Evolving Learner-Centred Mindset with Digital Learning Culture and Its Impact on Exam Related Tension: A Study on Selected High School Students in Kolkata

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Abstract

In the wake of the global pandemic, the education landscape has undergone a significant transformation, with virtual learning becoming the new norm for students across the world. This research article delves into the intricate relationship between the virtual learning culture and its influence on exam-related tension among high school students in Kolkata, India. By investigating the experiences of a selected group of students, the study aims to uncover the multifaceted effects of virtual learning on academic stress and to provide insights that can guide educators and stakeholders in mitigating these challenges. The study employs a quantitative methods approach, incorporating quantitative surveys to achieve a comprehensive understanding of the phenomenon. A sample of high school students from selected schools in Kolkata are chosen to participate in the study, ensuring a diverse representation of backgrounds and experiences. The quantitative phase involves the distribution of surveys designed to assess the students' perceptions of virtual learning, levels of exam-related tension, and their coping mechanisms. The objectives of the research are (a) To investigate the relationship between virtual learning culture factors and exam-related tension among high school students in Kolkata. (b) To determine whether spending more hours in virtual learning is associated with changes in exam-related tension, and whether this relationship is statistically significant. (c) To explore the impact of peer interaction in virtual learning environments on students' levels of exam-related tension and assess the statistical significance of this association. (d) To examine the influence of access to learning resources in virtual settings on exam-related tension and establish whether this relationship is statistically significant. By illuminating the intricate dynamics between virtual learning culture and exam-related tension, this research article contributes to the growing body of knowledge surrounding online education's impact on student well-being. The study's findings have implications for educational institutions aiming to enhance their virtual learning strategies and ensure a more supportive and stress-free academic environment for high school students in Kolkata and beyond.

Keywords:

Virtual Learning Culture, Exam-Related Tension, Academic Stress High-school students, Virtual Learning Platforms, Psychological Well-being.

Introduction

In the 21st century, the landscape of education has witnessed a remarkable transformation with the widespread adoption of virtual learning. The advent of digital technologies has opened up new frontiers, allowing students to access educational content and resources from the comfort of their homes. Amid this paradigm shift, it becomes imperative to scrutinize the intricate relationship between virtual learning culture and the psychological well-being of students during a critical juncture of their academic journey: examinations.

This research embarks on a compelling exploration into the world of high school students in Kolkata, a bustling metropolis in India, and their encounters with virtual learning culture. As technology-driven educational platforms continue to proliferate, understanding the impact of these digital spaces on the stress levels and emotional states of students during examinations becomes not only timely but essential. The crux of this study revolves around the overarching question: How does virtual learning culture influence exam-related tension among high school students in Kolkata? To unravel this multifaceted inquiry, we delve into specific facets of virtual learning culture, including the number of hours students invest in virtual learning, their frequency of interaction with peers in digital environments, and their access to learning resources within these platforms.

As we journey through this exploration, we aim to shed light on the nuanced interactions between students and the virtual learning landscape. By doing so, we hope to contribute to the growing body of knowledge on how to optimize virtual learning environments, reduce academic stress, and create a more supportive educational ecosystem for the students of tomorrow.

Literature Review Virtual Learning Culture

India has a rich history of education and a diverse cultural landscape, making the adoption of virtual learning a unique challenge. Virtual learning platforms like Zoom, Google Meet, and online learning management systems have become common in Indian education, albeit with varying levels of acceptance and infrastructure readiness. A survey of Indian literature reveals a growing body of research on the subject.

A study by Kapoor and Gupta (2020) investigated the adoption of virtual learning among Indian students during the pandemic. The research found that while students appreciated the flexibility, they encountered technical challenges, leading to increased anxiety. This aligns with the concerns expressed by students in Kolkata.

Sharma (2020) investigates the challenges and adaptations required for Indian learners in the context of online education. The author explores how cultural factors impact the effectiveness of online learning, emphasizing the need for educators and institutions to recognize and accommodate India's diverse cultural landscape. Sharma's case study highlights the significance of cultural sensitivity and pedagogical adjustments in online learning environments. In his study he offers practical recommendations for educators to better tailor online courses to align with the cultural expectations and preferences of Indian learners, thereby enhancing the quality and inclusivity of online education in India.

Sinha and Verma (2019) investigate the challenges of integrating virtual learning within the unique cultural landscape of India. The authors argue that the effectiveness of virtual learning in India hinges on adapting pedagogical methods and technology to align with cultural norms and values. They stress that cultural sensitivity is pivotal in online education, suggesting that educators and policymakers need to consider India's diverse cultural landscape when implementing virtual learning initiatives. They provide practical insights into how to bridge the gap between virtual education and India's rich cultural heritage, facilitating more meaningful

and effective online learning experiences. They also emphasize the impact of cultural factors on the effectiveness of virtual learning environments for Indian students.

Jasola and Gupta (2016) investigate the emergence and dynamics of virtual learning communities within higher education institutions in India. They emphasize the role of digital learning environments in fostering collaboration, knowledge sharing, and engagement among students and faculty. The authors delve into the unique challenges and opportunities presented by these virtual communities in the Indian context. They stress the need for tailored strategies and support systems to harness the potential of virtual learning communities effectively Mitra(2015) delves into the concept of self-directed learning among rural Indian students in virtual settings. Mitra highlights that these students, often lacking access to conventional educational resources, can exhibit a remarkable capacity for self-directed learning when provided with digital tools and resources. His research emphasizes the importance of cultivating intrinsic motivation and curiosity, noting that rural Indian students can excel in self- directed online learning when empowered to explore topics of personal interest.

Ranganathan and Ganesh (2009) delve into the landscape of virtual learning environments (VLEs) in Indian higher education. They conduct an exploratory examination of the adoption and effectiveness of VLEs in the Indian context. The authors identify various challenges, including limited infrastructure and faculty readiness, that hinder the widespread implementation of VLEs. They stress the importance of faculty development programs and investment in technological infrastructure to fully leverage the potential of VLEs in Indian higher education.

Mishra and Jain (2007) examine the effects of virtual learning on the traditional Indian education system. They emphasize the challenges and opportunities that arise as technology infiltrates the educational landscape. The authors sheds light on the evolving educational paradigm in India, offering insights into the delicate balance between embracing technology-driven innovations and preserving the cultural and pedagogical foundations of traditional Indian education.

Sharma and Reddy (2006) investigate the emergence and dynamics of virtual learning communities within Indian universities. They conduct a comparative analysis to understand the factors influencing the development and effectiveness of these communities. The authors highlight the role of virtual learning communities in fostering collaboration, knowledge sharing, and peer interaction among students and faculty. They identify challenges related to infrastructure and faculty engagement while emphasizing the need for tailored strategies to enhance the success of virtual learning communities in the Indian higher education context. Gupta and Chatterjee (2005) provide a comprehensive examination of the state of technology-mediated learning in Indian schools to understand the evolving landscape of educational technology in Indian schools. They offer an overview of the adoption and implementation of educational technology, highlighting its impact on teaching and learning processes. The authors discuss the challenges and opportunities presented by technology in Indian classrooms, emphasizing the need for effective integration and teacher training. Gupta and Chatterjee's work serves as a valuable resource for educators, policymakers, and researchers seeking to understand the evolving landscape of educational technology in Indian schools.

Exam-Related Stress in Indian Context

The Indian education system is notorious for its rigorous exams, which often result in high levels of stress among students. Literature suggests that exam-related stress existed before the pandemic, but virtual learning may have exacerbated it. A study by Sharma et al. (2019) explored the factors contributing to exam-related stress among Indian students. Their findings identified factors such as parental pressure, competition, and fear of failure. This literature underscores the significance of studying how virtual learning contributes to this stress.

Agarwal (2021) explores the challenges associated with exam-related stress among Indian students and offers practical coping strategies. Drawing from stress management principles, the author discusses various techniques and approaches tailored to the Indian educational context. She underscores the importance of resilience, time management, and effective study habits. Agarwal's work argued to provide guidance to Indian students, educators, and parents, helping them navigate the pressures of exams and cultivate healthier approaches to academic success.

Sharma (2019), on his article "A Psychological Perspective" delves into the psychological aspects of exam-related stress in Indian school students. The author conducts a comprehensive analysis, shedding light on the factors contributing to heightened stress levels during exams, such as parental pressure and academic competition. Sharma explores the emotional and cognitive impacts of this stress, emphasizing its potential negative consequences on students' mental well-being and academic performance. Through this psychological lens, the article underscores the need for supportive and nurturing learning environments and highlights the importance of stress management interventions in Indian schools to mitigate the adverse effects of exam-related stress on students.

Nanda (2017) offers a comprehensive guide to help Indian students cope with the stress associated with exams. She discusses a range of stress management strategies tailored to the Indian educational context. These techniques include time management, relaxation exercises, mindfulness, and effective study habits. Nanda emphasizes the importance of self-care, mental resilience, and seeking support from parents and educators. Her chapter serves as a practical resource, providing Indian students with actionable strategies to alleviate the pressures of exams and improve their overall well-being and academic performance.

Srivastava (2015) delves into the repercussions of exam-related stress on the mental health of Indian college students. He conducts an in-depth investigation, examining the emotional and psychological toll of high-stakes exams. The study highlights the prevalence of anxiety, depression, and other mental health challenges among students during exam periods. Srivastava underscores the urgency of addressing this issue, advocating for increased mental health support and stress management interventions within the Indian higher education system. His research contributes valuable insights into the often-overlooked aspect of mental well-being amid the pressures of exams in India.

In her 2013 article, "Parental Pressure and Exam-Related Tension Among Indian Adolescents," Sharma (2013) in her article, "Parental Pressure and Exam-Related Tension Among Indian Adolescents," investigates the significant influence of parental pressure on the exam-related tension experienced by Indian adolescents. The study delves into the dynamics of parental expectations and the resulting stress faced by students. Sharma discusses how these pressures can lead to heightened anxiety, reduced self-esteem, and even academic underperformance. She

emphasizes the need for a balanced approach to parental involvement, calling for greater awareness and understanding of the psychological impact of such pressure.

Joshi (2010) explores the relationship between exam anxiety and academic performance among Indian students. The study investigates how heightened anxiety levels during exams can detrimentally affect students' learning outcomes and overall educational experiences. Joshi highlights the importance of recognizing and addressing exam anxiety, advocating for educational interventions that include stress management programs and holistic support systems. His research underscores the need for a more comprehensive approach to education in India, one that prioritizes not only academic excellence but also the mental well-being of students to help them thrive in the face of exam-related challenges.

Gupta (2008) investigates the multifaceted impact of exam stress on the physiological and psychological well-being of Indian school students. The research delves into the physiological responses such as increased heart rate and hormonal changes, as well as the psychological effects such as heightened anxiety and reduced concentration that students experience during exams. Gupta's study highlights the significant toll exam stress can have on students' overall health and academic performance. By shedding light on these effects, the research highlights the urgent need for stress management and support mechanisms within the Indian educational system to mitigate these adverse consequences.

Agarwal and Reddy (2003) explore the intricate relationship between parental involvement and student stress within the Indian context. The authors examine how varying levels and types of parental involvement, ranging from support to pressure, influence the stress levels of students. They emphasize the significance of a balanced and supportive parental role in enhancing a student's well-being and academic performance. Agarwal and Reddy's research reviles the importance of recognizing the nuanced dynamics of parental involvement in India and its impact on the stress experienced by students striving for academic success.

Research Gap

In the field of "Navigating Virtual Learning Culture and its Impact on Exam-Related Tension," two significant research gaps exist. Firstly, there's a need for more comprehensive and longitudinal investigations that go beyond the static view provided by current research. Long-term studies tracking students' experiences with virtual learning culture and how their stress levels evolve over time can offer a deeper understanding of its lasting effects, adaptations, and coping mechanisms. Secondly, the effectiveness of interventions and strategies to mitigate exam-related tension in virtual learning environments requires rigorous empirical evaluation. Research should assess which strategies are most effective across various cultural and educational contexts, considering their long-term impact on student well-being and academic performance. Additionally, exploring the roles of educators and parents in implementing these strategies and their effectiveness in reducing tension is crucial for better supporting students in virtual learning settings.

Objectives

Objectives aim to guide this research study in exploring the complex dynamics between virtual learning culture and students' stress levels during exams while considering the specific context of high school students in Kolkata. After going through the literature review and research gap, the main objectives for this study are:

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- 1. To investigate the relationship between virtual learning culture factors and exam-related tension among high school students in Kolkata.
- 2. To determine whether spending more hours in virtual learning is associated with changes in exam-related tension, and whether this relationship is statistically significant.
- 3. To explore the impact of peer interaction in virtual learning environments on students' levels of exam-related tension and assess the statistical significance of this association.
- 4. To examine the influence of access to learning resources in virtual settings on examrelated tension and establish whether this relationship is statistically significant.

 The Secondary Objectives are:
- 5. To assess the direction (positive or negative) and strength of correlations between virtual learning culture factors and exam-related tension.
- 6. To identify potential moderating variables that may influence the relationships observed between virtual learning culture factors and exam-related tension.
- 7. To provide recommendations for educational institutions and policymakers on how to optimize virtual learning environments to reduce exam-related tension among high school students.

Research Design

This study adopts a quantitative method approach to gather quantitative data. By combining surveys and interviews, a comprehensive understanding of the phenomenon is achieved.

Participants

A purposive sampling technique is employed to select high school students from various schools in Kolkata. This approach ensures the inclusion of students from diverse backgrounds and experiences, offering a more holistic view of the subject matter.

Sample Size

The sample size for your research study is 250 high school students in Kolkata. Data are collected and analyzed from 250 participants as part of this research.

Data Collection Quantitative Phase

The quantitative data collection involves the distribution of structured surveys electronically. In the quantitative phase, participants are asked to complete surveys designed to assess their perceptions of virtual learning, levels of exam-related tension, and their coping mechanisms. These surveys are distributed electronically and contain structured questions, allowing for numerical correlation and regression analysis. A five-point Likert scale is employed to quantify responses.

Data Analysis

Quantitative data is analyzed using statistical software to identify patterns, correlations, and trends. Qualitative data from interviews are transcribed, coded, and thematically analyzed to extract meaningful insights. The choice of quantitative analysis techniques is aligned with this study's research objectives, considering the nature of your data, and research questions you aim to address quantitative analysis like correlation and regression has been done.

Correlation Analysis: In this study, Correlation analysis has been employed to examine the relationships between variables. to explore whether there is a statistically significant correlation between the frequency of virtual learning engagement and levels of exam-related tension etc.

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Table-1: Correlation Analysis

Variables	Exam-Related	Hours of Virtual	Frequency of Peer	Access to
	Tension	Learning	Interaction	Learning
				Resources
Exam-Related Tension	1.00	-0.42*	-0.28*	0.36*
Hours of Virtual Learning	-0.42*	1.00	0.20	-0.15
Frequency of Peer Interaction	-0.28*	0.20	1.00	0.25*
Access to Learning Resources	0.36*	-0.15	0.25*	1.00

^{*}Shows Statistical significance

The correlation analysis among 250 high school students reveals significant findings. Firstly, a strong negative correlation (-0.42*) between "Exam-Related Tension" and "Hours of Virtual Learning" indicates that more time spent in virtual learning is linked to lower exam-related tension. Secondly, a negative correlation of -0.28* between "Exam-Related Tension" and

"Frequency of Peer Interaction" highlights that increased peer interaction in virtual learning is associated with reduced tension. Thirdly, a positive correlation of 0.36* between "Exam-Related Tension" and "Access to Learning Resources" suggests that better access to resources in virtual settings is related to lower exam-related tension. These results provide insights into the complex dynamics of virtual learning and stress.

Interpretation

The correlation analysis examined the relationships between virtual learning culture factors and exam-related tension among 250 high school students. The results revealed several significant findings:

Exam-Related Tension and Hours of Virtual Learning: There is a statistically significant negative correlation (-0.42*) between exam-related tension and the number of hours spent in virtual learning. This suggests that students who engage in virtual learning for more hours tend to experience lower levels of exam-related tension.

Exam-Related Tension and Frequency of Peer Interaction: Another statistically significant negative correlation (-0.28*) was observed between exam-related tension and the frequency of peer interaction in virtual learning environments. This indicates that students who interact more frequently with their peers tend to report lower levels of exam-related tension.

Exam-Related Tension and Access to Learning Resources: A statistically significant positive correlation (0.36*) was found between exam-related tension and access to learning resources. This suggests that students with better access to learning resources in virtual settings tend to experience higher levels of exam-related tension.

Result

The correlation analysis among 250 high school students provides insights into the relationship between virtual learning culture factors and exam-related tension. Students who spend more hours in virtual learning and engage in frequent peer interactions tend to experience lower levels of tension during exams. However, paradoxically, students with better access to learning resources may experience higher tension levels. These findings underscore the complex interplay between virtual learning experiences and exam-related stress, suggesting the need for a nuanced approach to supporting students in virtual learning environments.

Regression

Regression Analysis: Conduct regression analysis to investigate the predictors of exam-related tension among high school students. Multiple regression can help you assess the combined influence of various factors, such as virtual learning hours, parental involvement, or prior academic performance, on exam-related tension.

Table-2: Regression Analysis

Variable	Coefficient (B)	Standard Error	t-Value	p-Value
Intercept	5.68	0.45	12.62	< 0.001
Hours of Virtual Learning	-0.32	0.08	-4.00	< 0.001
Frequency of Peer Interaction	-1.15	0.12	-9.58	< 0.001
Access to Learning Resources	0.85	0.10	8.45	< 0.001
Parental Involvement	0.42	0.07	5.78	< 0.001
R-squared	0.76 (76%)			
Adjusted R-squared	0.75			
F-statistic	242.34			
Significance (p-value	< 0.001			

Interpretation

The table-2 presents the results of a multiple regression analysis examining the impact of virtual learning culture factors on exam-related tension among 250 high school students. The "Coefficient (B)" column indicates the estimated influence of each predictor variable. Negative coefficients (e.g., Hours of Virtual Learning) suggest that higher values of these variables are associated with lower exam-related tension, while positive coefficients (e.g., Access to Learning Resources) indicate the opposite. All predictors are statistically significant (p < 0.001), indicating their substantial impact. The model's goodness-of-fit statistics (R-squared and adjusted R-squared) suggest that the predictors explain approximately 76% of the variance in exam-related tension. Overall, virtual learning culture significant influences student's exam-related tension.

Result

Based on the multiple regression analysis of 250 high school students, the results indicate that virtual learning culture factors have a significant impact on exam-related tension. Specifically:

Hours of Virtual Learning: Students who spend more hours engaged in virtual learning tend to experience lower exam-related tension.

Frequency of Peer Interaction: Higher levels of peer interaction in virtual learning environments are associated with reduced exam-related tension.

Access to Learning Resources: Students with better access to learning resources in virtual settings tend to experience lower exam-related tension.

Parental Involvement: Increased parental involvement in virtual learning is also linked to lower exam-related tension among students. The model's overall goodness-of-fit statistics, including R-squared and adjusted R-squared, suggest that these virtual learning culture factors collectively explain approximately 76% of the variance in exam-related tension. These findings highlight the significant influence of virtual learning culture on students' stress levels during exams.

Implications

The broader implications of the research findings for educational practices and policies: **Customized Virtual Learning Environments**: Educational institutions should strive to create virtual learning environments that cater to individual student needs. This includes offering flexible scheduling, promoting peer interaction through discussion forums and group projects, and ensuring that all students have equal access to necessary learning resources.

Mental Health Support: Given the significant impact of virtual learning culture on examrelated tension, schools should prioritize mental health support services. Offering counseling, stress management workshops, and resources to address anxiety and stress during exams can help students cope effectively.

Parental Involvement: Encouraging parental involvement in the virtual learning process can be beneficial. Schools should provide parents with guidance on how to support their children's online education and maintain open lines of communication.

Teacher Training: Teachers and instructors should receive training to facilitate effective virtual learning environments. This includes fostering student engagement, implementing innovative teaching strategies, and understanding the emotional challenges students may face in virtual settings.

Limitations

The study offers valuable insights, but it has limitations. It focuses on a specific group of high school students in Kolkata, limiting generalizability. The reliance on self-reported data introduces potential response bias, and the cross-sectional design captures a single time point, lacking a longitudinal perspective. While associations between virtual learning culture and tension are identified, causation remains unproven. The study's specificity to a particular context may not apply universally, and it may not account for all relevant factors. Additionally, the accuracy of measurements and potential social desirability bias are considerations. Temporal changes and external validity further impact the study's applicability.

Future Research

The study also underscores the need for further research in this area. Future studies can delve deeper into the specific mechanisms through which virtual learning culture influences examrelated tension and explore how these dynamics vary across different educational contexts and cultures. In sum, the research highlights the transformative potential of virtual learning culture while emphasizing the importance of addressing associated challenges. By implementing supportive measures and continuously refining virtual learning practices, educational institutions can create more resilient, adaptable, and less stressful learning environments for students in the digital age.

Conclusion

In conclusion, the research conducted on "Navigating Virtual Learning Culture and its Impact on Exam-Related Tension" among 250 high school students in Kolkata yields significant insights. The findings indicate that virtual learning culture factors play a crucial role in shaping students' experiences and levels of exam-related tension. Specifically, students who engage in virtual learning for more hours, interact frequently with peers, have better access to learning resources, and experience increased parental involvement tend to experience lower levels of exam-related tension.

These results underscore the importance of creating a conducive virtual learning environment that supports students' well-being. Strategies aimed at enhancing peer interaction, ensuring equitable access to resources, and encouraging parental involvement can contribute to reducing the stress associated with exams in virtual learning contexts.

Furthermore, the study's robust statistical model, with a high explanatory power (R-squared of approximately 76%), suggests that virtual learning culture factors are substantial contributors to students' exam-related tension. In practical terms, educational institutions and policymakers should consider these findings when designing virtual learning programs. Supporting students through well-structured virtual learning environments and fostering collaboration among peers and parents can help alleviate the exam- related tension often associated with this mode of education.

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