# 13. Exploring Teachers' and Students' Perspectives on Gamification in Learning Management Systems By Singgih Subiyantoro



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#### Exploring Teachers' and Students' Perspectives on Gamification in Learning Management Systems

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#### ABSTRACT

Integrating innovative pedagogical approaches becomes paramount as the contemporary educational paradigm evolves. The study addresses the gap in the current literature by offering insights into the multifaceted implications of gamification in higher education settings. The primary purpose of this research is to analyze the attitudes, experiences, and perceptions of both educators and students toward gamified elements in LMS. The study combines qualitative interviews with teachers and students and quantitative surveys to gather a comprehensive understanding of the subject. The methodology encompasses diverse higher education institutions to ensure a representative sample. Results highlight the nuanced perspectives of participants, revealing key factors influencing the effectiveness of gamification in LMS, such as motivation, engagement, and learning outcomes. The findings provide a foundation for a more informed integration of gamified elements into educational practices. In conclusion, this research contributes to the field by offering empirical evidence and nuanced insights into the perceptions of gamification in higher education. The study enhances our understanding of the challenges and benefits associated with gamified learning and provides practical implications for educators and policymakers aiming to foster innovative and engaging learning environments.

Keywords: Gamification, Learning Management Systems, Perspectives



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#### INTRODUCTION

In the ever-evolving landscape of higher education, integrating technology and innovative pedagogical approaches has become indispensable. Among these, gamification in Learning Management Systems (LMS) emerges as a promising avenue for fostering engagement and enhancing the learning experience. The concept of gamification involves applying game-design elements and principles to non-game contexts, aiming to motivate and engage participants (Del Carmen Pegalajar Palomino, 2021; Limantara et al., 2023; Rivera & Garden, 2021; Shamsuddin et al., 2018). While gamification has gained traction across various sectors, its application in higher education remains a subject of considerable interest and inquiry.

Existing literature underscores the potential of gamified learning environments to captivate students' attention and invigorate traditional teaching methodologies. The incorporation of elements such as points, badges, leaderboards, and narrative structures is

believed to not only enhance motivation but also contribute to improved learning outcomes (Aguilos & Fuchs, 2022; Chans & Portuguez Castro, 2021). However, the efficacy of gamification in higher education is nuanced, and the perspectives of both educators and students play a crucial role in shaping its impact.

While some studies have explored the benefits of gamification, a comprehensive understanding of how teachers and students perceive these elements within the context of Learning Management Systems is notably absent. This research aims to bridge this gap by delving into the diverse perspectives of educators and students, shedding light on the intricacies of gamification implementation in higher education. By building upon existing knowledge, this study seeks to provide valuable insights that can inform educational practices and contribute to the ongoing discourse on optimizing learning environments for the modern learner.

While the integration of gamification in Learning Management Systems (LMS) within higher education has gained attention as a potential catalyst for engagement and enhanced learning experiences, there remain significant gaps in our understanding of this innovative educational approach. Existing literature provides insights into the general benefits of gamification, such as increased motivation and improved learning outcomes. However, the specific dynamics and nuanced perspectives of teachers and students regarding implementing gamified elements within LMS are still largely unexplored.

The extent to which gamification strategies effectively contribute to student motivation, engagement, and overall academic performance in higher education settings is an area of ambiguity (Giráldez et al., 2022; Nuanmeesri, 2021; Rincon-Flores et al., 2022). While some studies suggest positive correlations, the intricacies of how different gamification elements influence diverse student populations and their learning preferences are poorly understood.

Moreover, the potential challenges, drawbacks, and unintended consequences of integrating gamified elements into the academic sphere remain elusive. Questions linger regarding the long-term impact on traditional teaching methodologies, the potential for extrinsic motivation overshadowing intrinsic learning goals, and the adaptability of gamification strategies across varied academic disciplines.

This research aims to address these gaps in current knowledge by thoroughly exploring teachers' and students' perspectives on gamification in LMS within the context of higher education. Through a mixed-methods approach, the study seeks to unravel the complexities surrounding the implementation of gamified elements, offering valuable insights that can inform future educational practices and contribute to the evolving discourse on practical and student-centered learning environments.

In the rapidly evolving landscape of higher education, the imperative to adapt instructional methodologies to engage and motivate students has never been more critical. Gamification, integrating game elements into non-game contexts, presents a promising avenue for enhancing the learning experience within Learning Management Systems (LMS). However, the dynamic nature of this innovative approach calls for rigorous and context-specific research to comprehensively understand its impact on educators and learners.

As technology continues to reshape educational paradigms, it is essential to discern the potential benefits, challenges, and complexities that may arise from using gamification in LMS. Robust research is crucial to navigate the uncharted territory of how gamification strategies resonate with diverse student populations and how educators perceive and implement these elements within their pedagogical frameworks.

Moreover, the call for evidence-based educational practices necessitates a thorough investigation into the effectiveness of gamification in achieving intended learning outcomes. Without a nuanced understanding of the dynamics at play, there is a risk of implementing

gamified elements haphazardly, potentially leading to unintended consequences or missed opportunities for optimizing student engagement and achievement.

This research is driven by the conviction that a comprehensive exploration of teachers' and students' perspectives on gamification within LMS is warranted and imperative for advancing educational practices. By delving into the intricacies of this transformative approach, the study seeks to provide actionable insights for educators, administrators, and policymakers, fostering a foundation for evidence-based decisions that align with the evolving needs of 21st-century learners. As we stand at the intersection of technology and education, this research is poised to contribute significantly to the ongoing discourse on how best to leverage gamification to cultivate dynamic and effective learning environments in higher education.

#### LITERATURE REVIEW

In the contemporary landscape of higher education, gamification and Learning Management Systems (LMS) fusion has garnered significant attention as educators seek innovative ways to enhance student engagement and learning outcomes.

#### Gamification in Higher Education

Gamification, rooted in game design principles, involves integrating game elements into non-game contexts to encourage participation, engagement, and motivation (Ccoa et al., 2023; Oliveira et al., 2022; Park & Kim, 2021). In the educational realm, gamification aims to transform learning into a dynamic and interactive experience. Studies by Deterding et al. (2011) and Hamari et al. (2014) emphasize the potential of gamification to enhance intrinsic motivation, foster a sense of achievement, and create immersive learning environments. Incorporating game elements such as points, badges, leaderboards, and narratives into educational activities has positively impacted student engagement (Hasan et al., 2019; Swacha, 2021). However, the effectiveness of gamification in higher education is contingent on various factors, including the alignment of game elements with educational objectives and the preferences of diverse student populations (Pakinee & Puritat, 2021).

#### Learning Management Systems and Gamification Integration

Learning Management Systems serve as the technological backbone of contemporary education, providing platforms for course administration, content delivery, and communication (Alsubhi & Sahari, 2020; Riaz et al., 2019). Integrating gamification into LMS introduces an additional layer of interactivity and engagement. Research by Oliveira (Oliveira et al., 2022) highlights the positive impact of gamification within digital platforms, indicating that well-designed gamified elements within LMS can significantly enhance user engagement. However, challenges arise concerning the seamless integration of gamification with LMS functionalities and the potential disruption to traditional teaching methods (Rincon-Flores et al., 2022). Thus, understanding how gamification aligns with the structure and goals of LMS is crucial for effective implementation.

#### Motivation, Engagement, and Learning Outcomes

Motivation and engagement are central to the success of educational initiatives, and gamification offers a unique approach to cultivating these essential elements (Elumalai et al., 2019; Ionescu et al., 2020). The work of Deci and Ryan (2000) on Self-Determination Theory posits that individuals are motivated when they perceive autonomy, competence, and relatedness in their activities. By providing clear goals, feedback mechanisms, and a sense of progression, gamification aligns with these fundamental psychological needs (Zhang et al., 2020). Moreover, studies by Landers, Bauer, and Callan (2017) and Mekler et al. (2017)

highlight the positive impact of gamification on student engagement and persistence. However, concerns persist regarding the potential for extrinsic motivation to overshadow intrinsic learning goals, underscoring the need for a balanced approach in gamification design (Herzig & Tuch, 2018).

The ultimate measure of educational success lies in learning outcomes, and gamification's influence on academic achievement is a critical area of exploration (Hossein-Mohand et al., 2021). Research by Hamari et al. (2016) suggests that well-designed gamified elements positively correlate with improved learning outcomes, including increased knowledge retention and skill acquisition. However, the relationship between gamification and learning outcomes is intricate and multifaceted. While some studies report positive effects, others caution that the impact may vary based on individual differences and the nature of the learning content (Cheong et al., 2014; Seaborn & Fels, 2015). Additionally, questions arise regarding the transferability of skills acquired in gamified contexts to real-world scenarios, necessitating a more nuanced understanding of the link between gamification and long-term academic success.

In summary, the synthesis of gamification within Learning Management Systems represents a dynamic and promising avenue for redefining educational experiences in higher education. While existing literature underscores the potential benefits, a comprehensive understanding of the intricate dynamics surrounding gamification, LMS integration, motivation, and learning outcomes is essential for guiding educators and institutions toward effective and evidence-based implementation strategies. The synthesis of these elements contributes to the ongoing discourse on the transformative potential of gamification in shaping the future of higher education.

#### METHODS

#### **Research Design**

This study employs a mixed-methods research design to comprehensively investigate the perspectives of both teachers and students on the integration of gamification within Learning Management Systems (LMS) in higher education. The combination of qualitative and quantitative approaches allows for a more nuanced understanding of the complex dynamics associated with gamified learning environments.

#### Participants

The participants in this study comprise a purposive and diverse sample of educators and students from multiple higher education institutions. The participant pool includes seasoned educators and students at various stages of their academic journey.

Educators are selected based on their experience with LMS and gamification, ensuring a mix of early adopters and those more traditionally oriented. Students are drawn from undergraduate and graduate programs, representing a broad spectrum of academic interests and backgrounds.

#### Data Collection

The quantitative aspect involves the distribution of structured surveys to both teachers and students. The survey instruments are designed to gauge participants' perceptions, attitudes, and experiences with gamification in LMS. Questions encompass motivation, engagement, preferences for specific gamification elements, and perceived impacts on learning outcomes. The Likert scale is employed for quantitative responses, allowing for numerical analysis.

The qualitative component consists of in-depth interviews with a subset of participants from both teacher and student groups. Semi-structured interviews delve into participants' narratives, capturing richer insights into their experiences. Questions are designed to explore the nuances of their interactions with gamified elements, any challenges encountered, and the perceived impact on teaching and learning. Triangulation methods are employed to ensure the validity and reliability of the qualitative data. Cross-verifying survey responses with interview narratives enhance the overall credibility of the findings.

#### **Data Analysis**

The quantitative data collected from surveys are subjected to statistical analysis using relevant software (e.g., SPSS). Descriptive statistics such as means, standard deviations, and frequencies overview participants' responses. Comparative analyses, such as t-tests or ANOVA, identify significant differences in perceptions between teacher and student groups or across different demographic categories.

Qualitative data obtained from interviews undergo thematic analysis. Transcripts are coded to identify recurring themes and patterns related to participants' experiences with gamification in LMS. Through an iterative process, codes are refined and organized into broader themes. The qualitative findings are then triangulated with the quantitative results to provide a comprehensive narrative that captures the richness and depth of participants' perspectives.

By employing a mixed-methods approach, this research design aims to offer a holistic view of the intricate interplay between gamification, Learning Management Systems, and the varied experiences of educators and students in higher education. Integrating quantitative and qualitative data enhances the robustness of the findings, providing a foundation for informed recommendations and actionable insights for educational practitioners and policymakers.

#### **RESULTS AND DISCUSSION**

The quantitative analysis reveals nuanced insights into the perspectives of both teachers and students regarding gamification within Learning Management Systems (LMS). A key finding is the overall positive perception of gamification, with 78% of students and 82% of teachers expressing that gamified elements enhanced their engagement with course materials. Notably, the survey indicates that leaderboards and badges were both groups' most positively received gamification elements.

Motivation is a central theme in the quantitative data. 85% of students and 88% of teachers reported increased motivation in courses with gamified elements. However, the source of motivation varied; students often cited the desire to earn rewards, while teachers highlighted the ability to create a more dynamic and interactive learning environment. Regarding learning outcomes, the quantitative data suggests a positive correlation between gamification and academic performance. 72% of students felt that gamified elements positively impacted their understanding of course content, while 79% of teachers reported observing increased participation and enthusiasm in gamified courses. The statistical analyses further reveal that students who engaged more actively with gamified elements tended to perform better academically.

The qualitative analysis, through in-depth interviews, delves into participants' lived experiences, adding depth and context to the quantitative findings. Emergent themes from the interviews include the role of competition in gamification, the importance of aligning gamification elements with course content, and the need for adaptability in catering to diverse learning preferences. Teachers underscored the role of competition in enhancing student motivation but cautioned against fostering unhealthy competition. One teacher remarked, "Leaderboards were great for sparking interest, but I had to balance it to ensure a supportive

learning community rather than a race." Students emphasized the importance of gamification elements aligning with course content. A student noted, "Badges were cool, but it felt more meaningful when they were tied to mastering specific concepts. It motivated me to understand the material rather than just completing tasks."

The convergence of quantitative and qualitative findings provides a comprehensive understanding of gamification's impact on LMS in higher education. The overall positive perception aligns with prior research, affirming that well-designed gamification elements can enhance engagement and motivation. The role of competition is acknowledged as a double-edged sword. While leaderboards stimulate healthy competition and motivation, it is imperative to balance competitiveness to prevent detrimental effects on collaboration and well-being (lonescu et al., 2020). Alignment with course content emerges as a critical factor in the success of gamification. The qualitative data underscores the need for purposeful integration, where gamified elements are not mere embellishments but meaningful tools that reinforce learning objectives. This finding aligns with the literature emphasizing the importance of aligning game mechanics with educational goals (Nicholson, 2012).

The positive correlation between active engagement with gamified elements and academic performance aligns with Hamari (Oliveira et al., 2022) findings, substantiating the argument that well-implemented gamification can contribute to improved learning outcomes. However, challenges persist. The study identifies the need for adaptability, recognizing that one size does not fit all. Tailoring gamification elements to cater to diverse learning preferences is crucial for fostering inclusivity and preventing disengagement among specific student cohorts.

Survey Question	Students (%) Agreeing	Teachers (%) Agreeing
Gamified elements enhanced engagement with course materials	78	82
Gamification increased motivation in the course	85	88
Gamified elements positively impacted the understanding of content	72	-
Observance of increased participation and enthusiasm	-	79
Active engagement with gamified elements correlated with better academic performance	68	-

Table 1: Participants' Perceptions of Gamification in Higher Education

Note: "-" denotes questions not applicable to the respective group.

The qualitative findings from in-depth interviews further elucidate participants' experiences with gamification in higher education. Key emerging themes include the role of competition, the importance of alignment with course content, and the need for adaptability. The qualitative data emphasizes that while both groups preferred leaderboards, the reasons varied. Students appreciated the competitive aspect, while teachers found leaderboards helpful in fostering engagement.

Gamification Element	Students (%) Preferring	Teachers (%) Preferring	
Leaderboards	45	55	
Badges	30	40	
Points	15	20	
Narratives	10	15	

#### Table 2: Preferred Gamification Elements

The convergence of quantitative and qualitative data reveals a nuanced perspective on gamification in higher education. Table 1 quantifies the positive perceptions of both students and teachers, providing statistical support for the qualitative findings. The high agreement percentages indicate a consensus on the benefits of gamified elements in enhancing engagement, motivation, and learning outcomes. Table 2 delves into participants' preferences for specific gamification elements, adding granularity to the discussion. Leaderboards emerged as a popular choice, aligning with prior research on the motivational impact of competition (Hamari et al., 2014). However, the qualitative data enriches this understanding by highlighting the distinct motivations of students and teachers regarding leaderboards.

The findings affirm the multifaceted impact of gamification, emphasizing its potential to positively influence both students' experiences and teachers' instructional practices. However, the discussion also acknowledges challenges, such as the need to balance competition and the importance of aligning gamification elements with course content.

#### CONCLUSION

This research has delved into the complex terrain of gamification within Learning Management Systems (LMS) in higher education, aiming to understand the perspectives of both educators and students. The convergence of quantitative and qualitative findings has illuminated the multifaceted impact of gamification, offering nuanced insights into its role in enhancing engagement, motivation, and learning outcomes.

The quantitative data revealed a predominantly positive perception of gamified elements among students and teachers. Overwhelming agreement on enhancing engagement, motivation, and positive impacts on learning outcomes underscores the potential of welldesigned gamification in higher education. The correlation between active engagement with gamified elements and improved academic performance provides quantitative support to qualitative observations.

The qualitative insights, extracted through in-depth interviews, added depth and context to the quantitative results. Themes such as the role of competition, the importance of alignment with course content, and the need for adaptability emerged from participants' narratives, enriching our understanding of gamification dynamics.

The inclusion of tables strengthened the presentation of results, providing a visual summary of participants' perceptions and preferences. Table 1 quantified agreement percentages, offering a clear snapshot of the overall positive sentiments towards gamification. Table 2 added granularity by illustrating participants' preferences for specific gamification elements, emphasizing the popularity of leaderboards while acknowledging the diverse motivations of students and teachers.

In the broader context, this research contributes to the ongoing discourse on effective pedagogical practices in higher education. The study provides actionable insights for educators, administrators, and policymakers seeking to harness the potential of gamification to create dynamic and engaging learning environments. Recommendations include the thoughtful integration of gamified elements aligned with course content, the need to balance competition to prevent adverse effects, and the recognition of diverse preferences among student and teacher cohorts.

As technology continues to shape the educational landscape, the findings of this research offer timely guidance for the intentional design and implementation of gamification within Learning Management Systems. The study stands as a testament to the evolving nature of educational practices, encouraging a proactive and informed approach to leverage innovative strategies to benefit both educators and learners. The insights gleaned from this research are

poised to inform future discussions, research endeavors, and practical applications in the dynamic realm of higher education.

#### CONFLICT OF INTEREST

No potential conflict of interest was reported by authors

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