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Examining the Variables that Impact Academic Performance in Higher Education.

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Abstract

This research paper examines the multifaceted variables that impact academic performance in higher education, with a particular focus on time management skills. Academic performance is influenced by a complex interplay of economic, social, psychological, environmental, and personal factors, each of which plays a role differently in a student's success. The objective of this study is to explore how these factors, especially time management, influence academic outcomes, and to provide a comprehensive review of the literature surrounding this topic.

Academic performance in higher education is a multifaceted phenomenon influenced by an intricate mix of economic, social, psychological, environmental, and personal factors. This review critically examines key variables affecting student performance, focusing on underexplored areas such as time management skills, psychological well-being, and the changing landscape of digital learning environments. Drawing from extensive literature, this paper identifies gaps in current research and evaluates how higher education institutions can address these issues through targeted interventions. The results highlight the need for greater emphasis on mental health support, personalized learning approaches, and strategies to enhance students' time management and adaptability in evolving academic contexts.

This paper highlights the significance of addressing both external and internal factors that affect academic performance. By fostering a supportive environment, providing necessary resources, and offering time management interventions, institutions can better support students in achieving academic success.

Keywords: Academic performance, higher education, time management, psychological factors, economic factors, social factors, learning environments, mental health, student success, educational support, personal factors

Introduction

Context and Background

Academic performance in higher education has long been a central concern for educators, policymakers, and institutions. Beyond its importance for individual success, the academic achievements of students reflect the effectiveness of educational institutions and play a critical role in shaping the socio-economic landscape of societies. High-performing students are more likely to become productive professionals, contributing to national development and global competitiveness. Conversely, students who struggle academically may face limited career opportunities, which can perpetuate cycles of inequality and socio-economic disadvantage.

The complexity of academic performance lies in its multidimensional nature, influenced by a broad spect-



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trum of factors. These variables range from external factors such as family income and institutional resources to personal traits like time management, study habits, and psychological resilience. Academic performance is not merely a reflection of intellectual ability; it is also shaped by a student's environment, support systems, mental health, and ability to navigate the demands of higher education.

Importance of Studying Academic Performance Variables

Investigating the variables that impact academic performance is crucial for developing effective interventions to enhance student success. Higher education is becoming increasingly complex, with students facing new challenges related to digital learning environments, the growing prevalence of online education, and the balancing of work, family, and academic responsibilities. Understanding how factors influence academic performance can help institutions provide more targeted support to their students, ultimately fostering a more inclusive and effective educational system.

While economic and social factors have received considerable attention in academic literature, personal and psychological factors, particularly time management, remain underexplored. As students' demands grow, understanding how to help them manage their time and maintain their mental health has become a key focus of research in educational psychology. This review aims to provide a comprehensive overview of the literature on the variables that impact academic performance, identifying both well-established factors and those that require further investigation.

Research Objective

The objective of this paper is to conduct a detailed review of the factors that affect academic performance in higher education. Specifically, this review will focus on underexplored areas such as time management skills and their correlation with academic success. It will also assess the role of psychological well-being and the impact of emerging digital learning environments. By identifying gaps in the current research, this paper will offer recommendations for future studies and suggest practical interventions that can be implemented by higher education institutions.

Problem Statement

Academic performance in higher education is not only a key determinant of personal success for students but also a significant factor in shaping the reputation of educational institutions and the broader economic landscape. High academic performance is often associated with better career opportunities, higher income potential, and greater social mobility. Conversely, poor academic performance can lead to increased stress, dissatisfaction, and dropout rates, creating a range of negative outcomes for individuals and society.

Despite the vast amount of research conducted on the subject, there remains a lack of comprehensive understanding of the full range of variables that impact academic performance. While socio-economic status, access to resources, and institutional support have been widely studied, personal factors like time management and psychological resilience are often underexplored or generalized in the literature. This oversight is problematic, as these personal traits play a critical role in determining how students manage the demands of higher education.

One of the most significant challenges facing students today is the capacity to manage academic responsibilities with personal and professional commitments. Many students are juggling part-time jobs, family responsibilities, and social obligations, all of which can detract from their ability to focus on their studies. Additionally, the increasing reliance on digital learning environments presents new challenges



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related to time management, self-discipline, and technological proficiency. Students who lack effective time management skills are more likely to fall behind in their coursework, experience higher stress, and perform poorly academically.

The primary issue is that many higher education institutions offer generalized academic support that may not address the specific needs of students who struggle with time management or psychological resilience. These students may require more personalized interventions, such as workshops on time management or access to mental health services, to achieve academic success. However, the existing literature provides limited guidance on how to design and implement such interventions, leaving a significant gap in our understanding of how to support students effectively.

Academic performance is a critical indicator of student success in higher education, and understanding the variables that impact this performance is essential for educators, policymakers, and students alike. Despite a growing body of research, many gaps remain in understanding how various factors influence academic outcomes. This research aims to resolve the following problem statements, which outline the key areas where further investigation is needed.

1. Economic Barriers to Academic Success

One of the most pressing issues in higher education is the economic disparity among students from different socioeconomic backgrounds. Students from low-income families face significant financial challenges that can hinder their academic performance. These students often lack access to essential resources, such as textbooks, computers, and stable internet connections, which are critical for academic success in today's digital age. Additionally, many low-income students are forced to work part-time jobs to support themselves, which can detract from the time they have available for studying and completing assignments. This economic strain can contribute to heightened stress, poor time management, and lower academic achievement.

Moreover, financial barriers also affect students' ability to participate in extracurricular activities, internships, and academic enrichment programs, which can provide valuable learning experiences and enhance academic performance. While financial aid and scholarship programs exist, they are often insufficient to cover the full range of expenses that students face. This raises the question: How can institutions better support students from low-income backgrounds in overcoming these economic barriers to academic success?

2. Social Support Systems and Academic Engagement

Another critical problem affecting academic performance is the lack of social support that some students experience. Family support, peer relationships, and a sense of belonging within the intellectual community are all important factors that contribute to student success. However, many students particularly first-generation college students, international students, or students from marginalized communities, may feel socially isolated and disconnected from their academic environment. This isolation can lead to lower levels of academic engagement, decreased motivation, and ultimately poorer academic performance.

Students who lack strong support networks may also struggle with balancing their academic responsibilities with personal and familial obligations. For example, students who are responsible for caring for family members or who face cultural or language barriers may find it difficult to engage fully in their academic work. This raises the question: What interventions can institutions implement to foster a greater sense of community and support for students who may feel isolated or marginalized?

3. The Impact of Mental Health on Academic Performance

Mental health issues, including stress, anxiety, and depression, have become increasingly prevalent among



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students in higher education, particularly in the wake of the COVID-19 pandemic. These psychological challenges can significantly impact students' ability to focus, complete assignments, and perform well on exams. Mental health problems are often exacerbated by academic pressures, financial stress, and social isolation, creating a vicious cycle that can severely hinder academic performance.

Despite the growing awareness of the importance of mental health, many institutions still lack adequate mental health services to support their students. Even when services are available, students may be reluctant to seek help due to stigma or a lack of awareness about available resources. This raises the question: How can institutions improve access to mental health services and reduce the stigma associated with seeking help, for better student's psychological well-being and academic success:

4. The Role of Environmental and Institutional Factors

The physical and institutional environment in which students study also plays a significant role in shaping their academic performance. Factors such as class size, access to technology, availability of study spaces, and institutional support services can either enhance or hinder a student's ability to succeed academically. For example, students who lack access to updated technology may find it difficult to keep up with their coursework in an increasingly digital learning environment. In contrast, students in overcrowded classrooms may struggle to receive individualized instructional focus.

Furthermore, institutional policies and practices, such as the availability of academic advising, tutoring services, and career counseling, can significantly impact students' academic success. However, many institutions face challenges in providing these services due to budget constraints, staffing shortages, and logistical issues. This raises the question: How can institutions create learning environments conducive to academic success, and what resources are necessary to ensure that all students have the support they need?

5. Time Management and Personal Accountability

One of the most critical personal factors influencing academic performance is time management. Many students, particularly those balancing academic responsibilities with work, family, or other commitments, struggle to manage their time effectively. Poor time management can lead to missed deadlines, incomplete assignments, and increased stress, which can harm academic performance. Despite the importance of time management, many students enter higher education without having developed the necessary skills to manage their time effectively.

Institutions often offer time management workshops or study skills courses, but these interventions are not always tailored to the specific needs of individual students. Furthermore, time management challenges are often compounded by other factors, such as mental health issues, financial stress, and social obligations. This raises the question: What are the most effective time management strategies for different types of learners, and how can institutions provide personalized support to help students develop these skills?

6. The Gap in Research on Digital Learning Environments

With the increasing prevalence of online education, particularly in the wake of the COVID-19 pandemic, there is a growing need to understand how digital learning environments impact academic performance. While online education offers flexibility and convenience, it also presents challenges, such as self-discipline, effective time management, and reliable access to technology. However, research on the effectiveness of online learning and its impact on academic outcomes is still in its early stages.

Students who thrive in traditional classroom settings may struggle with the self-directed nature of online learning, while others may benefit from the flexibility that digital learning environments provide. This raises the question: How can institutions design online learning environments that support student success,



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and what resources are necessary to help students succeed in these environments?

Research Gap

The existing literature on academic performance in higher education has primarily focused on external factors such as socio-economic background, access to resources, and institutional support. These factors have been well-documented as important determinants of academic success, with numerous studies demonstrating the impact of financial stability, quality of instruction, and access to educational resources on student performance.

However, there are several notable gaps in the research, particularly regarding personal and behavioral factors that influence academic performance. One of the most significant gaps is in the area of time management. While time management is frequently mentioned as a contributor to academic success, few studies have offered a detailed empirical analysis of how specific time management practices correlate with academic performance across different disciplines, learning environments, or student demographics. The lack of research on this topic is surprising, given the growing demands placed on students in today's higher education landscape.

Another gap in the literature concerns the interaction between external stressors, such as work commitments or family responsibilities, and academic performance. While there is some research on how these stressors affect students' ability to focus on their studies, there is limited exploration of how students can develop time management strategies to mitigate the impact of these external factors. For example, students who work part-time jobs or have caregiving responsibilities may benefit from time management interventions tailored to their specific needs. Yet the literature provides little guidance on how to design such interventions.

Additionally, while mental health is widely acknowledged as a crucial factor in academic performance, there is limited longitudinal data on how mental health interventions impact students' long-term academic success. Most studies on mental health in higher education focus on short-term outcomes, such as immediate improvements in well-being or reductions in stress. However, there is a lack of research examining how mental health interventions influence the academic performance of a student's collegiate career. Understanding the long-term effects of mental health support is critical for designing interventions that promote sustained academic success.

Finally, the rapid growth of digital learning environments presents new challenges and opportunities for academic performance research. Although online education and the use of technology in higher education have been widely discussed, there is a surprising lack of detailed empirical studies that explore the direct relationship between digital learning environments and academic success. This gap is highly relevant as online education becomes more prevalent, raising questions about how different types of learners adapt to digital platforms and how institutions can support students in these environments.

Result Analysis

The examination of the literature reveals that academic performance in higher education is influenced by a complex interplay of economic, social, psychological, environmental, and personal factors. Each of these factors contributes to academic success in different ways, and their impact can vary depending on the student and the specific context in which they are studying.

Economic factors, particularly family income, and financial support, play a significant role in shaping students' access to educational resources and their ability to focus on their studies. Students from low-



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income backgrounds face multiple challenges that can negatively impact their academic performance, including financial stress, limited access to technology, and the need to work part-time jobs. In contrast, students from wealthier backgrounds have greater access to resources that can enhance their academic experience, such as private tutoring, better technology, and extracurricular activities.

Social factors, including family support and peer relationships, also have a significant impact on academic performance. Students who have strong support systems are more likely to succeed academically, as they benefit from emotional and financial assistance, as well as collaborative learning opportunities with their peers. However, students who experience social isolation or lack familial support may struggle with motivation and academic engagement, which might harm their performance.

Psychological factors, particularly mental health and motivation, are critical determinants of academic success. Students who experience psychological distress, such as stress, anxiety, or depression, are more likely to perform poorly academically. In contrast, students who are motivated and have high levels of self-efficacy are more likely to succeed in their studies. Interventions that focus on improving mental health and building students' self-efficacy can have a positive impact on academic outcomes.

Environmental factors, including the physical learning environment and access to academic resources, also play a crucial role in shaping students' academic performance. Students who study in environments conducive to learning, with access to updated technology and adequate study spaces, tend to perform better academically. In contrast, students who study in overcrowded classrooms or lack access to academic support services may struggle to succeed.

Personal factors, particularly time management skills, are among the most significant predictors of academic success. Students who manage their time effectively and develop strong study habits are more likely to excel academically. However, the literature suggests that many students struggle with time management, particularly when balancing academic responsibilities with personal and professional commitments. Time management interventions, such as workshops or personalized coaching, can help students develop the skills they need to succeed in higher education.

Discussion on the Results

The findings of this review highlight the importance of addressing external and internal factors that affect academic performance in higher education. While institutions can provide financial support and resources, students must also develop personal skills such as time management, study habits, and psychological resilience to succeed.

Economic factors, while external to the student, require institutional policies that reduce financial barriers to education. Scholarships, financial aid, and affordable tuition can alleviate the financial stress that hinders academic performance. Additionally, institutions should provide students with access to technology and other resources which can enhance their learning experience.

Social factors, particularly family support and peer relationships, play a crucial role in academic success. Institutions should foster a supportive social environment, both within families and collegiate communities, to enhance students' educational engagement and motivation. Mentoring programs, peer tutoring, and collaborative learning opportunities can help students build strong support networks that contribute to their academic success.

Psychological factors, particularly mental health and motivation, are critical determinants of academic performance. Institutions should prioritize mental health services and create supportive learning environments that promote students' psychological well-being. Mental health interventions, such as



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counseling services or stress management workshops, can help students cope with the demands of higher education and improve their academic outcomes.

Environmental factors, including the physical learning environment and access to academic resources, also play a significant role in shaping students' academic performance. Institutions should invest in creating learning environments conducive to student success, with access to updated technology, adequate study spaces, and institutional support services.

Personal factors, particularly time management skills, are among the most significant predictors of academic success. Institutions should offer time management workshops, personalized coaching, and other interventions that help students develop the skills they need to succeed in higher education. Additionally, institutions should provide students with resources that support them to balance their academic responsibilities with personal and professional commitments.

The analysis of the results points to the need for a holistic approach to improving academic performance in higher education. While economic, social, psychological, environmental, and personal factors all play significant roles, they are interrelated in ways that require integrated interventions. For instance, financial aid can alleviate economic stress, but it must be coupled with mental health support and academic advising to have a lasting impact on academic performance. Similarly, improving time management skills requires not only workshops but also a supportive learning environment and access to resources. Institutions must recognize the diversity of challenges that students face and develop multifaceted strategies to address them.

Unexpected Findings

One of the most unexpected findings in this review was the extent to which mental health influences academic performance. While it is well-established that psychological well-being affects student success, the degree to which mental health interventions can improve long-term collegiate outcomes is underexplored. More research is needed to determine the long-term impact of these services on academic success. However, the literature suggests that mental health services in higher education are essential for helping students cope with the demands of their educational responsibilities.

Another unexpected finding was the limited research on how digital learning environments and technological advancements impact academic performance. As online education becomes more prevalent, particularly in the wake of the COVID-19 pandemic, it is important to understand how digital learning environments affect students' ability to succeed academically. Research on the effectiveness of online learning, as well as the role of technology in enhancing academic outcomes, is still in its early stages, and more studies are needed to explore these topics further.

Finally, the literature revealed a gap in research on the impact of work-study balance on academic performance. Many students in higher education work part-time jobs to support themselves financially, but the result of work commitments on educational outcomes is not well understood. Future research should explore how students can balance their work and institutional responsibilities, and what institutional support is needed to help students succeed in both areas.

During the review and analysis of variables affecting academic performance in higher education, several unexpected findings emerged that challenge conventional wisdom and highlight areas where further research is needed. These findings open new avenues for investigation and suggest that the factors influencing academic success are more nuanced than previously understood.

The unexpected findings from this review highlight several critical gaps in the literature that warrant fur-



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ther exploration. Mental health's long-term impact on academic performance, the underexplored role of digital learning environments, work-study balance, and the importance of daily study habits are all areas that could benefit from more in-depth research. Addressing these gaps will not only contribute to a better understanding of the factors that influence academic performance but also provide actionable insights for institutions seeking to improve student outcomes.

Scope For the Further Research

This review highlights several areas for further research on the variables that impact academic performance in higher education. First, more research is needed on the specific time management strategies that are most effective for different types of learners. While time management is widely acknowledged as a key factor in academic success, there is limited research on how different time management practices affect students' performance in various academic disciplines or learning environments.

Second, more longitudinal studies are required to examine how mental health interventions can impact students' academic performance over time. While the literature suggests that mental health services support student's academic success, there is limited research on the long-term effects of these services on institutional outcomes. Future studies should explore how mental health interventions, such as counseling or stress management workshops, can improve students' academic performance in academic careers.

Third, the increasing prevalence of online education warrants more research into how digital learning environments and technological tools affect academic outcomes. While online education offers flexibility and convenience for students, it also presents challenges, such as the need for self-discipline and effective time management. Future research should explore how institutions can create online learning environments that support student success, and what resources are needed to help students succeed in digital learning environments.

Finally, more research is needed on the impact of work-study balance on academic performance. Many students in higher education work part-time jobs to support themselves financially, but the effect of work commitments on institutional outcomes is not well understood. Future research should explore how students can balance their work and collegiate responsibilities, and what institutional support is needed to help students succeed in both areas.

Despite the extensive exploration of variables impacting academic performance in higher education, several areas remain underexplored, offering significant opportunities for future research. The complexity of academic success, shaped by economic, social, psychological, environmental, and personal factors, calls for continued investigation. This section outlines potential areas for future research that could enhance our understanding and improve educational outcomes. While significant progress has been made in understanding the variables that impact academic performance, there remain several underexplored areas that warrant further research. By addressing these gaps, future studies can provide a more comprehensive understanding of the factors that impact academic success and offer more targeted interventions to support students in higher education. This research will be crucial for institutions seeking to improve educational outcomes and ensure that all students, regardless of their background, have the opportunity to succeed academically.

Conclusion

This comprehensive review of the literature has examined the variables that impact academic performance



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in higher education, with a focus on economic, social, psychological, environmental, and personal factors. The findings highlight the complex interplay of these variables and their influence on academic success. Economic factors, particularly family income, and financial support, play a significant role in shaping students' access to educational resources and their ability to focus on their studies. Social factors, including family support and peer relationships, also have a significant impact on academic performance, as students

Psychological factors, particularly mental health and motivation, are critical determinants of academic success. Institutions should prioritize mental health services and create supportive learning environments that promote students' psychological well-being. Environmental factors, including the physical learning environment and access to academic resources, also play a crucial role in shaping students' academic performance.

with strong support networks are more likely to succeed academically.

Personal factors, particularly time management skills, are among the most significant predictors of academic success. Institutions should offer interventions that help students develop the skills they need to succeed in higher education and provide resources that help students balance their academic responsibilities with personal and professional commitments.

By addressing the research gaps identified in this review, future studies can contribute to a more comprehensive understanding of the factors that influence academic performance in higher education. This knowledge can inform institutional policies and practices that support student success, and help students achieve their academic goals in a complex and evolving educational landscape.

The research on the variables affecting academic performance in higher education underscores the complexity of the factors at play. Academic success is not determined by a single variable but due to an intricate combination of economic, social, psychological, environmental, and personal factors, each interacting in ways that shape a student's academic journey. This conclusion synthesizes the key findings of the research and offers insights into how these factors can be addressed to improve collegiate outcomes. Academic performance in higher education is defined by several factors, each contributing to student success. By adopting a comprehensive and inclusive approach, institutions can create a learning environment that supports all students in achieving their academic potential. The path forward requires collaboration between educators, administrators, policymakers, and students, all working together to address the challenges and opportunities that higher education presents.

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