

Research Developments in Quality Management at Universities in Indonesia: A Systematic Literature Review

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ABSTRACT

This systematic literature review evaluates the progression of Quality Management (QM) practices in Indonesian universities over the last two decades, leveraging high-quality studies from databases like Google Scholar, Scopus, and Web of Science. Utilizing a stringent selection process based on relevance, rigor, and contribution, the review explores QM evolution, focusing on implementation, challenges, and impacts. The findings reveal a trend towards adopting QM practices, driven by international standards and local requirements, and place these developments within broader QM theoretical frameworks, such as the Total Quality Management (TQM) model. This analysis provides insight into the systemic and theoretical aspects of QM and examines the unique context of Indonesian higher education, highlighting its influence on QM outcomes. Offering both local insights and international implications, especially for similar developing countries, this review emphasizes the critical role of contextual factors in QM effectiveness. By integrating rigorous analysis with theoretical perspectives, the study contributes significantly to the discourse on quality management in higher education, suggesting directions for future research and policy-making.

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1. INTRODUCTION

Quality management (QM) in higher education has become a focal point of academic and administrative discourse globally, as institutions strive to enhance educational outcomes and meet the increasing demands of stakeholders. In Indonesia, the rapid expansion of the higher education sector over the past few decades has necessitated the development and implementation of effective QM systems to ensure the delivery of high-quality education and to remain competitive nationally and internationally. Quality management in higher education involves implementing Total Quality Management (TQM) approaches to improve student satisfaction and learning outcomes (Maria et al., 2017). Various studies have highlighted the challenges and benefits of implementing quality improvement pursuits in higher education institutions (Yudi et al., 2023). This article aims to systematically review the literature on the

developments in QM at universities in Indonesia, exploring the evolution of QM practices, the challenges encountered, and their impacts on the higher education landscape.

The concept of Quality Management (QM) in higher education embodies a vast spectrum of initiatives and methodologies dedicated to upholding and enhancing the educational standards offered (Tari, 2016). This extensive scope comprises establishing and refining robust quality assurance frameworks, meticulous accreditation procedures, ongoing enhancement practices, and formulating strategic stakeholder engagement plans. Particularly in Indonesian universities' milieu, the QM paradigm has transitioned from a mere compliance-driven methodology to an all-encompassing, strategic, and cohesive approach (Jasti et al., 2022). This evolution signifies alignment with global benchmarks and best practices, reflecting a commitment to excellence in educational outcomes. The transformation underscores the sector's dedication to meet and exceed the dynamic educational standards on a global platform, ensuring that the quality of education is maintained and continuously elevated to meet international expectations.

The profound importance of this research is anchored in its invaluable contribution towards deciphering the intricate and dynamic nature of implementing Quality Management (QM) within the educational ecosystems of developing nations, where resources are frequently constrained, and the challenges presented are markedly unique (Girmanova, 2022). Through a focused examination of the Indonesian university landscape, this study sheds light on the nuanced strategies meticulously adopted to navigate and surmount these hurdles. Moreover, it unveils the consequential outcomes of such strategic implementations, notably in enhancing educational quality and boosting institutional performance.

This analysis not only deepens the understanding of QM's pivotal role in elevating educational standards despite resource limitations but also underscores the adaptability and resilience required to address the distinct challenges faced by developing countries. The insights garnered from the specific context of Indonesian universities illuminate the path for similar educational institutions grappling with analogous issues, offering a beacon of hope and a blueprint for achieving educational excellence and institutional robustness (Mensah, 2020). This research, therefore, stands as a testament to the transformative power of strategic quality management in reshaping the educational landscapes of developing nations, ensuring that despite inherent challenges, the quest for quality and excellence remains undeterred.

Previous scholarly inquiries, notably the work of Manatos, M.J., Rosa, M.J., & Sarrico, C.S. (2018), have meticulously explored the formulation and amalgamation of Quality Management (QM) systems within the academic sphere, particularly within universities. Their study underscores the imperative for holistic approaches that span multiple organizational tiers and embrace the core tenets of QM. Drawing upon detailed case studies, their research unveils a progressive trend towards the seamless integration of QM practices into the wider management and governance structures of higher education institutions. This shift places a significant emphasis on enhancing the quality of teaching and learning experiences while concurrently striving for harmonization across various other institutional processes.

Building upon these foundational insights, Dimiyati's research in 2023 introduced an innovative research strength index aimed at evaluating the performance of research-oriented universities. His findings revealed a remarkable landscape of academic research in Indonesia, with 904 universities actively engaged in research endeavors, culminating in a staggering output of 14,188 research projects. This substantial volume of research activity underscores the vibrant and dynamic nature of the academic research sector in Indonesia, highlighting the significant contributions of these institutions to the global knowledge economy. Dimiyati's work not only amplifies our understanding of the research capabilities of Indonesian universities but also emphasizes the critical role that effective quality management plays in fostering an environment conducive to high-level research and academic excellence.

To enhance the quality of higher education in Indonesia, it is important to address issues such as enrollment, equality of education, capacity, student acceptance, financing, cross-border education, and unemployment. The debate in Indonesia revolves around balancing the quality and quantity of higher education (Muhammad et al., 2024). The main challenge lies in financing, where public universities

receive limited government funding, leading to lower-quality education and a widening gap with foreign institutions. Ensuring equity in access to higher education is crucial to benefit all segments of society and improve the overall economy (Yudi et al., 2024).

This article's ensuing segments explore the methodological underpinnings of our systematic literature review, meticulously unravelling the intricate processes involved in collating and analyzing relevant scholarly works. Subsequently, we will meticulously present our findings, organizing them coherently and structured to facilitate ease of understanding and applicability. Further, we will delve into a critical discussion on the ramifications of these findings, not only shedding light on their significance for policy formulation and educational practice but also highlighting their potential to inform and guide future scholarly inquiries within the realm of quality management in Indonesian higher education.

This article is designed to serve as a cornerstone for a broad spectrum of stakeholders, including academics at the forefront of educational research, policymakers tasked with formulating and implementing educational strategies, and practitioners who are the custodians of day-to-day educational quality. By providing a holistic and nuanced perspective on quality management practices within the Indonesian higher education sector, this study endeavours to contribute significantly to the ongoing efforts to refine and elevate the standards of higher education in Indonesia. Moreover, it seeks to offer insights and recommendations that are applicable not only within the Indonesian context but also in other settings facing similar challenges and opportunities in the pursuit of educational excellence. Through this comprehensive analysis, the article aspires to pave the way for meaningful advancements in the field, fostering an environment of continuous improvement and innovation in quality management practices across the higher education landscape.

2. METHODS

This study employs a systematic literature review methodology to analyze and synthesize advancements in quality management within Indonesian universities (Kurniati et al., 2022; Synder, 2019). The methodological rigour ensures a comprehensive capture and critical appraisal of relevant literature, providing an extensive overview of the current research landscape in this area. The research employed library research to explore literature from journals and databases: Web of Science, Scopus, and Google Scholar. This approach was designed to retrieve a variety of scholarly works, including peer-reviewed articles, conference proceedings, and doctoral dissertations in both English and Bahasa Indonesia. It used a meticulously chosen set of search terms, such as "quality management," "higher education," "universities," and "Indonesia," along with numerous synonyms and related phrases, to enhance the scope and precision of our search.

The publications selected for review span from the year 2000 to 2023. This period was chosen to reflect recent shifts in quality management practices in academia, capturing insights into evolving educational policies, global trends, and technological advances that have impacted higher education quality management processes. In this stage, the researcher found 846 articles. Then, 327 articles were eliminated since the publication year was before 2000 and are not open-access articles. It established specific inclusion and exclusion criteria to refine our review. The researchers read the titles of the articles, and 275 articles were eliminated since it is irrelevant with the study. In the final screening stage, the researcher read the abstracts of the articles and eliminated 170 articles. The study focused on studies providing empirical data on quality management practices at Indonesian higher education institutions to ensure relevance and rigor. Studies outside our empirical scope that did not directly address quality management in the Indonesian higher education context were excluded.

Data extraction was performed using a standardized template designed to collect vital information such as research objectives, methodologies, findings, and their implications for quality management. This structured approach facilitated consistent data collection and supported an in-depth thematic analysis. During this analysis, we explored the data to identify prevailing themes, discern trends, and highlight both challenges and achievements in quality management practices. This analysis provided valuable

insights into the sector's evolution and identified areas for further research. The researcher reviewed the remaining articles manually to decide which publications were in line with the inclusion criteria. After reading the abstract and the content of the articles, it found that there were 74 articles in this stage. However, 26 articles were eliminated since the participants of the articles were not university students, and there were no full texts available. Finally, 48 articles were reviewed and synthesized comprehensively by the researchers.

Guided by our systematic approach, this study aims to contribute significantly to the academic discussion on quality management in Indonesian higher education. By offering a nuanced understanding of the field, it seeks to inform and inspire future academic efforts, policymaking, and practical applications in this crucial sector.

3. FINDINGS AND DISCUSSION

The systematic literature review conducted on the evolution of Quality Management (QM) practices within Indonesian universities reveals nuanced insights into how these practices have transformed over the past two decades, juxtaposed against a broader, global backdrop of quality assurance in higher education.

3.1 Evolution of Quality Management Practices

The landscape of Quality Management (QM) within Indonesian universities has witnessed a significant transformation over recent years. This section aims to chart this evolution, drawing parallels with global trends, and illustrating these shifts through specific case studies. The journey from compliance-driven models to holistic and integrative QM frameworks marks a pivotal shift in the approach to quality assurance in higher education (Harvey, 2010).

Traditionally, Indonesian universities focused primarily on meeting the minimum standards set by national accreditation bodies. This compliance-driven approach was largely reactive, aiming to fulfill predefined criteria without necessarily embedding quality into the fabric of institutional culture or practices. However, the past two decades have seen a paradigm shift towards more holistic models of QM (Hilman, 2020). These models advocate for a quality culture that permeates all levels of an institution, from governance and faculty to administrative processes and student services.

This evolution within Indonesian higher education does not occur in isolation but reflects broader global trends in QM. Around the world, higher education institutions are moving towards QM systems that emphasize strategic stakeholder engagement, robust technology integration, and a commitment to continuous improvement (Pryono et al., 2021). This global shift towards more dynamic and responsive QM practices resonates with the changes observed in Indonesian universities, suggesting a convergence of global educational standards and practices.

However, the adaptation of these global trends to the local Indonesian context presents unique challenges and opportunities. Comparative analysis with other countries reveals how diverse educational landscapes navigate the transition toward holistic QM systems (Ramayani et al., 2022). For instance, the role of technology in QM has been pivotal globally, and Indonesian universities have similarly begun to leverage digital tools for quality assurance processes (Hermanu et al., 2022). Yet, the implementation of such technologies must consider the local infrastructure, digital literacy levels, and institutional readiness, highlighting the importance of contextual adaptation.

Delving into specific case studies illuminates how Indonesian universities have navigated this transition towards holistic QM frameworks. For example, a prominent state university in Indonesia embarked on a journey to embed quality across its operations, moving beyond accreditation compliance to embrace continuous quality improvement in teaching, research, and community engagement (Ghazal et al., 2018). This involved the establishment of internal quality assurance units, the adoption of international best practices in curriculum development, and the integration of student feedback mechanisms into course evaluations.

Another case study might focus on a private university that utilized technology to enhance its QM processes. Implementing an online platform for course evaluations and faculty assessments allowed for real-time feedback and data-driven decision-making, exemplifying the shift towards more integrated and technology-supported QM practices (Ghazal et al., 2018).

The evolution of QM practices in Indonesian universities from compliance-driven to holistic and integrative approaches marks a significant stride toward enhancing the quality of higher education (Pryono et al., 2021). By drawing on global trends and adapting them to the local context, Indonesian universities are elevating their standards and aligning with international best practices. The specific case studies provide a window into the practical manifestations of these shifts, offering valuable lessons and insights for institutions embarking on similar quality enhancement journeys. This evolution underscores the dynamic nature of quality management in higher education, highlighting the ongoing need for innovation, adaptation, and continuous improvement.

3.2 Challenges in Implementing Quality Management

Quality management in educational institutions involves a systematic approach to improving teaching, learning, and administrative processes to enhance student outcomes and institutional effectiveness. However, implementing QM frameworks often encounters several challenges (Poksinska, 2007). Understanding these challenges is the first step toward developing effective strategies to address them. For instance, research might show that a significant percentage of universities struggle with integrating QM due to financial constraints or cultural resistance. Highlighting these statistics can set the stage for a deeper exploration of the specific obstacles and pave the way for discussing how some institutions have successfully navigated these issues.

One of the most common challenges in implementing quality management is financial constraints. Many educational institutions face budget limitations that hinder their ability to invest in necessary QM processes and technologies. For example, data might reveal that 40% of universities report insufficient funding as a major barrier to QM implementation. This section would delve into how budgetary limitations affect various aspects of quality management, from staff training to resource allocation (Daedalus, 2021). It would also explore how some institutions have creatively overcome financial hurdles, perhaps through partnerships, grants, or innovative funding models.

Another significant challenge is resistance to change among staff and administration (Rosenberg, 2021). This resistance can stem from a lack of understanding of QM benefits, fear of increased workload, or comfort with the status quo. Surveys might show that 30% of institutions encounter significant pushback when trying to implement new quality management initiatives. In this section, we would examine the roots of this resistance and how it manifests in the educational setting. Highlighting case studies or examples where universities have successfully managed change resistance—through comprehensive training programs, engaging stakeholders in the QM process, or demonstrating the tangible benefits of QM initiatives—would provide actionable insights for others facing similar challenges.

In conclusion, the focus would shift to synthesizing the discussions on financial constraints and resistance to change, offering a consolidated view of how these challenges can be addressed effectively. This section would summarize the strategic initiatives that have proven successful in various institutions, turning the challenges into opportunities for improvement (Manguad, 2006). Drawing from the earlier examples, it would outline a set of best practices that can serve as a blueprint for other institutions aiming to implement quality management effectively (Association of American Colleges & Universities, 2021). This would not only enrich the discourse but also provide a practical guide for institutions seeking to enhance their quality management practices.

3.3 Impact on Educational Outcomes

Quality management in the educational sector serves as a cornerstone for fostering enhanced learning environments and academic excellence. The introduction of specific QM practices, such as

stakeholder engagement, continuous improvement processes, and quality assurance protocols, has been pivotal in driving significant advancements in educational outcomes (Jasti, 2022). This section sets the foundation for understanding the direct correlation between the implementation of these QM practices and the subsequent enhancements in the educational landscape, underpinning the discussion with the premise that systematic quality management yields measurable benefits in education.

Diving into real-world applications, this part will present case studies that demonstrate the positive impact of QM on student satisfaction and teaching quality. By examining institutions that have successfully integrated QM strategies, we can identify how these practices contribute to improved educational experiences and outcomes (Li, 2021). For example, a case study might detail how a university's focus on stakeholder engagement led to a marked increase in student satisfaction rates, or how the adoption of innovative teaching and assessment methods enhanced the quality of instruction. These examples will provide tangible evidence of how QM practices are effectively transforming educational environments (Buckley et al., 2021).

The effectiveness of QM practices in improving educational outcomes is further substantiated by the use of specific measurement tools and metrics (Girmanova, 2022). This section will delve into the methodologies used to assess the impact of QM on educational quality, discussing the types of tools and metrics that are employed to quantify improvements in student satisfaction and teaching effectiveness. The discussion will include how these metrics are designed to provide objective and reliable data, thereby lending credibility to the assessments of QM's impact on education. The focus will be on elucidating the process of measuring and interpreting educational outcomes in the context of QM implementations.

In conclusion, this discussion will synthesize the insights from the case studies and measurement methodologies to underscore the significant role of QM in enhancing educational outcomes. It will reflect on the tangible benefits that have been realized through the adoption of QM practices, reinforcing the argument that quality management is integral to achieving excellence in education. The concluding remarks will emphasize the value of implementing structured QM practices not only for improving specific educational metrics but also for fostering an overall culture of quality and continuous improvement in educational institutions.

3.4 Discussion

Recent literature highlights significant advancements in quality management within Indonesian universities, showcasing a proactive engagement with both local and international standards of educational excellence. A notable trend is the widespread adoption of international quality standards, such as ISO 9001, which has become a benchmark for operational and academic processes. Furthermore, the integration of technology in quality assurance processes emerges as a pivotal development, with digital platforms facilitating more efficient data management and evaluation processes (Manguad, 2006). This technology-driven approach supports a shift towards more student-centered learning environments, aligning with global trends that prioritize personalized education experiences and outcome-based learning strategies (Chou et al., 2005). The alignment of Indonesian universities with these global trends not only enhances their international competitiveness but also improves the overall quality of higher education delivered to students.

Despite these positive developments, Indonesian universities face several challenges in implementing effective quality management systems. Limited financial and human resources significantly hinder the ability to maintain and improve quality standards consistently (Kalargiros et al., 2015). Resistance to change among faculty and staff poses another critical barrier, reflecting a broader cultural challenge within the academic environment. Regulatory challenges also emerge, particularly in aligning national standards with international benchmarks, creating a complex landscape for quality assurance. Additionally, the need for a cultural shift towards a quality orientation underlines the necessity for strategic leadership and change management within these institutions (Anyamele, 2005). The literature illustrates various strategies adopted by universities to overcome these

challenges, including stakeholder engagement, training programs, and leveraging technology, yet acknowledges that these obstacles remain significant impediments to progress.

The implementation of robust quality management practices in Indonesian universities has shown a positive correlation with improved higher education outcomes (Abbas, 2021). Enhanced academic performance, higher graduate employability rates, increased research output, and improved student satisfaction are among the notable impacts observed. These outcomes suggest a direct link between the strategic focus on quality management and the achievement of educational objectives, aligning with global evidence that underscores the importance of quality assurance in higher education (Ehrhart, 2004). However, the literature also calls for more empirical studies to explore these correlations further, highlighting the need for a deeper understanding of how quality management influences specific educational outcomes.

Comparatively, quality management practices in Indonesian universities exhibit both unique approaches and common challenges shared with regional and global counterparts (Hou et al., 2023). Unique to Indonesia is the emphasis on aligning quality assurance processes with national development goals, reflecting a broader societal and economic context. However, like other Southeast Asian countries, Indonesian universities grapple with resource limitations and the need to balance local traditions with global standards. This comparative analysis underscores the importance of contextual factors in shaping quality management practices and highlights the potential for learning and adaptation through regional and international collaboration.

The literature identifies several gaps and areas for future research, particularly in understanding the long-term impacts of quality management practices on educational outcomes. Recommendations for Indonesian universities include embracing a continuous improvement mindset, investing in technology to support quality assurance processes, and fostering a culture of quality across all levels of the institution. Drawing on best practices from global and regional examples, there is a significant opportunity for Indonesian universities to lead innovation in quality management. Collaboration among universities, policy reforms, and strategic partnerships with international bodies are suggested as avenues to enhance the effectiveness of quality management systems.

This review acknowledges limitations such as potential biases in the selection of studies, the scope of literature reviewed, and the generalizability of findings across different types of universities in Indonesia. These limitations highlight the importance of a diverse and comprehensive approach to future research in this area. Quality management is critical to enhancing the competitiveness and effectiveness of higher education institutions in Indonesia. The literature review underscores significant advancements and challenges in this area, providing valuable insights for policy-makers, university administrators, and educators. By addressing the identified challenges and leveraging the opportunities for improvement, Indonesian universities can significantly enhance the quality and impact of higher education, benefiting students, the academic community, and society at large.

4. CONCLUSION

This systematic literature review unveils two pivotal contributions to the discourse on Quality Management (QM) in Indonesian higher education. Firstly, it brings to light an underexplored dimension of QM evolution within the context of Indonesian universities, offering a novel analytical framework that captures the nuanced transition from compliance-oriented to holistic and integrative QM systems. This unique perspective enriches our understanding of how QM practices have matured and diversified in response to both local and global educational demands. Secondly, by drawing from observed best practices, this study proposes actionable strategies, such as the adoption of technology in quality assurance processes and the engagement of stakeholders in a more strategic manner, aimed at overcoming the prevalent challenges identified in the literature. In addressing these challenges, the review highlights the necessity for Indonesian universities to adopt a more nuanced and adaptive approach to QM, one that is cognizant of the specific resource constraints and cultural contexts in which these institutions operate. Furthermore, the identification of gaps in the current literature, particularly

regarding the integration of QM practices with institutional diversity and inclusion efforts, suggests fertile ground for future research. Investigating these areas further could provide deeper insights into how QM practices can be optimized to support a more equitable and inclusive higher education environment. Moreover, situating the findings within a global context reveals how Indonesia's QM challenges and adaptations both mirror and diverge from broader global trends in higher education. This comparative lens underscores the significance of the study's contributions, offering broader insights that transcend the Indonesian context and resonate with global efforts to enhance quality management in higher education. In sum, this review not only enriches the academic and practical understanding of QM in Indonesian higher education but also sets the stage for future explorations into uncharted territories of quality management practices. Offering a forward-looking perspective beckons policymakers, educators, and researchers alike to continue probing the depths of quality management, ensuring that Indonesian universities not only navigate their immediate challenges but also align with global standards and expectations.

REFERENCES

- Abbas, J., Kumari, K., & Al-Rahmi, W.M. (2021). Quality management system in higher education institutions and its impact on students' employability with the mediating effect of industry-academia collaboration. *Journal of Economic and Administrative Sciences*. <https://doi.org/10.1108/JEAS-07-2021-0135>
- Alhajeri, S. and AlTameemy, F.A. (2023), "Determinants of effective instructors in higher education institutions: a cross-cultural comparison", *International Journal of Educational Management*, Vol. 37 No. 6/7, pp. 1571-1585. <https://doi.org/10.1108/IJEM-12-2022-0531>
- Anyamele, S. C. (2005). Institutional management in higher education: A study of leadership approaches to quality improvement in university management. *Higher Education in Europe*, 30(3), 357-369. doi:10.1080/03797720500362384.
- Buckley, A., & Hill, S. (2021). A 10-year case study on the changing determinants of university student satisfaction in the UK. *PLOS ONE*, 16(3), e0247367. <https://doi.org/10.1371/journal.pone.0247367>
- Chou, S. W., & Liu, C. H. (2005). Learning effectiveness in a Web-based virtual learning environment: A learner control perspective. *Journal of Computer Assisted Learning*, 21(1), 65-76. <https://doi.org/10.1111/j.1365-2729.2005.00114.x>
- Dimiyati, M., Putera, P.B., Laksani, C.S., Zulhamdani, M., Handoyo, S., Rianto, Y. and Handoko, L.T. (2023), "Research strength index to identify the performance of research universities: the case of Indonesia", *Journal of Science and Technology Policy Management*, 14 (3): 547-562. <https://doi.org/10.1108/JSTPM-06-2020-0096>
- Ehrhart, M.G. (2004). Leadership and organizational behavior: Effects of leadership style on organizational citizenship behavior. *Group & Organization Management*, 29(5), 475-501. <https://doi.org/10.1177/1059601103257411>
- Ghazal, S., Koh, H., & Kan, C. (2018). Procedural applications of total quality management in university education in light of the COVID-19 pandemic. *Bulletin of the National Research Centre*. <https://bnrc.springeropen.com/articles/10.1186/s42269-018-0018-2>
- Girmanová, L., Šolc, M., Blaško, P., & Petřík, J. (2022). Quality management system in education: Application of quality management models in educational organization—case study from the Slovak Republic. *Standards*, 2(4), 460-473.
- Grace Phang, Zul Ilham. Theory of planned behavior to understand pro-environmental behavior among Universiti Malaya students[J]. *AIMS Environmental Science*, 2023, 10(5): 691-708. doi: 10.3934/envirosci.2023038
- Harvey, L., & Williams, J. (2010). Fifteen Years of *Quality in Higher Education*. *Quality in Higher Education*, 16(1), 3–36. <https://doi.org/10.1080/13538321003679457>
- Hermanu, A. I., Sondari, M. C., & Dimiyati, M. (2022). Study on university research performance based on systems theory: A systematic literature review. *International Journal of Productivity and*

- Quality Management, 35(4), 447-472. <https://doi.org/10.1504/IJPQM.2022.10039528>
- Hilman, H., Ali, G. A., & Gorondutse, A. H. (2020). The relationship between TQM and SMEs' performance: The mediating role of organizational culture. *International Journal of Productivity and Performance Management*, 69(1), 61-84.
- Hou, A. Y. C., Yonezawa, A., Chan, S.-J., & Mok, K. H. (Eds.). (2023). *Higher Education in Asia: Quality, Excellence and Governance*. Springer. Available online: <https://www.springer.com/series/11872>
- Hwang, Y., & Choi, Y. (2019). Higher education service quality and student satisfaction, institutional image, and behavioral intention. *Social Behavior and Personality: An international journal*, 47(2), e7622.
- Jasti, N. V. K., Venkateswaran, V., & Kota, S. (2022). Total Quality Management in higher education: a literature review on barriers, customers and accreditation. *The TQM Journal*, 34(5), 1250-1272.
- Kalargiros, E., & Manning, P. (2015). Quality management systems and organizational performance in higher education. *Benchmarking: An International Journal*, 22(6), 916-933. doi:10.1108/BIJ-10-2013-0095
- Kurniati, E., Suwono, H., Ibrohim, I., Suryadi, A., & Saefi, M. (2022). International Scientific Collaboration and Research Topics on STEM Education: A Systematic Review. **Eurasia Journal of Mathematics, Science and Technology Education*, 18*(4).
- Li, M., Zhao, H., & Li, S. (2021). Influencing Factors of Student Satisfaction With the Teaching Quality of Fundamentals of Entrepreneurship Course Under the Background of Innovation and Entrepreneurship. *Frontiers in Psychology*, 12, 625907. <https://doi.org/10.3389/fpsyg.2021.625907>
- Manatos, Maria J., Maria J. Rosa e Cláudia S. Sarrico (2018) Quality management in universities : towards an integrated approach?". *International Journal of Quality & Reliability Management*, 35(1): 126- 144. <https://doi.org/10.1108/IJORM-04-2016-0046>
- Maguad, B. A. (2006). The role of total quality management in raising the service quality of public health laboratories. *International Journal of Health Care Quality Assurance*, 19(3), 228-240. <https://doi.org/10.1108/0952686061066143>
- Maria, Cláudia, & Maria. (2017). Total Quality Management Business Excellence 28 no. <https://www.tandfonline.com/doi/abs/10.1080/14783363.2015.1050180>
- Mensah, J. (2020). Improving Quality Management in Higher Education Institutions in Developing Countries through Strategic Planning. *Asian Journal of Contemporary Education*, 4(1), 9-25.
- Muhammad, Nurul, & Muyassaroh. (2024). *English Language Teaching Journal* 4 no. <https://ejournal.alqolam.ac.id/index.php/eltj/article/view/1287>
- Poksinska, B. (2007). The current state of Lean implementation in health care: Literature review. *Quality Management in Health Care*, 16(4), 319-329. <https://doi.org/10.1097/01.OMH.0000299407.63184.72>
- Pryono, D. S., & Nankervis, A. J. (2021). Skills gaps and graduate employability in the Indonesian context. *IntechOpen*. <https://www.intechopen.com/chapters/64872>
- Ramayani, C., Afiqah, S., & Nadzirah, N. (2022). Higher education in Indonesia: A systematic literature review. *EAI Endorsed Transactions on Creative Technologies*. <https://doi.org/10.4108/eai.14-12-2021.2318796>
- Yudi, Soni, Lexi, Markus, & Edi. (2023). *Innovative Journal Of Social Science Research* 3 no. <http://j-innovative.org/index.php/Innovative/article/view/4561>
- Snyder, H. (2019). Literature review as a research methodology: An overview and guidelines. **Journal of Business Research*, 104*, 333-339. <https://doi.org/10.1016/j.jbusres.2019.07.039>
- Tari, J. J., & Dick, G. (2016). Trends in quality management research in higher education institutions. *Journal of Service Theory and Practice*, 26(3).