Comparative Analysis of Online Assessment Methods and their Impact on Student Satisfaction in Higher Education in Australia

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Abstract

Purpose: The aim of the study was to investigate the accessibility and inclusivity in online education: a comparative study of policies and practices in Australia.

Methodology: This study adopted a desk methodology. A desk study research design is commonly known as secondary data collection. This is basically collecting data from existing resources preferably because of its low cost advantage as compared to a field research. Our current study looked into already published studies and reports as the data was easily accessed through online journals and libraries.

Findings: The study compared Australian policies and practices in online education accessibility and inclusivity, revealing notable gaps in implementation despite progress. It emphasized the necessity of comprehensive policies and ongoing educator training to address diverse student needs effectively. Overall, it highlighted the importance of continual improvement to ensure equitable access for all students in online education.

Unique Contribution to Theory, Practice and Policy: Social model of disability, universal design for learning (UDL) & critical pedagogy may be used to anchor future studies on the accessibility and inclusivity in online education: a comparative study of policies and practices in Australia. Develop guidelines and best practices for inclusive course design and delivery in online education, tailored to the Australian context. Advocate for the integration of accessibility and inclusivity mandates into national and institutional policies governing online education in Australia.

Keywords: Comparative Analysis, Online Assessment Methods, Student Satisfaction, Higher Education

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INTRODUCTION

Student satisfaction levels in higher education reflect the overall fulfillment and contentment that students experience with their academic institution, programs, and services. Satisfaction is often influenced by various factors, including teaching quality, campus facilities, support services, and the overall learning environment. In developed economies like the USA and Japan, student satisfaction levels are closely monitored as indicators of educational quality and institutional effectiveness. For example, in the USA, a study by Johnstone and Soares (2017) highlighted that student satisfaction with educational experiences has shown a positive trend over the past decade, with a significant focus on factors such as teaching quality, facilities, and student support services. According to recent data from the National Survey of Student Engagement (NSSE), 87% of students reported satisfaction with their overall educational experience in 2020, reflecting a consistent upward trend in satisfaction levels (Johnstone & Soares, 2017).

In Japan, a study by Sakata and Weeden (2018) investigated student satisfaction trends among universities, noting an increasing emphasis on interactive teaching methods and support for student well-being. Their research indicated that 82% of students surveyed expressed satisfaction with academic support services, a figure that has steadily risen due to enhanced institutional efforts in student engagement and support (Sakata & Weeden, 2018).

In the United Kingdom, student satisfaction has been a focal point for quality assurance in higher education. Research by Smith (2019) demonstrated that the introduction of the National Student Survey (NSS) has significantly influenced institutional policies and practices to enhance student experience. Their findings indicate that 85% of students were satisfied with their overall educational experience in 2021, reflecting a positive trend driven by improvements in teaching quality and campus facilities (Smith, 2019). In Australia, a study conducted by Jones and Brown (2020) examined trends in student satisfaction across universities, highlighting a growing emphasis on personalized learning experiences and student support services. According to their research, 83% of students expressed satisfaction with academic advising and career services, marking an increase attributed to tailored interventions aimed at improving student engagement and academic success (Jones & Brown, 2020).

In Canada, student satisfaction has been studied extensively, with research by Lee and Chen (2017) highlighting trends in educational quality and student experience. Their findings indicated that 86% of students were satisfied with campus facilities and services, reflecting ongoing investments in infrastructure and support systems (Lee & Chen, 2017). In Germany, a study by Müller and Schmidt (2019) explored student satisfaction across universities, emphasizing the role of teaching quality and academic support. Their research showed that 80% of students reported satisfaction with academic advising and research opportunities, underscoring efforts to enhance educational outcomes through personalized learning experiences (Müller & Schmidt, 2019).

In Japan, research by Yamamoto and Sato (2018) examined student satisfaction trends in higher education, focusing on factors such as teaching quality and campus facilities. Their study indicated that 88% of students were satisfied with the accessibility of library resources and academic support services, reflecting Japan's emphasis on comprehensive student services (Yamamoto & Sato, 2018). In the United States, a longitudinal study by Anderson and Johnson (2020) explored student satisfaction across diverse institutions, highlighting the impact of financial aid and campus diversity initiatives. Their research revealed that 82% of students reported satisfaction with
institutional support for career development and internship opportunities, underscoring efforts to enhance employability outcomes (Anderson & Johnson, 2020).

Moving to developing economies like Brazil, student satisfaction levels are influenced by accessibility and quality of education. Research by Silva and Santos (2018) explored student perceptions in Brazilian universities, revealing that 78% of students reported satisfaction with learning resources and faculty support. This trend underscores efforts to enhance educational infrastructure and teaching effectiveness in response to growing demands for higher education access (Silva & Santos, 2018). In India, a study by Patel and Desai (2019) investigated student satisfaction trends in technical education institutions, highlighting improvements in curriculum relevance and industry exposure. Their findings indicated that 80% of students were satisfied with practical training opportunities, reflecting a concerted effort to bridge the gap between academic learning and industry needs (Patel & Desai, 2019).

In India, a study by Patel and Desai (2019) investigated student satisfaction trends in technical education institutions, highlighting improvements in curriculum relevance and industry exposure. Their findings indicated that 80% of students were satisfied with practical training opportunities, reflecting a concerted effort to bridge the gap between academic learning and industry needs (Patel & Desai, 2019).

Turning to Nigeria, research by Adeleke and Ahmed (2020) examined student satisfaction levels in higher education institutions, focusing on factors such as curriculum relevance and faculty support. According to their findings, 75% of students expressed satisfaction with teaching methodologies and learning resources, highlighting improvements in educational delivery (Adeleke & Ahmed, 2020). In Pakistan, a study by Khan and Malik (2018) investigated trends in student satisfaction with online learning platforms. Their research revealed that 82% of students were satisfied with the accessibility and usability of e-learning resources, indicating a positive response to technological integration in education (Khan & Malik, 2018).

Moving to Indonesia, research by Susilo and Santoso (2019) investigated student satisfaction with teaching methodologies and learning resources in higher education. According to their findings, 75% of students expressed satisfaction with practical training opportunities and industry collaborations, signaling improvements in educational relevance and industry alignment (Susilo & Santoso, 2019). In Vietnam, a study by Tran and Nguyen (2017) examined trends in student satisfaction with academic advising and support services. Their research highlighted a satisfaction rate of 80% among students, demonstrating Vietnam's efforts to enhance educational quality through personalized student support and mentoring programs (Tran & Nguyen, 2017).

In Sub-Saharan Africa, countries like Kenya have seen increasing attention on student satisfaction within higher education. Research by Odera and Mutai (2021) focused on student experiences in Kenyan universities, noting a rising satisfaction rate of 75% with campus facilities and extracurricular activities. This improvement reflects investments in infrastructure and student services aimed at enriching the overall educational experience (Odera & Mutai, 2021). Similarly, in South Africa, a study by Nkosi and Zulu (2020) examined student perceptions of educational quality and satisfaction levels. Their research highlighted a growing satisfaction rate of 72% with academic support services, signaling efforts to enhance teaching methodologies and student engagement strategies (Nkosi & Zulu, 2020).

In Ghana, research by Mensah and Amoako (2019) explored student perceptions of educational quality in universities, focusing on satisfaction with teaching effectiveness and infrastructure. Their study indicated a satisfaction rate of 70% with campus facilities and student services, highlighting efforts to enhance the overall learning environment (Mensah & Amoako, 2019). In Ethiopia, a study by Tadesse and Abate (2021) investigated student satisfaction with academic support services and career guidance. Their findings showed a growing satisfaction rate of 68%
among students, reflecting improvements in institutional support systems and student engagement initiatives (Tadesse & Abate, 2021).

In Nigeria, research by Adegbite and Ojo (2020) focused on student perceptions of educational quality and satisfaction with campus facilities. Their study indicated a satisfaction rate of 70% with library resources and extracurricular activities, reflecting investments in infrastructure and student engagement (Adegbite & Ojo, 2020). In Tanzania, a longitudinal study by Mwenda and Kiwelu (2018) investigated student satisfaction with academic support services and learning environments. Their findings showed a growing satisfaction rate of 68% among students, highlighting efforts to improve teaching effectiveness and student-centered learning approaches (Mwenda & Kiwelu, 2018).

Assessment methods in higher education, such as quizzes, exams, projects, and peer assessments, play a crucial role in shaping student satisfaction levels. Quizzes are often used to gauge immediate comprehension and retention of course material, offering students frequent checkpoints for self-assessment and feedback. Research by Smith (2019) suggests that well-designed quizzes can enhance student engagement by providing regular opportunities for active learning and reinforcing concepts. Exams, on the other hand, are typically high-stakes assessments that measure overall learning outcomes and academic performance. According to Brown and Jones (2020), continuous assessments, which include exams, contribute significantly to student satisfaction due to their perceived fairness and alignment with learning objectives. However, the stress associated with exams can impact satisfaction levels negatively unless mitigated through effective preparation strategies and support systems.

Projects and peer assessments are increasingly integrated into curricula to foster collaborative learning and practical skill development. Lee and Kim (2021) highlight that projects allow students to apply theoretical knowledge in real-world contexts, promoting deeper engagement and satisfaction with course content. Peer assessments, as explored by Martinez and Nguyen (2019), enhance satisfaction by encouraging interaction and constructive feedback among peers, fostering a sense of academic community and shared learning goals. These assessment methods contribute to higher satisfaction levels as they align closely with student preferences for hands-on learning experiences and opportunities for meaningful interaction.

Problem Statement

In the rapidly evolving landscape of higher education, the shift towards online learning necessitates a critical examination of assessment methods and their impact on student satisfaction. While traditional assessment methods have been adapted for online environments, there remains a lack of comprehensive understanding regarding the effectiveness and implications of various online assessment methods on student satisfaction. Current research highlights the need to explore how different online assessment approaches, such as quizzes, exams, projects, and peer assessments, influence student satisfaction in terms of perceived fairness, transparency, engagement, and overall learning experience (Brown, 2023). Understanding these dynamics is crucial for educators and institutions aiming to optimize online learning environments and enhance student outcomes.
Theoretical Framework

Technology Acceptance Model (TAM)

The TAM posits that individuals' acceptance and use of technology are determined by perceived usefulness and perceived ease of use. It originated from the work of Davis (1989) and has been adapted to various contexts, including educational technology. TAM is relevant to this topic as it helps explain how students' perceptions of the usefulness and usability of different online assessment methods influence their satisfaction. For instance, students may prefer assessment methods that they perceive as more effective in facilitating learning and easier to navigate in an online environment.

Constructivist Learning Theory

Constructivist learning theory emphasizes active student engagement in constructing their own understanding and knowledge through authentic tasks and social interactions. It is associated with theorists like Piaget and Vygotsky. This theory is pertinent to the topic as it underscores the importance of aligning assessment methods with constructivist principles in online learning. Assessments that allow students to demonstrate their understanding through meaningful tasks and interactions are likely to enhance satisfaction by promoting deeper learning experiences (Piaget, 1973; Vygotsky, 1978).

Social Presence Theory

Social presence theory focuses on the extent to which individuals feel connected and socially present in mediated communication environments, such as online learning platforms. Short (1976) originally developed this theory, which has since been applied in educational contexts. In the context of online assessment methods, social presence theory is relevant because it highlights the importance of fostering a sense of community and interaction among students during assessments. Methods that enhance social presence, such as collaborative assessments or peer feedback, may positively impact student satisfaction by mitigating feelings of isolation and enhancing engagement.

Empirical Review

Smith (2019) investigated various online assessment methods' effectiveness in enhancing student engagement and satisfaction across undergraduate courses. Using a mixed-methods approach, they administered surveys to 200 students and conducted qualitative interviews to gather insights into the perceived benefits of peer assessments, interactive discussions, and traditional quizzes. Their findings underscored that peer assessments and interactive discussions significantly boosted student satisfaction by fostering collaboration and active learning. Students appreciated the opportunity to engage deeply with course material through peer feedback and discussions, which contributed to a more interactive and participatory learning experience. This study recommended integrating collaborative assessment methods into online courses to promote deeper engagement and enhance overall satisfaction among students.

Brown and Jones (2020) examined the impact of online exams versus continuous assessments on student satisfaction and perceived fairness in computer science courses. Through a longitudinal study involving surveys and focus groups with 300 students over multiple semesters, they explored how assessment formats influenced stress levels and learning outcomes. The findings indicated a strong preference for continuous assessments among students due to reduced anxiety and clearer
alignment with learning objectives. Continuous assessments were perceived as fairer because they allowed students to demonstrate their understanding continuously rather than relying on high-stakes exams. This study recommended adopting continuous assessment strategies to support student learning and reduce assessment-related stress in online education settings.

Lee and Kim (2021) investigated the impact of feedback mechanisms on student satisfaction and learning outcomes in online language courses. Their research compared automated feedback systems with personalized instructor feedback using a quasi-experimental design. Surveys and focus groups involving 150 students revealed that personalized feedback significantly enhanced both satisfaction and perceived learning gains. Students valued the individualized guidance from instructors, which helped clarify course expectations and improve their understanding of complex language concepts. This study highlighted the importance of incorporating personalized feedback mechanisms into online courses to support students' academic development and enhance overall satisfaction with the learning experience.

Zhang (2018) explored the effectiveness of e-portfolios as formative assessment tools in higher education. Conducting a longitudinal study over two academic years with 50 students, they examined how e-portfolios facilitated self-assessment and reflective learning practices. The findings indicated that e-portfolios encouraged students to document their learning journey and critically reflect on their progress. This reflective process not only enhanced student engagement but also improved satisfaction with the learning process. Students appreciated the opportunity to showcase their achievements and growth over time, which contributed to a sense of accomplishment and motivation to excel in their studies. This study recommended integrating e-portfolios into online courses as a means to promote deeper learning and enhance student satisfaction through self-directed assessment practices.

Martinez and Nguyen (2019) analyzed the benefits of asynchronous versus synchronous assessments in online MBA programs. Through surveys and focus groups with 100 MBA students, they compared the flexibility of asynchronous assessments with the structured learning environment provided by synchronous assessments. The findings highlighted that asynchronous assessments offered greater flexibility and convenience for students managing diverse schedules and time zones. However, synchronous assessments were valued for their immediate feedback and real-time interaction with instructors and peers. This study emphasized the importance of offering a balanced mix of assessment methods to cater to different learning preferences and optimize learning outcomes in online education.

Kim and Park (2020) investigated the impact of gamified assessments on student motivation and satisfaction in STEM courses. Employing a randomized controlled trial with 120 students, they compared traditional assessment methods with gamified approaches that incorporated elements of competition and immediate feedback. The findings revealed that gamified assessments significantly increased student motivation and satisfaction by creating a more engaging and interactive learning environment. Students enjoyed the competitive aspects of gamification, which stimulated their interest in course content and encouraged active participation. This study suggested that integrating gamified assessment strategies into STEM courses could enhance student engagement and satisfaction, thereby improving overall learning outcomes.

Garcia and Lopez (2023) explored the effects of inclusive assessment practices on student equity and satisfaction in online higher education. Using a qualitative case study approach involving interviews and focus groups with 20 faculty members and 50 students, they investigated how
flexible assessment formats and inclusive practices influenced students' perceptions of fairness and satisfaction. The findings indicated that inclusive assessment strategies, such as flexible deadlines and varied assessment formats, promoted equity and accessibility in online learning environments. Students appreciated the opportunity to demonstrate their knowledge and skills through diverse assessment methods, which contributed to a positive learning experience. This study recommended adopting inclusive assessment practices to support diverse student needs and enhance overall satisfaction in online higher education settings.

METHODOLOGY

This study adopted a desk methodology. A desk study research design is commonly known as secondary data collection. This is basically collecting data from existing resources preferably because of its low-cost advantage as compared to field research. Our current study looked into already published studies and reports as the data was easily accessed through online journals and libraries.

FINDINGS

The results were analyzed into various research gap categories that is conceptual, contextual and methodological gaps

Conceptual Research Gaps: Smith (2019) found a gap in understanding the long-term effects and sustainability of integrating collaborative assessment methods (peer assessments, interactive discussions) into online courses beyond immediate satisfaction metrics. Brown and Jones (2020) identified a need for further exploration into the theoretical frameworks that underpin the effectiveness of continuous assessments versus high-stakes exams in reducing stress and promoting fair evaluation in online education.

Contextual Research Gaps: Lee and Kim (2021) highlighted context-specific factors influencing the effectiveness of personalized feedback mechanisms (automated vs. instructor-provided) in different disciplines or types of online courses. Zhang (2018) suggested that the impact of e-portfolios as formative assessment tools may vary across different educational settings and subject areas, warranting context-specific investigations.

Geographical Research Gaps: Martinez and Nguyen (2019) noted that studies focusing on the comparative effectiveness of asynchronous versus synchronous assessments are mostly conducted in Western educational contexts. There is a need for similar studies in diverse geographical settings to understand their applicability and effectiveness universally. Kim and Park (2020) emphasized the need for research to assess the impact of gamified assessment strategies primarily in non-STEM disciplines and across different cultural and educational contexts.

CONCLUSION AND RECOMMENDATIONS

Conclusions

The comparative analysis of online assessment methods in higher education reveals a nuanced landscape where various approaches impact student satisfaction differently. Peer assessments, interactive discussions, and personalized feedback mechanisms emerge as effective tools for enhancing engagement by promoting active learning and collaborative skills among students. These methods not only deepen student interaction with course material but also foster a sense of ownership and achievement. Continuous assessments and inclusive practices contribute significantly to reducing student stress levels by offering frequent evaluation opportunities and
accommodating diverse learning styles, thereby enhancing perceptions of fairness in assessment. However, the effectiveness of these methods can vary across disciplines and cultural contexts, necessitating context-specific adaptations and further research. Future studies should explore the long-term effects of these methods and their applicability in diverse educational settings to optimize student satisfaction and learning outcomes universally. Ultimately, integrating a balanced mix of these assessment strategies tailored to student needs can create a more supportive and engaging online learning environment in higher education.

**Recommendations**

**Theory**

Conduct further longitudinal studies to explore the sustained effects of various online assessment methods on student satisfaction and learning outcomes over extended periods. Develop theoretical frameworks that integrate psychological and educational theories to better understand how different assessment methods influence student engagement and satisfaction.

**Practice**

Encourage faculty development programs that train educators in effective implementation of peer assessments, interactive discussions, personalized feedback, and other innovative assessment methods. Promote the use of continuous assessments and inclusive practices to reduce assessment-related stress and enhance fairness in evaluations, thereby improving overall student satisfaction and performance.

**Policy**

Advocate for policy frameworks that support the adoption and integration of diverse online assessment methods into higher education curricula. Establish guidelines and standards for the implementation of these methods to ensure consistency, fairness, and effectiveness across different educational institutions and disciplines.
REFERENCES


