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ANALISIS KOMPREHENSIF DAN PENGARUH SAMBIL TERHADAP PENGURUSAN BILIK DARJAH. KECEKAPAN GURU DAN TINGKAH LAKU **PELAJAR**

COMPREHENSIVE ANALYSIS AND MUTUAL INFLUENCE OF CLASSROOM MANAGEMENT, TEACHER EFFICACY, AND STUDENT BEHAVIOR

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ABSTRAK

Pengurusan pendidikan adalah proses yang kompleks dan pelbagai rupa, merangkumi pelbagai elemen yang dijalin rapat. Antaranya, pengurusan bilik darjah, efikasi guru, dan tingkah laku pelajar menonjol sebagai komponen penting yang membentuk landskap pendidikan dengan ketara. Kajian ini bertujuan untuk menyediakan analisis yang komprehensif dan bernuansa pengaruh bersama antara komponen ini dengan mengkaji beberapa penyelidikan yang berkaitan, membongkar peranan teras mereka dalam kejayaan dan keberkesanan pendidikan. Analisis menunjukkan bahawa pengurusan bilik darjah yang berkesan meningkatkan efikasi kendiri guru, menggalakkan positif penyertaan pelajar, efikasi kendiri guru berkait rapat dengan motivasi dan tingkah laku pembelajaran pelajar, dan pengurusan bilik darjah dibentuk oleh maklum balas pelajar yang positif dan negatif, yang seterusnya mempengaruhi efikasi guru. Kajian ini secara mendalam menganalisis pengaruh bersama ketiga-tiga faktor ini., dengan harapan untuk menjadi rujukan asas untuk membantu institusi pendidikan atau jabatan pendidikan yang berkaitan dalam menggubal dasar pendidikan yang inovatif untuk mencapai pengurusan bilik darjah yang berkesan, menggalakkan tingkah laku maklum balas pelajar yang positif

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di dalam bilik darjah, dan meningkatkan efikasi kendiri guru. Ketiga-tiga faktor ini mewujudkan

kitaran murni, akhirnya membawa kepada pengalaman pendidikan yang lebih berjaya untuk

kedua-dua pelajar dan pendidik.

Kata kunci: Pengurusan pendidikan, Pengurusan bilik darjah, efikasi guru dan Tingkah Laku Pelajar

ABSTRACT

Educational management is a complex and multifaceted process, encompassing a wide range of

elements that are tightly interwoven. Among these, classroom management, teacher efficacy, and

student behavior stand out as pivotal components that significantly shape the educational landscape.

This study seeks to provide a comprehensive and nuanced analysis of the mutual influence between

these components by reviewing some related researches, unraveling their core roles in the success and

effectiveness of education. The analysis shows that effective classroom management enhances teacher

self-efficacy, promoting positive student participation, teachers' self-efficacy is intricately related to

students' learning motivation and behavior, and classroom management is shaped by both positive

and negative student feedback, which in turn influences teacher efficacy. This study deeply analyzes

the mutual influence of these three factors, with the hope of becoming a foundational reference to

assist relevant educational institutions or education departments in formulating innovative education

policies to achieve effective classroom management, encourage positive student feedback behaviors in

the classroom, and enhance teacher self-efficacy. These three factors create a virtuous cycle,

ultimately leading to a more successful educational experience for both students and educators.

Keywords: Educational management, Classroom management, teacher efficacy and Student Behavior

Introduction

1.1 Background

Education, as a cornerstone of society, is an ever-changing and multifaceted field. The dynamics of classroom management, teacher efficacy, and student behavior are particularly vital in shaping

educational experiences and outcomes. This complex interplay warrants a comprehensive

examination.

Importance of Educational Management

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Educational management transcends the administrative sphere, impacting the very core of the learning process. Its key components include:

1.Classroom Management: This encompasses a wide range of practices that create a structured and supportive learning environment. Effective classroom management involves clear communication, the establishment of routines, proactive engagement with students, and the development of a positive classroom culture (Franklin & Harrington, 2019). It also includes techniques for dealing with behavioral challenges, understanding individual student needs, and leveraging technology to enhance learning.

2.Teacher Efficacy: Teacher efficacy is rooted in a teacher's belief in their capability to influence student achievement positively. It affects planning, instructional delivery, classroom management, and the ability to adapt to diverse student needs (Burić & Kim, 2020). Teachers with high efficacy often demonstrate persistence, enthusiasm, and a willingness to try new approaches. They actively seek professional development opportunities and collaborate with colleagues to enhance their practice.

3.Student Behavior: Student behavior is a multifaceted aspect that greatly influences the classroom environment. From participation and engagement to discipline and collaboration, student behavior affects learning outcomes on multiple levels (Gage et al., 2018). Understanding the underlying psychological, social, and cultural factors that drive student behavior can provide insights into effective classroom management strategies and teacher-student relationships.

Existing Research Limitations

Despite considerable attention to these aspects in isolation, research often overlooks the interconnectedness between classroom management, teacher efficacy, and student behavior. This fragmentation has led to a lack of understanding of their cumulative impact and interdependencies. Additionally, existing research tends to focus on specific educational contexts or levels, limiting its applicability to broader educational settings and cultures.

The Need for a Comprehensive Approach

The entwined nature of these three components calls for a multifaceted analysis that recognizes their inherent interconnections and mutual influence. This study aims to bridge the existing research gap by offering a comprehensive and integrative examination. It seeks to:

- 1. Synthesize the diverse strands of research that explore classroom management, teacher efficacy, and student behavior.
- 2. Analyze how these elements interact within different educational contexts, considering various age groups, cultural backgrounds, and learning modalities.
- 3.Identify the gaps in current understanding and propose directions for future empirical and theoretical research.

By adopting this comprehensive approach, this study contributes to a more nuanced and holistic understanding of educational management. It provides actionable insights for educators, policymakers, and researchers, facilitating informed decisions that can enhance educational quality and equity across diverse learning environments.

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1.2 Purpose and Objectives

1.2.1 Research Purpose

The primary purpose of this research is to provide a comprehensive analysis of the intricate interplay between classroom management, teacher efficacy, and student behavior. Understanding this nexus is paramount for educators and decision-makers as it shapes the success and efficiency of education. It also resonates with the complexity that often characterizes the educational process, emphasizing the need for a thorough examination of these key components.

1.2.2 Research Objectives

The specific objectives of this research include:

Understanding the Dynamics: To explore and understand the dynamic relationship between classroom management, teacher efficacy, and student behavior, and how they collectively form a coherent educational experience.

Analyzing Existing Theories: To analyze various theories related to classroom management, emphasizing control theory and humanism, and evaluate the impact of teacher efficacy on educational strategies.

Examining Student Behavior: To investigate the dynamics of student behavior as reflections of classroom management and teacher efficacy, including the effects of positive and negative behaviors. Implications for Future Research: To identify potential areas for future research that might further elucidate the complexities of these relationships, considering different cultural and educational contexts.

By focusing on these objectives, the study aims to contribute to the body of knowledge surrounding educational management and present insights that could be beneficial for policy-making, teaching practices, and future scholarly inquiries.

1.3 Scope and Significance

1.3.1 Research Scope

This study focuses on the multifaceted relationships between classroom management, teacher efficacy, and student behavior, delineating the vital components that underpin educational success. The scope encompasses:

Time Frame: The research considers theories, methods, and practices from the last three decades to ensure a contemporary perspective.

Geographical Context: While the study is primarily based on Western educational systems, considerations are given to various cultural contexts to highlight universal and specific aspects.

Target Audience: The target population includes educators, policy-makers, students, and scholars, providing insights for a wide array of educational stakeholders.

1.3.2 Research Significance

The significance of this research lies in its potential to unravel the complex interconnections between critical elements of educational management. Its contributions include:

Practical Implications: Offering practical insights into effective classroom management, enhancing teacher efficacy, and fostering positive student behavior, which can inform educational strategies and policies.

Theoretical Contributions: Extending the understanding of existing educational theories and introducing a nuanced perspective on how they interact and influence each other.

Influence on Future Research: Paving the way for future studies to further explore these dynamics, particularly in various cultural and educational backgrounds, thereby enriching the academic discourse in this field.

This section firmly situates the research within a defined boundary and elucidates its potential impact on education practice, policy formulation, and future research. It aligns well with the overall focus of the study, emphasizing the importance of understanding the complex system of education management.

1.4 Structure of the Paper

This paper is organized into four main sections to provide a coherent and systematic exploration of the intertwined relationships between classroom management, teacher efficacy, and student behavior.

Introduction: The opening section sets the stage by discussing the importance of educational management and identifying the limitations of existing research. It also outlines the purpose, objectives, scope, and significance of this study.

Literature Review: This section delves into existing theories and methods regarding classroom management, the impact of teacher efficacy, and the dynamics of student behavior. It is divided into three equal subsections to address each topic comprehensively.

Findings: The findings section presents the core analysis of the study. It explores the connections between classroom management and teacher efficacy, the influence of teacher efficacy on student behavior, and how classroom management shapes student behavior.

Conclusion: The concluding section synthesizes the complex interactions between the three key components and offers directions for future research.

By outlining the structure here, readers are provided with a roadmap for navigating the content and understanding how the various elements of the research are connected.

2. LITERATURE REVIEW

2.1.1 Definition and Importance of Classroom Management

Definition

Classroom management is a complex, dynamic process that encompasses various aspects of teaching and learning. It includes creating an orderly environment, establishing and enforcing rules, promoting

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positive behaviors, and facilitating effective communication and engagement (Wolff et al., 2021). Classroom management is not just about control but creating an environment that fosters collaboration, creativity, and critical thinking.

Importance in Learning Environment

Effective classroom management is central to creating a positive learning environment. Well-managed classrooms are marked by higher levels of student engagement, lower disruptions, and more time spent on instruction (Franklin & Harrington, 2019). A structured environment that maintains discipline while encouraging student autonomy can lead to improved learning outcomes and overall academic success (Bonem et al., 2020).

Impact on Teacher Effectiveness and Satisfaction

Classroom management is intricately linked to teacher effectiveness. Teachers who demonstrate strong management skills are often more confident and effective in their instructional practices (Bardach et al., 2022). Additionally, effective classroom management is correlated with increased teacher satisfaction and retention, contributing to a more stable and productive educational environment (Celis et al., 2023).

Broader Implications for Educational System

Beyond individual classrooms, classroom management plays a vital role in the broader educational system. It is tied to school-wide discipline policies, community engagement, and the overall culture of the educational institution (Burden, 2020). Understanding the multifaceted nature of classroom management can inform policy and practice at multiple levels of the education system.

2.1.2 Theoretical Approaches to Classroom Management

Classroom management theories have evolved over time, reflecting different philosophical perspectives and educational priorities. Here, we will examine several key theoretical approaches that have shaped the field.

Behaviorist Approach

The behaviorist approach focuses on observable behaviors and emphasizes the role of reinforcement and punishment. Techniques such as praise, rewards, and consequences are used to shape student behavior. B.F. Skinner's operant conditioning is a classic example of this approach, where behavior is modified through reinforcement. This method offers a structured environment that can lead to immediate behavior changes but may overlook the underlying emotional or cognitive factors that drive the behavior (Skinner, 1953).

Humanistic Approach

In contrast, the humanistic approach emphasizes student autonomy, respect, and a nurturing environment. It focuses on the whole child and promotes self-directed learning. Carl Rogers's person-centered approach, which stresses empathy and the importance of the teacher-student relationship, exemplifies this perspective. This approach fosters self-esteem and creativity but may require more guidance and structure for students who struggle with self-direction (Rogers, 1969).

Social-Cognitive Approach

The social-cognitive approach integrates both behavioral and cognitive perspectives. It recognizes the role of thought processes, beliefs, and social interactions in shaping behavior. Bandura's theory of self-efficacy and social learning emphasizes modeling, self-regulation, and goal setting as key components of this approach. This perspective is useful for understanding how students' beliefs about their abilities can influence their motivation and learning but demands thoughtful implementation and understanding of individual differences (Bandura, 1977).

Ecological Approach

The ecological approach considers the broader context in which learning occurs, including the family, community, and culture. Bronfenbrenner's ecological systems theory explores the interconnectedness of different environmental systems and their impact on the learner. This theory offers a more comprehensive view of the child's development but can be complex to implement due to the multifaceted interactions between different systems (Bronfenbrenner, 1979).

Constructivist Approach

The constructivist approach emphasizes active learning, problem-solving, and the co-construction of knowledge. It encourages students to build on their existing understanding through exploration and discovery. Piaget's theory of cognitive development provides a foundational framework for this approach, encouraging an inquiry-based classroom where students construct their own knowledge, but it requires skilled educators to guide and assess learning without stifling creativity (Piaget, 1970)."

2.1.3 Methods and Strategies in Classroom Management

Classroom management is not just a theoretical concept but requires practical strategies and methods that can be applied in real-world classroom situations. The methods vary, catering to different learning environments, student needs, and educational philosophies. Below, we discuss some key strategies.

Setting Rules and Expectations: One of the foundational strategies in classroom management is establishing clear rules and expectations. Consistent and fair enforcement of rules creates a predictable environment that can foster a sense of security among students. Guidelines like those suggested by Burden (2020) help in forming a cooperative classroom community.

Motivational Systems: Motivation plays a vital role in engaging students in the learning process. Techniques that involve rewards, recognition, or other forms of reinforcement can boost students' participation and investment in their learning. Fischer et al critique (2019) of the reward system raises valid concerns about the long-term effects and intrinsic motivation, balancing the need for caution with potential gains.

Student Participation and Engagement: Active participation and engagement of students are crucial to their sense of ownership and understanding. Methods such as cooperative learning and student-centered activities promote critical thinking and foster a more democratic classroom environment. Qureshi et al. 's research (2023) on cooperative learning structures provides

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Cultural Responsiveness and Adaptation: In an increasingly diverse educational landscape, adapting classroom management techniques to reflect various cultural backgrounds and learning needs is essential. Gaias et al. 's work (2019) on culturally responsive teaching emphasizes the need for awareness and integration of diverse cultural norms and expectations.

Differentiation Based on Students' Needs: Differentiating instruction and classroom management strategies based on individual students' needs allow for a more personalized approach. Ismajli and Imami-Morina 's model of differentiated instruction (2018) offers a flexible framework to accommodate varying learning styles, abilities, and interests.

Utilizing Technology: The integration of technology into classroom management offers new avenues for engagement and organization. Tools like learning management systems can streamline processes and enhance communication.

In conclusion, classroom management methods and strategies need to be multifaceted, responsive, and flexible to cater to the complex dynamics of modern classrooms. The integration of these approaches can form a cohesive system that supports both teaching and learning, fostering a positive, productive classroom environment.

2.1.4 Challenges and Criticisms

Classroom management is not without its challenges and criticisms. A prevalent issue is the lack of consistent application, where methods and strategies might not be suitable for every educational context. Furthermore, implementing rules and incentive systems can be perceived as overly rigid, leading to dissatisfaction among students (Singh & Onahring, 2019). Critics argue that some approaches may inhibit creativity and critical thinking by overemphasizing discipline and control (Wangechi et al., 2018). This is particularly concerning in diverse classrooms, where a uniform approach may fail to meet the unique needs of every student (Ludvik, 2023).

Nevertheless, these challenges and criticisms are not insurmountable. Scholars advocate for adaptive and student-centered practices that reflect the diversity and individuality of learners, promoting a more effective and empathetic classroom environment (Qin et al., 2021). In conclusion, the insights derived from understanding these challenges and criticisms underscore the importance of nuanced, flexible strategies tailored to individual student needs and educational contexts.

2.2 Teacher Efficacy

2.2.1 Teacher Efficacy: Definition and Theoretical Background

Teacher efficacy, a multifaceted construct, refers to a teacher's self-belief in their capability to effectively teach and bring about desired student learning outcomes. It has become a focal point in educational research due to its potential impact on teaching practices and student achievement.

Definition

Teacher efficacy is rooted in the broader concept of self-efficacy, as described by Bandura (1977). In the context of education, it specifically relates to a teacher's belief in their ability to influence student engagement and achievement. Kim and Seo (2018) further refined this definition by emphasizing that teacher efficacy encompasses both the teacher's belief in their teaching ability and their judgment of the consequences of their teaching on students' learning.

Theoretical Background

The concept of teacher efficacy originated from the broader theory of self-efficacy, proposed by Albert Bandura in 1977. According to Bandura's theory, self-efficacy refers to an individual's belief in their ability to perform a specific task. This concept was applied to explain how teachers perceive their teaching abilities and infer how they might practice in the classroom.

Hajovsky et al. in 2020 applied the self-efficacy framework to teacher efficacy and defined it as "a teacher's judgment of his or her capabilities to bring about desired outcomes of student engagement and learning." This theory emphasizes that how teachers view their abilities has a direct impact on the teaching strategies they choose and the way they interact with students.

Since then, many studies have sought to understand how teacher efficacy operates in different environments and contexts. For example, some researchers explored how teacher self-efficacy interacts with the teaching environment, student backgrounds, and instructional resources. Aragona-Young and Sawyer's work in 2018 emphasized how teachers' beliefs and attitudes shape their teaching methods.

Conclusion

In summary, the theoretical background of teacher efficacy examines from various perspectives how teachers' sense of self-efficacy affects their teaching practice. From Bandura's self-efficacy theory to specific applications in the educational environment, these theories provide an in-depth understanding of how teacher efficacy is formed and how it impacts teaching. Thus, understanding the concept of teacher efficacy and its theoretical underpinning is crucial for exploring its effects on Classroom Management and Student Behavior.

2.2.2 Teacher Efficacy and its Relationship with Teaching Practice

How Teacher Efficacy Affects Teaching Strategies and Methods

Teacher efficacy profoundly influences the design and execution of teaching strategies and methods. Teachers with higher self-efficacy are not only more open to implementing innovative teaching practices but also show perseverance in the face of challenges. They are more flexible and able to adapt their teaching to the varied needs of individual students. They are more likely to encourage student autonomy, employ collaborative learning techniques, and experiment with new technologies in the classroom (Alibakhshi et al., 2020). This proactive approach to teaching facilitates more personalized and engaging learning experiences.

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Relationship Between High-Efficacy Teachers and Students

The relationship between high-efficacy teachers and students is multifaceted and pivotal for learning. Such teachers are noted for their ability to motivate and engage students, creating a more positive and inclusive learning environment. Their strong belief in students' capabilities translates into higher expectations and a more supportive atmosphere, fostering a growth mindset in learners. This often leads to increased student participation, improved self-regulation, and better academic achievement. Moreover, high-efficacy teachers tend to invest in fostering socio-emotional skills, thereby enhancing students' overall well-being and social integration (Schwab et al., 2020).

Integrating the Impact of Teacher Efficacy on Teaching Strategies and Classroom Management A broader view of teacher efficacy incorporates not only its impact on instructional strategies but also its role in shaping classroom management and the overall educational landscape. Akman (2020) notes that teachers with high self-efficacy are more confident in their ability to manage classrooms effectively, leading to proactive classroom management strategies that enhance learning. They are skilled in establishing classroom routines, setting clear expectations, and creating a positive learning atmosphere. This goes beyond mere discipline, promoting a culture of respect and collaboration among students. The understanding of teacher efficacy's multifaceted influence on education adds depth to how we perceive the role of teachers in shaping learning experiences, further emphasizing the importance of investing in teacher development.

2.2.3 Teacher Efficacy Measurement and Evaluation Methods

Teacher efficacy is central to effective teaching practices and impacts student outcomes. To capture this complex construct, various tools and methodologies have been developed.

Teacher Sense of Efficacy Scale (TSES): TSES is a widely used instrument to measure teacher efficacy, designed by Tschannen-Moran and Woolfolk Hoy. It consists of three dimensions: efficacy in student engagement, instructional strategies, and classroom management. The TSES is recognized for its reliability and validity in different cultural contexts (Burgueño et al., 2020).

Ohio State Teacher Efficacy Scale (OSTES): Developed by Tschannen-Moran and Woolfolk Hoy (Edinger & Edinger, 2018) as well, OSTES focuses on a broader range of teaching tasks. It has been used extensively in various educational research studies and shows robust psychometric properties.

Qualitative Approaches: Apart from quantitative measures, qualitative interviews and self-reflective journals are employed to capture the multifaceted nature of teacher efficacy. These methods offer a deep and contextualized understanding of teachers' beliefs and practices.

Observational Tools: Direct classroom observations using structured protocols, such as the Classroom Assessment Scoring System (CLASS), can provide a practical insight into a teacher's efficacy in the classroom environment (Black & Wiliam, 2018).

The choice of method depends on the research or evaluation context, the level of detail required, and the resources available. By employing a multifaceted approach to assessing teacher efficacy, researchers and practitioners can derive nuanced and actionable insights.

2.2.4 Long-Term Impact of Teacher Efficacy and Future Research Directions

Long-Term Impact on Teacher Satisfaction and Professional Development

Teacher efficacy has significant implications for long-term job satisfaction and professional growth. Those with a high sense of efficacy are more likely to find contentment in their work, persist in the face of challenges, and seek further professional development opportunities. Their strong belief in their ability to make a difference motivates them to enhance their teaching skills, fostering a continuous learning culture. This has positive ramifications not only for individual teachers but also for the broader educational community (Donohoo, 2018).

Influence on Educational Practices and Policies

High teacher efficacy transcends the classroom and can influence educational practices and policies. Teachers who believe in their ability to impact student learning are more likely to engage in school-wide initiatives, advocate for positive changes, and contribute to the shaping of educational policies (Donohoo, 2018). They are active agents in creating a more responsive and effective educational system that aligns with student needs and societal goals.

Future Research Directions

While substantial research has illuminated the role of teacher efficacy in education, numerous avenues remain to be explored. Future research might investigate how teacher efficacy develops over time, its interaction with different educational contexts, and its influence on various student populations, including those with special needs. More nuanced understanding of teacher efficacy could also extend to its interplay with educational technologies, interdisciplinary teaching, and global educational trends.

Concluding Remarks and Broader Importance

In sum, teacher efficacy is a multi-dimensional construct that has profound and far-reaching implications. Its influence extends from the classroom to the broader educational landscape, impacting teachers' professional lives, educational practices, and the students they teach. Further examination of teacher efficacy's nuances and applications in different educational contexts holds great potential for enhancing educational quality and shaping future educational trajectories. Understanding this intricate construct offers insight into the heart of education and points to exciting possibilities for future exploration.

2.3 Student Behavior

2.3.1 Student Behavior: Definition and Classification

Student behavior in the classroom can be dichotomized into positive and negative actions. Positive behaviors encompass active participation, eagerness to ask questions, collaboration with peers, and

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alignment with classroom goals, all of which contribute to a constructive learning atmosphere (Jannah & Anita, 2023). These behaviors reflect a student's engagement and motivation, which can be nurtured through effective teaching practices.

Conversely, negative behaviors include disruptions, lack of participation, resistance to instructions, and conflicts with peers. These behaviors can hinder the learning process, disrupt the classroom environment, and often reflect underlying issues such as lack of motivation, misunderstanding of the material, or personal conflicts. Addressing these negative behaviors requires comprehensive understanding and interventions tailored to the individual student's needs.

2.3.2 Related Theories and Perspectives on Student Behavior

Self-Determination Theory (SDT) underscores the critical roles of autonomy, competence, and relatedness in fostering positive learning behaviors in students. Autonomy, defined as the freedom of choice and self-direction in learning, has been found to enhance intrinsic motivation and engagement, acting as a catalyst for deeper understanding. Competence, on the other hand, relates to students' belief in their ability to succeed in learning tasks. This sense of competence fuels a higher commitment to learning, often leading to improved academic outcomes. Relatedness, involving the sense of connection with peers and teachers, strengthens students' interest and persistence in learning by fostering a sense of belonging (Deci & Ryan, 1985). A teacher's ability to create an environment that nurtures these three aspects requires adept classroom management and a strong sense of self-efficacy. Effective educators are not only aware of these principles but actively seek to implement strategies that align with them, promoting an environment where students are encouraged to take ownership of their learning, strive towards mastery, and cultivate meaningful relationships within the classroom (Hsu et al., 2019). By interweaving these aspects of SDT into daily practice, teachers can create a thriving educational ecosystem that encourages active student participation, aligns with individual needs, and ultimately results in enhanced learning outcomes.

Motivation Theory in education is concerned with identifying and understanding the driving forces that underpin student behavior, specifically focusing on how these drives can be influenced and guided by classroom management and teacher efficacy. At the core of this theory is the acknowledgment that students' intrinsic and extrinsic motivations are shaped by both internal factors like individual needs and interests, and external factors such as teacher guidance, classroom climate, and reward systems (Arkhipova et al., 2019). Teachers with high self-efficacy often demonstrate a profound ability to influence student motivation by setting clear expectations, providing feedback, and creating an environment that resonates with students' needs and goals Donohoo, 2018). Effective classroom management, on the other hand, ensures that these motivational strategies are implemented cohesively, fostering a culture that promotes engagement, persistence, and resilience in learning (Franklin & Harrington, 2019). By aligning motivation theory with pedagogical practice, educators can create a dynamic and responsive learning environment, where students are not only driven by their curiosity and desire to learn but also supported and nurtured through well-designed instructional strategies, resulting in improved learning outcomes.

Systems Theory in education stresses the intricate interdependencies between classroom management, teacher efficacy, and student behavior. These components are viewed as an interconnected system where changes in one part can have profound effects on the others (Mwambia, 2020). For instance, effective classroom management relies on teacher efficacy, which in turn influences student engagement and behavior, meanwhile, student behavior can shape both teacher efficacy and classroom dynamics, illustrating a complex, recursive relationship (Franklin & Harrington, 2019). This systemic perspective emphasizes that understanding and intervening in one area necessitates a comprehensive grasp of the entire system.

2.3.3 Measurements and evaluation methods of student behavior

Evaluating student behavior is a multifaceted task, requiring tools that can capture the complexity of attitudes, engagements, and behaviors in the classroom. One prominent method is the use of observation scales such as the Classroom Assessment Scoring System (CLASS) to gauge teacher-student interactions and student responsiveness (Virtanen et al., 2018). Surveys like the Motivated Strategies for Learning Questionnaire (MSLQ) can be used to measure students' motivation and learning strategies, providing insights into student self-regulation and effort (Wang et al., 2023). Additionally, teacher assessments and self-reports can be applied, which allow for subjective interpretations of student attitudes and classroom behaviors. These methods, combined, create a comprehensive picture of student behavior, enabling educators to make informed decisions and tailor instructional strategies to individual student needs.

2.3.4 The long-term impact of student behavior

The profound and lasting influence of student behavior transcends the boundaries of the classroom and shapes lifelong trajectories. In the realm of academic success, student behaviors such as engagement, cooperation, and diligence are pivotal. These behaviors lay the foundation for future educational choices and professional pursuits. Positive student behavior also enhances self-efficacy and self-image, critical components for long-term success and fulfillment (Wu et al., 2020). Furthermore, the manner in which students approach their education, exemplified by their determination and sense of responsibility, has proven to lead to greater retention and better overall performance. These insights provide educators and policymakers with the tools to cultivate an environment that not only facilitates immediate success but also fosters lifelong growth and fulfillment.

On the other hand, student behavior's influence on self-concept and future career paths cannot be underestimated. Nurhayati, Rosmaiyadi & Buyung (2018) have revealed how positive student behaviors such as collaboration and discipline are instrumental in shaping self-confidence and a favorable self-image, attributes that are intrinsically linked to success in higher education and the professional world. This observation further emphasizes the necessity of encouraging these behaviors from an early age, equipping students with the skills required to navigate the complex landscape of adult life. Additionally, student behavior patterns also have a tangible impact on adaptability and

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achievements in the workplace, underlining the long-term importance of fostering positive attitudes and behaviors. In sum, the extensive research in this field illustrates a multi-dimensional picture of how student behavior significantly impacts individual growth, societal progress, and human potential, thereby emphasizing the critical need to address this aspect within educational systems.

3. RESEARCH FINDINGS

3.1 The Interaction Between Classroom Management and Teacher Efficacy

3.1.1 The impact of Teacher Self-efficacy on Classroom Management

Teacher self-efficacy plays a significant role in classroom management strategies. Bandura (1997) defined self-efficacy as the belief in one's abilities to accomplish specific tasks. In the context of teaching, this can relate to the confidence and capability to manage classroom dynamics effectively. Research by Yildiz et al. (2022) illustrates that teachers with high self-efficacy are more likely to adopt proactive and student-centered strategies, reducing disruptive behavior in the classroom. Furthermore, self-efficacy influences not only the teacher's classroom management but also the quality of the learning environment. A study by Zhang (2021) found that teachers with a strong sense of self-efficacy fostered a more positive and engaging learning atmosphere. These teachers demonstrated greater adaptability in response to classroom challenges and were more adept at creating supportive and stimulating environments, thus enhancing the overall effectiveness of classroom management.

Positive teaching strategies are closely linked to teacher efficacy, and a robust sense of efficacy can stimulate proactive and targeted approaches in the classroom. A seminal work by Zainal and Mohd (202) elucidates the relationship between teacher self-efficacy and the willingness to implement innovative teaching strategies. According to their findings, teachers with higher self-efficacy are more inclined to explore new methods, thus positively influencing classroom management. Moreover, the adaptive and responsive strategies driven by high teacher efficacy have been shown to enhance student engagement and learning. Molatodi (2018) found that teachers who believed in their ability to execute specific teaching strategies effectively were more successful in creating an interactive and responsive classroom environment. Their aptitude to align teaching methods with students' needs not only facilitated better classroom management but also contributed to higher student achievement.

3.1.2 The impact of Classroom Management on Teacher self-efficacy

Effective classroom management contributes significantly to the creation of an environment conducive to learning. Arshad et al. (2018) stressed that a well-structured classroom setting could foster a positive learning atmosphere. The clarity of rules, the organization of space, and the timely responses to student needs are all pivotal components in building a classroom environment that enhances teacher efficacy. A well-managed classroom not only helps maintain student engagement but also empowers teachers to operate with greater confidence and agility. Furthermore, Bay (2020) provided evidence that specific classroom management techniques are directly linked to increased

teacher effectiveness. The strategies such as setting clear expectations, providing consistent feedback, and creating a respectful and collaborative atmosphere were found to amplify teacher efficiency. By applying these strategies, teachers can create a classroom environment where both teaching and learning are optimized, contributing to a stronger sense of teacher efficacy.

Empirical research also has shed light on the positive correlation between classroom management and teacher efficacy. In a comprehensive meta-analysis, Tulyakul, Fauzee, and Hussin (2018) found that classroom management is one of the strongest factors affecting teacher efficacy. Effective management practices, such as clear communication, student engagement strategies, and conflict resolution, lead to a higher sense of accomplishment in teachers. Teachers who master these skills often report greater confidence and belief in their ability to impact student learning positively.

Further support comes from a study by Zee et al. (2018), who examined the relationship between teachers' beliefs about their instructional capabilities and their actual effectiveness. They found that teachers' self-efficacy beliefs were significantly correlated with students' academic achievement. This reveals that effective classroom management does not only enhance the teacher's sense of efficacy but also translates into tangible academic gains for students. Hence, the empirical evidence underscores the importance of classroom management in boosting both teacher efficacy and student success.

3.1.3 Challenges and Limitations

Understanding the intricate relationship between classroom management and teacher efficacy presents various challenges. Research by Tomlinson and Imbeau (2023) has shown that the complexity of classroom dynamics can make it difficult to establish clear cause-and-effect relationships. Classroom management is a multifaceted process that requires nuanced understanding and adaptation to diverse student needs, cultural contexts, and educational settings.

Another challenge lies in implementing evidence-based practices of classroom management to enhance teacher efficacy. A study by Leithwood, Jantzi and Steinbach (2021) revealed that there's a gap between research findings and classroom practice. Teachers often face difficulties in translating research into actionable strategies, and many educational institutions lack the support and resources needed to foster effective classroom management practices. This disconnect impedes the potential positive impact of classroom management on teacher efficacy.

Moreover, existing research has some limitations that have yet to be addressed. There is a recognized need for more longitudinal and context-specific studies to understand how classroom management affects teacher efficacy over time and across different settings. This highlights the importance of exploring individual differences among teachers and students, as well as considering the role of administrators and policymakers in shaping the effectiveness of classroom management strategies.

3.2 The Interaction Between Teacher Efficacy and Student Behavior

3.2.1 The impact of Teacher Efficacy on Student Behavior

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Teacher self-efficacy is an essential component that affects students' attitudes and behavior in the classroom. Bandura's theory of self-efficacy emphasizes that educators' belief in their abilities to successfully execute teaching strategies is central to the educational process (Bandura, 1997). This confidence not only facilitates the teacher's instructional techniques but also resonates with the students, cultivating a positive learning environment. A study by Mahardika and Mbato (2022) indicates that teachers with high self-efficacy are more likely to adopt innovative strategies, directly impacting students' attitudes and openness to learning. Moreover, teacher self-efficacy significantly influences student motivation. According to research by Zhang (2021), teachers who demonstrate high confidence and competence in their subject matter are more likely to foster intrinsic motivation among students. Such motivation results in greater student engagement and an increased desire to excel in the classroom. The work of Murillo and Tejada(2022) also supports this connection, illustrating that teachers' positive self-perceptions of their abilities lead to better student performance and higher levels of motivation.

Besides, effective teaching methods and strategies play a crucial role in engaging students in the learning process. According to Knight (2019), teacher clarity, feedback, and classroom discussion are among the most powerful influences on student achievement. These strategies encourage student participation by providing clear instructions, immediate feedback, and opportunities for collaborative learning. For instance, Kinley and Pradhan's study (2022) highlighted that a teacher's supportive behavior, such as encouraging questions and interactive discussions, leads to higher student engagement and participation. Moreover, the choice of teaching methods directly affects student motivation and learning behavior. Deci, Vallerand, Pelletier, and Ryan's Self-Determination Theory (1991) stresses that autonomy-supportive teaching strategies foster intrinsic motivation among students.

3.2.2 The impact of Student Behavior on Teacher Efficacy

Student feedback plays a vital role in shaping teachers' instructional practices. Feedback from students can be both formal, such as through structured assessments, and informal, such as verbal responses and non-verbal cues in the classroom. According to Irons and Elkington (2021), formative assessment practices that include student feedback are effective in guiding teachers' instructional decisions. When students actively engage with the learning material and provide insights into their understanding, teachers can gauge the effectiveness of their instructional strategies and make necessary adjustments. This process fosters a more adaptive teaching approach, allowing educators to respond to individual and collective student needs.

Furthermore, student feedback can be instrumental in professional development for teachers. Student achievement data and feedback are vital sources of information for teachers' reflection and continuous learning. By closely examining students' responses and performance, teachers can identify areas of strengths and weaknesses in their teaching methods. This reflective practice encourages teachers to be more aware of their pedagogical choices, ultimately contributing to enhanced teaching efficacy and more personalized learning experiences for students (Motallebzadeh et al., 2018).

What is more, student behavior in the classroom can have a profound impact on teachers' emotions,

motivation, and consequently, their teaching efficacy. Both positive and negative student behaviors can shape teachers' psychological states and influence their teaching practices. Positive student behavior, such as engagement, attentiveness, and eagerness to learn, can enhance teachers' motivation and satisfaction. Conversely, disruptive or disengaged student behavior can lead to frustration and stress for teachers, potentially reducing their enthusiasm and effectiveness in teaching (Beymer et al., 2022). This complex interplay between student behavior and teachers' emotional responses underscores the importance of creating a conducive classroom environment and implementing effective classroom management strategies. Research by Dewaele and Li (2021) further illustrates that understanding and managing the emotional dynamics in the classroom are vital for enhancing teacher efficacy and the overall learning experience.

3.2.3 Challenges and Limitations

Implementing theoretical understanding of the relationship between teacher efficacy and student behavior into actual classroom practice poses substantial challenges. While theories may suggest clear pathways, real-world classrooms are multifaceted environments, and teachers often face difficulties in adapting theoretical insights to their specific contexts. These challenges may include disparities in student abilities, diverse learning styles, and variations in classroom dynamics that are not always accounted for in theoretical models .Moreover, current research on the relationship between teacher efficacy and student behavior has certain limitations, including a lack of comprehensive consideration of factors such as cultural differences, teacher training, and age variations among students. Cultural nuances may lead to different interpretations of student behavior, and variations in teacher training can create inconsistencies in teaching practices.

In addition, policy and resource constraints also play a critical role in shaping the interaction between teacher efficacy and student behavior. Educational policies, often rooted in broader governmental or institutional directives, can dictate teaching methods and curriculum, sometimes limiting teachers' flexibility and creativity in responding to individual student needs (Schulte, 2018). This constraint may result in a one-size-fits-all approach that doesn't account for the diverse learning styles and needs of students. Additionally, limitations in school resources such as lack of access to necessary materials, technology, or support staff can further constrain teachers' ability to implement effective strategies to foster positive student behavior (Vink, 2019). These limitations include difficulties in providing personalized attention, employing innovative teaching tools, or even maintaining basic classroom supplies. Together, these policy and resource constraints form a complex web of factors that can significantly affect the quality of education, highlighting the multifaceted nature of teaching where external influences can often overshadow the intrinsic motivation and skills of educators, thereby impacting their efficacy in managing classrooms and nurturing positive student behavior.

3.3 The Interaction Between Classroom management and Student Behavior

3.3.1 The impact of Classroom management on Student Behavior

Classroom management significantly impacts students' autonomy, competence, and relatedness, consistent with Self-Determination Theory (Deci & Ryan, 1985). Effective classroom management

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strategies cater to these intrinsic needs, fostering a learning environment that enhances students' intrinsic motivation. According to Self-Determination Theory, meeting students' innate needs in these areas promotes active engagement and positive learning behaviors.

The implementation of classroom rules and discipline forms an integral part of building a constructive learning environment. According to Yoo (2021), clear rules, consistent discipline, and well-defined expectations contribute to a sense of order and safety, influencing students' motivation to learn. Such classroom management strategies align with motivational theories that emphasize understanding the driving forces behind student behavior.

Teacher-student interaction is pivotal in shaping students' behavior and learning engagement. Teachers' ability to manage classroom dynamics effectively encourages positive student participation (Franklin, 2019). Building good relationships and encouraging active student participation fosters a positive learning environment, as reinforced by the humanistic approach in education (Rogers, 1969).

In summary, classroom management is a multifaceted construct that influences student behavior through theoretical frameworks such as Self-Determination Theory, establishing classroom rules and environment, and fostering meaningful teacher-student interactions. These aspects work together to shape students' behavior and create an effective and positive learning environment.

3.3.2 The impact of Student Behavior on Classroom management

Student behavior serves as critical feedback reflecting the success or failure of classroom management. According to motivation theories, students' responses offer valuable insights into what drives them, enabling educators to tailor classroom strategies (Boström & Bostedt, 2020). Positive student behavior signals effective management, guiding teachers to reinforce successful techniques, while negative behavior necessitates adjustments. Bandura's (1977) social learning theory further emphasizes that students' actions, as observable feedback, are essential in modifying classroom management strategies.

As we mentioned in chapter 3.2.2, the nature of students' behavior directly influences teachers' self-efficacy, consequently affecting classroom management's effectiveness. Positive student behaviors enhance teachers' belief in their capabilities, fostering more effective classroom management. Conversely, disruptive student behavior can undermine teachers' confidence, leading to less effective management. This intricate relationship aligns with the concept of reciprocal determinism (Bandura, 1978), where behavior, personal factors, and the environment constantly interact and influence each other.

Besides, the dynamic and complex interaction between student behavior and classroom management can be understood from a systems theory perspective. Pazicni and Flynn (2019) highlights that systems thinking considers the interconnections and interdependencies in a classroom. Thus, student behavior and classroom management are part of an intricate system where one continuously shapes and is shaped by the other, necessitating a holistic approach to understanding and improving educational practices.

3.3.3 Challenges and Limitations

The intricate interaction between classroom management and student behavior is influenced by cultural and educational backgrounds, posing unique challenges. Cultural diversity impacts how classroom rules and relationships are perceived and requires nuanced management strategies tailored to various cultural contexts (Tomlinson & Imbeau, 2023). Thus, the limitation of conventional educational methods is highlighted when addressing specific student behaviors. These strategies might work inconsistently across different cultures and contexts, emphasizing the need for a flexible and culturally aware approach to classroom management (Ospinan & Medina, 2020).

Looking ahead, the field of classroom management faces the challenge of developing innovative solutions that are adaptable to diverse student behaviors. Emphasis must be placed on crafting personalized learning experiences, perhaps through the integration of technology (Green, 2018), and on employing instructional methods that respond to individual student needs (Bondie et al., 2019). Such endeavors, while promising, must also consider the practical challenges and limitations in execution, ensuring that new approaches align with overarching educational goals without compromising feasibility (Zhao, 2018).

Discussion

This study embarked on an in-depth exploration of three pivotal components in the field of education: classroom management, teacher efficacy, and student behavior. At first, we dissected the multifaceted nature of classroom management, emphasizing the significance of structured and supportive learning environments. Then, we delved into teacher efficacy, a complex construct that encapsulates a teacher's belief in their ability to foster desired learning outcomes, becoming a focal point in contemporary educational research. At last, we illuminated the complex interaction between classroom management and student behavior, including the mutual impacts such as the influence of student behavior on classroom management and vice versa. These intricate relationships not only shape the educational experience but also pave the way for innovative strategies to enhance educational quality. This conclusion will further synthesize these elements, summarizing key findings and implications for future research and practice.

1. Complex Interactions

The interplay of classroom management, teacher efficacy, and student behavior, as explored in the preceding chapters, forms a complex nexus shaping the educational landscape. In Chapter 2, we elucidated that classroom management is not merely an administrative function but penetrates to the core of the learning process, encompassing strategies that foster an environment conducive to learning. It highlighted the wide range of techniques including the establishment of rules, routines, relationships, and disciplinary interventions.

We also shed light on teacher efficacy, a critical construct referring to a teacher's belief in their ability

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to effectively teach and impact student learning outcomes. Rooted in the broader concept of self-efficacy, it has surfaced as a central theme in educational research, influencing teaching practices and student achievements. The connection between teacher efficacy and classroom management was accentuated, displaying how effective management builds teachers' confidence and competence.

Moreover, we delved into the significant impact of classroom management on student behavior. It revealed how management strategies cater to students' intrinsic needs such as autonomy, competence, and relatedness, consistent with Self-Determination Theory (Deci & Ryan, 1985). The chapter also unfolded the symbiotic relationship between classroom management and student behavior, emphasizing the need for strategies tailored to individual student needs.

Collectively, these insights present a multifaceted view of the educational process. The complex interactions between classroom management, teacher efficacy, and student behavior are pivotal in determining educational outcomes. Understanding these interactions not only paves the way for more effective pedagogy but also highlights the challenges and opportunities inherent in the modern educational landscape.

2. Enhancing Educational Quality

Understanding and utilizing the triad of classroom management, teacher efficacy, and student behavior is paramount to improving educational quality. Research emphasizes the symbiotic relationship between these three components. Classroom management, grounded in well-defined rules and an orderly environment, contributes to the empowerment of teacher efficacy, which in turn shapes student behavior positively. Embracing a student-centered approach through active engagement and creativity fosters a learning environment where the collaboration between students and teachers thrives. A study by Saeed et al. (2022) further underlines the significance of a proactive approach, where teachers' confidence and adaptability create a positive and engaging learning atmosphere.

Practical applications and practices can be seen in various educational settings. For example, schools adopting a whole-school approach to classroom management have shown improvements in teacher efficacy, which subsequently enhances student learning outcomes (Ruttledge, 2022). In this approach, consistent communication, clear expectations, and tailored strategies align with individual students' needs, leading to a more responsive classroom environment. The integration of technology, such as Learning Management Systems (LMS), also plays a role in bridging the gap between the triad, fostering a seamless connection between classroom management, teacher efficacy, and student behavior.

Implementation, however, is not without challenges. Navigating the complex dynamics between classroom management, teacher efficacy, and student behavior requires continuous professional development and support. Teachers may face obstacles in adapting new methods and maintaining consistency across diverse learning environments. Collaborative efforts, ongoing training, and reflective practice are key to overcoming these challenges (Davenport, 2020). Engaging with educational research and employing evidence-based strategies ensure that teachers are equipped to navigate the complexities of the educational landscape.

3. Future Research Directions

The field of education provides numerous avenues for future research, particularly concerning the intricate relationship between classroom management, teacher efficacy, and student behavior. The integration of technology and digital tools in education, for instance, offers a fertile ground for examining how modern innovations can be harmonized with traditional classroom management techniques (Mdhlalose & Mlambo, 2023). Investigating the effectiveness of blended learning strategies and the role of Artificial Intelligence (AI) in enhancing teacher efficacy can reveal new insights into contemporary educational practices.

The dynamic relationship between the aforementioned trio is not confined to a single cultural or educational background, necessitating research that transcends these boundaries. The adaptation of classroom management strategies across diverse cultural contexts, and how these adaptations influence teacher efficacy and student behavior, provides a rich domain for exploration. A comparative study between Western and non-Western educational systems and policy, for example, can shed light on the universality or specificity of certain practices, thereby enriching the global understanding of effective education (Nieman & Allamong, 2021).

In conclusion, the multifaceted interactions between classroom management, teacher efficacy, and student behavior warrant comprehensive and nuanced exploration. Future studies may delve into longitudinal research, tracking the evolution of these interactions over time, or focus on targeted interventions tailored to specific educational needs (Ecalle et al., 2022). Understanding the underlying mechanisms and contextual influences that govern these relationships will not only advance academic knowledge but also equip educators with practical tools and strategies to navigate the ever-evolving landscape of education.

Conclusion

The comprehensive examination of classroom management, teacher efficacy and student behavior has unearthed significant insights into the complex dynamics governing educational quality. The interconnectedness of these components, as highlighted in this study, emphasizes the importance of a holistic approach to education. Proactive classroom management strategies, bolstered by teacher confidence and adaptability, have been shown to foster a positive and engaging learning environment (Arshad et al., 2018). The integration of technology and the tailoring of strategies to individual student needs represent innovative pathways to enhance educational effectiveness. In conclusion, the findings of this study underscore the vital role that the synergy between classroom management, teacher efficacy, and student behavior plays in shaping educational quality. The multifaceted relationships, as explored in this research, provide both educators and policymakers with actionable insights and tools to navigate the ever-evolving educational landscape. The integration of research-based strategies and continuous professional development ensures a robust and responsive education system, thereby setting the stage for a brighter educational future.

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