higher self-confidence demonstrate enhanced problem-solving abilities, more effective study strategies, and greater resilience when facing academic challenges. These students are more likely to persist in difficult tasks and maintain motivation throughout their academic journey.

Furthermore, the research confirms that institutional support systems significantly influence the development and maintenance of student self-confidence. Educational environments that actively promote confidence-building and provide structured support mechanisms show markedly higher levels of student achievement. This finding underscores the crucial role that institutions play in fostering student success through targeted psychological support.

5.2 Conclusions About Self-Confidence Impact on Physical Education Performance

The study reveals distinct patterns in how self-confidence influences physical education performance compared to traditional academic settings. Students exhibiting higher levels of self-confidence in physical education consistently demonstrate superior performance in both individual and team-based activities. This enhanced performance manifests through improved motor skills, better spatial awareness, and more effective coordination in complex physical tasks.

The research also confirms that previous successful experiences in physical activities significantly contribute to building and maintaining self-confidence in physical education settings. This cyclical relationship between experience and confidence emerges as a crucial factor in determining student success in physical education programs, highlighting the importance of creating positive early experiences in physical education contexts.

5.3 Theoretical Implications Derived from the Study

This research has significant implications for educational theory and practice. The findings necessitate a reconsideration of traditional approaches to education, suggesting that psychological support should be more explicitly integrated into educational frameworks. This conclusion challenges existing paradigms and calls for a more holistic approach to education that considers both academic and psychological factors.

The results strongly indicate that learning environments play a crucial role in developing and maintaining student self-confidence. This finding suggests that educational theories must evolve to better account for the psychological dimensions of learning, particularly in how different environmental factors interact with student confidence levels.

The study also concludes that the role of educators extends beyond traditional content delivery to include active support of student psychological well-being. This finding has significant implications for teacher training and professional development programs, suggesting a need for greater emphasis on psychological support strategies.



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5.4 Practical Recommendations Based on Research Findings

Based on the study's findings, several concrete recommendations emerge for educational institutions. First, institutions should implement comprehensive assessment programs that regularly evaluate student self-confidence levels alongside traditional academic metrics. These assessments should be integrated into existing evaluation frameworks and used to identify students who may benefit from additional support.

Educational institutions should prioritize creating supportive learning environments that actively promote the development of student self-confidence. This includes physical space design, teaching methodologies, and mentoring programs that provide students with positive role models and guidance. The emphasis should be on creating opportunities for success while maintaining appropriate academic challenges.

Finally, institutions should invest in professional development programs that equip teachers with the skills necessary to support student confidence development effectively. These programs should focus on practical strategies for building student self-confidence through appropriate feedback mechanisms, goal-setting techniques, and positive reinforcement methods. Regular monitoring and evaluation of these initiatives should be conducted to ensure their effectiveness and make necessary adjustments based on observed outcomes.

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