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Quality assurance in higher education: Trends and insights from a systematic literature review

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Abstract: Quality assurance in higher education is vital for ensuring institutional accountability, improving educational standards, and meeting stakeholder expectations. However, few studies offer clear directions for future research, highlighting the need for further exploration. To address this, this study uses a Systematic Literature Review (SLR) approach to map key research topics in quality assurance. A total of 2,578 Scopus-indexed articles published between 2013 and 2023 were analyzed, employing keyword co-occurrence mapping to identify thematic clusters. The data analysis was conducted using VOSviewer to uncover trends and advancements in the field. The results reveal four distinct clusters: The red cluster focuses on institutional and policy frameworks, highlighting the role of teaching, policy, and standards. The green cluster emphasizes student perceptions, satisfaction, and service quality, reflecting the growing importance of the student experience. The blue cluster examines accreditation processes, emphasizing their role in maintaining academic standards and ensuring compliance. The yellow cluster explores leadership and engagement, focusing on the relationship between school leadership, stakeholder involvement, and quality assurance practices. These findings offer a strong foundation for advancing both scholarly discourse and practical applications in quality assurance and provide valuable insights to guide future research in addressing emerging challenges in higher education.

Keywords: Accreditation processes, Higher education, Institutional and policy frameworks, Leadership and engagement, Quality assurance, Student experience.

1. Introduction

Quality assurance in higher education serves as an indispensable cornerstone for promoting and sustaining the integrity and excellence of academic institutions (Khuram et al., 2023). Far from being a mere bureaucratic requirement, it operates as a comprehensive system designed to ensure that educational offerings align consistently with the expectations of students, employers, and society. This structured framework encompasses the evaluation and enhancement of critical components such as teaching methodologies, learning outcomes, research initiatives, and administrative processes (Seyfried & Pohlenz, 2018). Robust quality assurance mechanisms enable institutions to uphold their credibility and enhance their competitiveness within a dynamic educational landscape shaped by technological advancements and evolving societal needs. The implementation of rigorous evaluation processes for teaching staff underscores the importance of quality assurance. Institutions regularly conduct peer reviews, analyze student feedback, and provide professional development opportunities to identify areas for improvement (Aburizaizah, 2022). This approach ensures that educators not only possess expertise in their respective fields but also employ effective teaching strategies. Consequently, students benefit from enriched learning experiences that foster academic achievement and the development of critical thinking skills essential for future careers.

Quality assurance also cultivates a culture of accountability within educational institutions (Prakash, 2018). This accountability ensures the effective allocation and utilization of resources in alignment with

institutional missions and goals. For instance, universities may prioritize funding to upgrade technological infrastructure, thereby supporting innovative teaching methods. Such initiatives demonstrate a commitment to delivering high-quality education while equipping students with essential skills for thriving in a technology-driven workforce. These strategic resource allocations enhance the educational environment and reinforce stakeholder confidence in the institution's mission. The accreditation process further highlights the significance of quality assurance as a benchmark for evaluating the credibility and trustworthiness of academic institutions (Moreno et al., 2019). Accreditation bodies assess various institutional aspects, including curricula, faculty qualifications, and student support services. Successful accreditation enhances an institution's reputation and instills confidence in prospective students and funding agencies. In an era of abundant educational choices, accreditation emerges as a vital factor influencing students' decisions when selecting institutions that offer valuable and recognized degrees (Sofyani et al., 2023).

Quality assurance drives continuous improvement by enabling institutions to adapt proactively to the evolving educational landscape. As trends and challenges emerge, institutions use quality assurance systems to evaluate and update their programs to maintain relevance and effectiveness. Institutions that prioritize educational quality create environments where students feel supported, engaged, and motivated to succeed (Hien et al., 2020). Feedback mechanisms allow students to express concerns about course content or teaching methods, enabling institutions to make informed adjustments. By valuing and responding to student input, institutions foster a strong sense of belonging and commitment among students, which translates into higher retention rates and improved academic outcomes. At its core, a robust quality assurance system safeguards the integrity of academic programs, ensuring that graduates are skilled and competent professionals prepared to meet the demands of the global workforce. In a competitive job market, employers seek graduates equipped with both theoretical knowledge and practical skills. Quality assurance supports this by ensuring that curricula are designed to cultivate these competencies (Twum & Peprah, 2020). For instance, institutions often collaborate with industry partners to develop programs aligned with current job market trends, ensuring graduates are wellprepared to succeed in their chosen fields.

Quality assurance in higher education is a multifaceted framework that plays a critical role in ensuring the delivery of high-quality education. By fostering accountability, supporting accreditation processes, driving continuous improvement, and enhancing the overall student experience, quality assurance mechanisms significantly contribute to the credibility and competitiveness of academic institutions. Ultimately, a robust quality assurance system safeguards the integrity of academic programs and cultivates a generation of skilled graduates equipped to navigate the complexities of the global workforce. As higher education continues to evolve, an ongoing commitment to quality assurance will remain essential in shaping the future of education and preparing students for success in an ever-changing world (Skydan, 2023).

Although quality assurance has been extensively studied in primary and secondary education, particularly in high schools and middle schools, research focusing specifically on quality assurance in higher education remains limited. Existing studies often explore how quality assurance frameworks are implemented to enhance teaching and learning outcomes (Boelens et al., 2018), improve administrative processes (Yang, 2023), and ensure institutional accountability at the university level. These studies have provided valuable insights into strategies for maintaining educational quality and meeting accreditation standards. However, the unique dynamics and complexities of higher education—such as diverse student populations, multidisciplinary academic programs, research activities, and global competitiveness—necessitate a more tailored approach to quality assurance. Higher education operates within a distinct environment that involves not only teaching but also research, community engagement, and the alignment with global standards. Despite the increasing importance of quality assurance in accreditation processes, international rankings, and the need to produce globally competitive graduates, there is a notable gap in the literature addressing how quality assurance practices are adapted to meet these multifaceted demands.

Higher education institutions face challenges such as managing large-scale operations, integrating technology into education, and addressing the expectations of diverse stakeholders—issues that remain

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underexplored in the context of quality assurance. While research on quality assurance at the school level has provided foundational knowledge (Xie & Zhang, 2020), these findings may not fully capture the complexities of higher education environments. Therefore, there is a clear need for studies that not only investigate the application of quality assurance frameworks in higher education but also explore the unique challenges and opportunities within this context. Research that synthesizes existing findings and introduces innovative approaches tailored to higher education will significantly contribute to the field. Areas of exploration could include the development of quality assurance models for higher education, the role of technology and data analytics in enhancing quality assurance practices, and the impact of these practices on institutional performance and student outcomes.

The urgency of this research lies in its potential to contribute to the body of knowledge on quality assurance in higher education by identifying areas that offer opportunities for future research. Higher education institutions are continuously evolving, facing challenges such as globalization, technological integration, and increasing demands for accountability and transparency in providing quality education. Ultimately, the urgency of this research lies in its potential to inspire and direct future investigations, ensuring that quality assurance remains a dynamic and evolving field capable of addressing the complex realities of higher education. By identifying and presenting relevant topics, this study empowers researchers to pursue impactful studies that contribute to the continuous improvement and global competitiveness of higher education institutions. However, existing research has primarily focused on practices at the school level, leaving gaps in understanding the unique needs and dynamics of higher education. This study plays a critical role in addressing these gaps by offering a comprehensive exploration of quality assurance topics specific to higher education. In doing so, it establishes a foundation for future research.

The relevance of this research extends to its ability to guide policymakers and academic leaders in formulating strategies that align with contemporary demands. Mapping underexplored areas, this study enriches academic discourse and opens pathways for interdisciplinary research, bridging gaps between quality assurance, educational technology, and policy development. Thus, this study serves as a cornerstone for advancing the conversation on quality assurance in higher education, ensuring alignment with global standards and addressing the multifaceted challenges of the 21st century.

2. Method

This study employs a Systematic Literature Review (SLR) approach to comprehensively examine research on quality assurance in higher education. The data were collected from a total of 2,578 research articles that specifically address quality assurance within the context of higher education institutions. To ensure relevance and currency, the selected studies are limited to a publication range of the last 10 years, spanning from 2013 to 2023. The articles included in this review were exclusively sourced from Scopus, a highly reputable and widely used academic database known for its rigorous indexing standards. The data collection process involved systematic and transparent criteria to identify, screen, and select relevant studies. Key search terms and filters were applied to ensure that only high-quality articles addressing the research objectives were included. The extracted data consist of bibliographic information, keywords, abstracts, and other relevant metadata from each selected article.

Once the data were collected, they were analyzed using VOSviewer, a specialized software tool designed for constructing and visualizing bibliometric networks (Bukar et al., 2023). VOSviewer enables the identification of patterns, trends, and relationships within the literature by generating visual maps that highlight clusters of frequently used terms, co-citation relationships, and thematic connections across studies (Kirby, 2023). This method facilitates a detailed exploration of the evolution of research on quality assurance in higher education, revealing key areas of focus, gaps, and potential avenues for future investigation. Through the integration of SLR and bibliometric analysis, this study ensures a robust and systematic approach to synthesizing existing research. The use of Scopus-indexed articles guarantees that the findings are based on high-impact and peer-reviewed studies, while VOSviewer enhances the interpretative depth by offering a visual representation of the data.

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3. Result

The results of this study have compiled a total of 2,578 Scopus-indexed articles using the keywords "quality," "assurance," and "higher education." These keywords were applied to search for articles published between 2013 and 2023. The findings are presented in Figure 1.

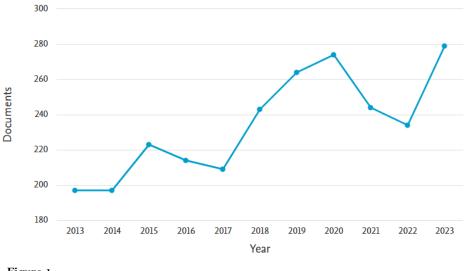
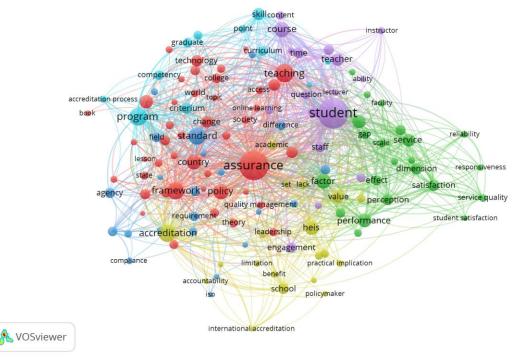
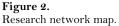


Figure 1. Research Trend 2013-2023.

Figure 1 shows an increasing trend in research on the topic of quality assurance in higher education. The upward trend began in 2017 and has continued to grow, indicating that this research topic is of increasing interest and warrants further investigation. The collected data were then processed using VOSviewer. The results of the analysis using VOSviewer are shown in Figure 2.

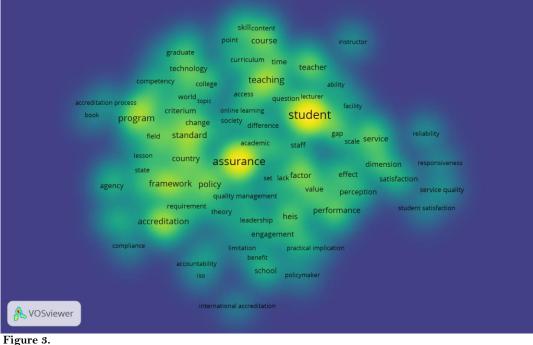




The VOSviewer visualization presents a network map, as shown in Figure 2, of keywords related to quality assurance in higher education based on bibliometric analysis. The central keyword, "assurance," is positioned centrally in the map, indicating its high frequency and strong connectivity with other terms. This highlights its pivotal role in the research domain. Other prominent keywords include "student," "teaching," "accreditation," "performance," and "policy." These terms represent significant themes in the study of quality assurance in higher education.

The map shows several distinct clusters, each represented by a unique color. These clusters indicate groups of related keywords that often co-occur in the literature:

- a. Red Cluster: Focuses on assurance-related topics such as "teaching," "policy," "framework," and "standard." This cluster likely represents research on institutional and policy frameworks for quality assurance.
- b. Green Cluster: Centers around "student," "service," "satisfaction," and "dimension." This suggests studies emphasizing student perceptions, satisfaction, and service quality as part of quality assurance processes.
- c. Blue Cluster: Includes terms like "accreditation," "program," "standard," and "agency." This cluster highlights research on accreditation processes and their role in maintaining academic standards.
- d. Yellow Cluster: Contains terms such as "engagement, "leadership," and "practical implication." This finding indicate research exploring the practical aspects of leadership and engagement in quality assurance practices.



Density map.

The lines connecting the keywords represent co-occurrences in the literature. The density and number of connections indicate a highly interrelated field, as shown in Figure 3, where concepts such as "student satisfaction," "teaching quality," and "accreditation standards" are frequently discussed together. The central position of keywords like "assurance" and "student" indicates their widespread integration across various themes. The emphasis on students as a central focus reflects the growing importance of student-centered quality assurance practices. The presence of terms such as "policy," "framework," and "accreditation" highlights the regulatory and structural dimensions of quality assurance. Emerging themes like "engagement" and "service quality" suggest an evolving focus on holistic and participatory approaches to quality assurance.

4. Discussion

The central focus on "students" within the network signifies a profound and transformative shift toward student-centered approaches in quality assurance. This movement aligns with global trends that prioritize enhancing student experiences, outcomes, and satisfaction. Higher education institutions must position students at the core of their quality assurance frameworks. This ensures that teaching methods, curricula, and support systems not only align with but also respond to the diverse needs and expectations of students (Dzimińska et al., 2018). The emphasis on student-centered quality assurance appears in educational reforms worldwide. Institutions increasingly recognize that student engagement and satisfaction are crucial to the overall effectiveness of educational delivery. Institutions can identify gaps in their offerings and make the necessary adjustments, which ultimately lead to enhanced student outcomes. This dynamic interaction between student input and institutional response illustrates the fundamental shift toward a more inclusive and responsive educational environment (Kettunen, 2015). Furthermore, the inclusion of "teaching" and "performance" among the most connected keywords highlights the critical focus on evaluating teaching quality and institutional performance as key determinants of overall educational quality. High-quality teaching is essential not only for imparting knowledge but also for fostering critical thinking, creativity, and problem-solving skills among students.

The presence of "accreditation" and "policy" as prominent terms underscores the importance of governance and external evaluation in maintaining quality standards. Accreditation processes validate institutional credibility, ensuring that educational programs meet established national and international benchmarks (Prakash, 2018). External scrutiny reinforces public trust in higher education institutions and incentivizes them to uphold high educational quality standards. Moreover, the findings suggest that future research could explore how accreditation systems foster innovation and adaptability within higher education institutions, especially in rapidly evolving educational environments. The role of technology in enhancing quality assurance processes, although indirectly related, warrants further investigation. The digital transformation of education creates new opportunities for quality assurance, enabling institutions to use data analytics, learning management systems, and online assessments to monitor and improve educational quality (Reda, 2017). Institutions utilizing data analytics gain real-time insights into student performance and engagement, enabling informed decisions regarding curricular adjustments and support services. This technological integration streamlines quality assurance processes and fosters a more personalized learning experience for students.

The identification of a cluster focusing on assurance-related topics such as "teaching," "policy," "framework," and "standard" highlights a strong emphasis on the structural and institutional dimensions of quality assurance in higher education. This cluster reflects a substantial body of research that examines the policies and frameworks governing quality assurance practices within institutions. Teaching, policy, framework, and standard all play crucial roles in shaping the landscape of quality assurance, contributing to the overarching goal of enhancing educational outcomes and institutional accountability (Kayyali, 2023). The theme of "teaching" stands out as a central pillar in the discourse on quality assurance. Effective pedagogy and instructional methods are not mere adjuncts to the educational process; they form the very foundation of student success. Research consistently links quality teaching to improved student outcomes. The effectiveness of teaching practices significantly influences student engagement, retention, and overall academic performance (Ofojebe & Olibie, 2014). This relationship underscores the need for institutions to prioritize pedagogical excellence within their quality assurance frameworks. Teaching's role in quality assurance extends beyond instructional techniques; it encompasses the broader pedagogical strategies that institutions adopt to create a conducive learning environment (Zhang et al., 2022). Institutions that embed these pedagogical practices within their quality assurance frameworks deliver a more holistic educational experience.

Turning to the theme of "policy," governance mechanisms play a pivotal role in establishing the standards and processes for quality assurance. Policies serve as guiding principles that shape institutional practices, ensuring alignment with both internal objectives and external expectations. The discussion of standards must also consider the evolving nature of higher education. The rapid advancement of technology, shifts in labor market demands, and changing student expectations require a reexamination of existing standards. Institutions must engage in reflective practices that allow for the continuous evolution of quality assurance measures. For instance, integrating digital tools and online learning platforms has transformed traditional pedagogical approaches, prompting a reevaluation of standards related to teaching effectiveness and student engagement (Pramono et al., 2023). Institutions embracing a more flexible approach to standards can better respond to the complexities of modern education while maintaining their commitment to quality.

The inclusion of "satisfaction" in the context of educational service quality highlights a crucial aspect that has garnered significant attention in recent years. Student satisfaction is not a mere subjective feeling; it serves as a measurable outcome reflecting the overall effectiveness of an institution in fulfilling its mission. When considering satisfaction as a proxy for institutional success, we recognize that it encapsulates the degree to which student expectations align with the reality of academic and administrative services offered (Pun, 2020). This alignment is critical, as it directly influences students' perceptions of their educational experience and their subsequent loyalty to the institution. The availability of accessible facilities, such as well-equipped libraries and study areas, further contributes to positive sentiment. When students feel that their needs are met, they are more likely to develop a sense of belonging and commitment to their institution, ultimately enhancing the institution's reputation. Moreover, the relationship between satisfaction and institutional loyalty is vital; satisfied students are

more likely to recommend their institution to prospective students, fostering a positive feedback loop that benefits the institution in the long term (Singh & Chaudhary, 2018).

Delving deeper into service quality, the term "dimension" within this discussion underscores the necessity of evaluating specific aspects that contribute to the overall perception of service quality in educational settings. Frameworks such as the SERVQUAL model provide a structured methodology for dissecting service quality into distinct dimensions: reliability, responsiveness, assurance, empathy, and tangibles (Hajdari, 2019). Each dimension plays a vital role in shaping the student experience and their overall satisfaction with the institution. Reliability refers to the consistency and dependability of services offered. An institution that consistently delivers high-quality education and support services fosters trust among its students. This reliability is illustrated through the timely dissemination of grades and feedback, which is crucial for students' academic progress. Responsiveness speaks to the institution's ability to address student inquiries and concerns promptly. A university with a robust system for handling student feedback and complaints is likely to see increased satisfaction levels, as students feel valued and heard (Kwarteng, 2022).

Assurance, encompassing the competence and courtesy of staff, is another critical dimension. When students interact with knowledgeable and respectful faculty and administrative staff, they are more likely to feel confident in the quality of their education. Empathy, the ability to provide personalized attention and care, is equally important. Institutions that prioritize understanding and addressing individual student needs create an environment where students feel supported, leading to enhanced satisfaction (Pramono et al., 2023). The tangibles dimension, which includes physical facilities and resources available to students, cannot be overlooked. Well-maintained classrooms, modern technology, and inviting common areas contribute to a positive learning environment. The inclusion of "service" and "quality" within this cluster emphasizes a shift toward a more student-centered approach in quality assurance frameworks. Traditionally, many institutions relied heavily on compliance with external regulatory standards to gauge quality.

Accreditation serves as a fundamental benchmark for academic programs and institutions, ensuring they meet established standards of quality. This process is not a mere formality; it is a rigorous evaluation with significant implications for the educational landscape. The inclusion of the terms "standard" and "agency" emphasizes the collaborative relationship between educational institutions and accrediting bodies. Accreditation agencies, often operating at national or regional levels, play a pivotal role in setting the criteria for academic excellence. These criteria cover a broad spectrum, including curriculum design, faculty qualifications, research output, and student outcomes. Furthermore, program accreditation is often a prerequisite for professional licensure, reinforcing its critical role in ensuring educational outcomes meet societal needs (Yuan et al., 2021).

Adaptability is crucial, as the landscape of higher education continues to evolve rapidly. The rise of online learning platforms and the increasing demand for global competencies necessitate that accreditation standards reflect these changes. Institutions must remain agile, adjusting their programs to meet new expectations while maintaining the integrity of their educational offerings. The mention of "agency" highlights the critical role of accreditation bodies as gatekeepers of quality assurance. These agencies not only evaluate institutions but also provide guidance and support for continuous improvement. The relationship between agencies and institutions is often symbiotic. Institutions benefit from feedback that helps them enhance their programs, while agencies ensure accountability within the educational system (Singh & Chaudhary, 2018).

The inclusion of "leadership" highlights the pivotal role leaders play in cultivating a culture of quality within educational settings. Effective leadership is not just about managing resources; it involves inspiring a collective vision that prioritizes quality assurance at all levels of an institution. Leaders act as the guiding force, mobilizing resources, motivating stakeholders, and establishing robust accountability mechanisms (Kettunen, 2015). This multifaceted role shapes an environment where quality becomes a shared value, not merely an objective. Research shows that transformational leadership effectively promotes quality assurance. Leaders who demonstrate empathy, enthusiasm, and a commitment to professional development create an environment where educators feel valued and empowered. Effective leadership also establishes accountability mechanisms critical for sustaining

quality assurance efforts. Transparent processes for evaluating performance and providing constructive feedback ensure all stakeholders understand their roles and responsibilities in achieving quality outcomes (Asiyai, 2020). The term "engagement" emphasizes the importance of involving diverse stakeholders—teachers, students, parents, and administrative staff—in quality assurance processes. High levels of stakeholder engagement ensure quality assurance initiatives are inclusive and reflect the community's needs. When stakeholders feel their voices are heard and valued, they are more likely to contribute positively to the institution's quality improvement efforts.

Quality assurance is an ongoing process, not a one-time initiative. The dynamic interplay between leadership and stakeholder engagement creates a feedback loop that continuously informs and improves practices. Leaders and stakeholders collaborate, developing a shared language around quality and fostering a culture that prioritizes excellence in all aspects of education. Effective communication plays a critical role in the impact of stakeholder engagement on quality assurance. Communication channels facilitate the exchange of ideas, concerns, and suggestions among all parties. Regular meetings, newsletters, and digital platforms keep stakeholders informed and engaged. Transparent and inclusive communication builds trust and encourages collaboration, further enhancing the institution's quality assurance efforts.

5. Conclusion

This research aimed to map future research topics related to quality assurance in higher education through an analysis of the co-occurrence of keywords in the literature. The results revealed distinct thematic clusters, each reflecting specific focal areas within the broader discourse on quality assurance. The red cluster emphasizes institutional and policy frameworks, focusing on topics such as teaching, policy, framework, and standards. This highlights the critical role of structural and regulatory mechanisms in shaping quality assurance processes. The green cluster reflects studies centered on student perceptions, satisfaction, and service quality, underscoring the importance of understanding the student experience as a key component of institutional quality. The blue cluster concentrates on accreditation processes and their role in maintaining academic standards. It includes topics related to accreditation, programs, standards, and the role of agencies, signaling an operational focus on ensuring institutional and program-level compliance with established benchmarks. Finally, the yellow cluster explores the practical application of leadership and engagement strategies, focusing on the dynamic interplay between school-level leadership, stakeholder engagement, and the practical implications for quality assurance. These findings collectively provide a comprehensive overview of the current research landscape in quality assurance, offering valuable insights into key themes and emerging areas of interest. The identified clusters lay the groundwork for future studies to build on existing knowledge, explore interdisciplinary approaches, and address gaps in understanding. This research contributes to a clearer roadmap for advancing scholarship and practice in quality assurance in higher education.

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