

# Public service management in higher education: a systematic literature review

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## ARTICLE INFO

### Article history

Received: December 2024

Revised: January 2025

Accepted: January 2025

### Keywords

Higher education

Public service management

Systematic literature review

## ABSTRACT

This article examines public service management in higher education through *A Systematic Literature Review* (SLR), aiming to identify key aspects, challenges, and strategies in managing public services within universities. The study uses the SLR methodology to systematically gather, evaluate, and synthesize existing research on the topic. A thorough search of academic databases identified studies on service delivery efficiency, student-centered services, leadership, governance, and the integration of technology in university management. The results highlight ongoing challenges such as resource allocation, demographic shifts, and technological adaptation. However, strategies like *Total Quality Management* (TQM), public-private partnerships, and digital transformation emerge as crucial in enhancing service management. This review's novelty lies in its comprehensive approach, offering a synthesis of contemporary research on public service management in higher education, and presenting a detailed overview of current models and best practices. The findings of this study offer valuable insights into how institutions can optimize service delivery, improve governance, and better meet the evolving needs of students and stakeholders. By examining these strategies and challenges, this article provides a foundation for further research and practical applications aimed at improving public service management within higher education institutions.

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## INTRODUCTION

Public service management in higher education is an essential aspect of maintaining the effectiveness, efficiency, and quality of educational institutions. As universities and colleges face increasing pressure to meet the diverse needs of students, faculty, staff, and external stakeholders, the management of public services has become a critical factor in determining institutional success. Public services in higher education encompass a wide range of areas, including administrative support, student services, teaching quality, infrastructure, and resource allocation. Proper management of these services ensures that institutions are able to fulfill their mission of delivering high-quality education and contributing to social and economic development.

Over the years, higher education institutions have encountered a myriad of challenges in managing these public services. Among the most pressing issues are the rising costs of education, increasing

student expectations, the demand for personalized services, and the integration of technology into educational and administrative processes. These challenges have necessitated a shift toward more strategic and efficient management practices, with an increasing focus on enhancing service quality while optimizing available resources (Kanyinga et al., 2020). Moreover, the increasing complexity of governance structures within universities calls for a more integrated approach to service delivery, requiring coordination between various departments, stakeholders, and technologies.

The importance of student-centered services cannot be overstated. As students become the primary beneficiaries of public services in higher education, institutions must adapt their service delivery models to better align with students' needs and expectations. Student services such as academic advising, career counseling, mental health support, and extracurricular opportunities are integral to student success and satisfaction (Thompson & Durbin, 2021). The literature suggests that institutions must adopt a comprehensive approach to student engagement, ensuring that services are accessible, responsive, and tailored to diverse student populations (Patel et al., 2022). This student-centered model not only enhances the student experience but also fosters a culture of continuous improvement within higher education institutions.

Leadership and governance also play a pivotal role in shaping how public services are managed in higher education. Effective leadership is essential for creating an institutional culture that values collaboration, transparency, and accountability. Universities must embrace leadership models that promote stakeholder involvement and shared decision-making to effectively manage public services (Smith, 2021). Additionally, the governance of higher education institutions must evolve to accommodate changing expectations, not only from students but also from governments, industry partners, and communities. This dynamic environment calls for leaders who can navigate complex institutional needs while remaining responsive to external pressures (Barrett, 2021).

This article aims to provide a systematic review of the literature on public service management in higher education, focusing on identifying the key themes, challenges, and strategies employed by institutions to manage their services effectively. Through the SLR methodology, this study synthesizes existing research on public service management, examining various models, best practices, and emerging trends. By doing so, this review contributes to the understanding of how universities can adapt their management practices to improve service delivery, foster innovation, and enhance overall institutional effectiveness in the face of evolving challenges.

## METHOD

This study employs a systematic literature review (SLR) methodology to synthesize existing research on public service management in higher education. The systematic review method is chosen because it offers a comprehensive, transparent, and reproducible approach to aggregating evidence from various studies to identify trends, gaps, and consensus (Higgins & Green, 2011). By following a structured process, an SLR ensures that findings are derived from robust, reliable, and comparable data, which helps improve the quality of conclusions drawn from the literature (Booth et al., 2016).

### 1. Research Questions

The primary research questions that guided the review are as follows:

- a. What are the key aspects of public service management in higher education?
- b. What challenges do higher education institutions face in managing public services?
- c. What strategies or models have been proposed to enhance public service management in higher education?

These questions aim to explore the broader themes of public service management in higher education, focusing on service delivery, institutional governance, and leadership strategies. Formulating clear research questions is a key step in ensuring the systematic review remains focused and targeted to the specific research concerns (Creswell & Plano Clark, 2017). These questions are derived from the need to understand how universities and colleges manage public services and address challenges in a constantly evolving higher education landscape (Tranfield et al., 2003).

### 2. Search Strategy

A comprehensive search strategy was employed to capture a broad range of studies from multiple databases. The search was conducted across Google Scholar, Scopus, JSTOR, and ERIC, using keywords such as public service management, higher education, student services, university

governance, and digital transformation in education. The search was confined to articles published between 2000 and 2023 to ensure that only recent studies were considered, as this period reflects key developments in both public service management and higher education globally (Higgins & Green, 2011).

To increase the comprehensiveness of the search, Boolean operators like AND, OR, and NOT were used to refine results and eliminate irrelevant articles. This approach ensures that a wide range of studies is considered and allows for an inclusive examination of the topic across different geographical and institutional contexts (Booth et al., 2016).

The search utilized a combination of keywords and phrases, such as:

- a. "Public service management"
- b. "Higher education"
- c. "University administration"
- d. "Student services"
- e. "Higher education governance"
- f. "Digital transformation in education"
- g. "Public-private partnerships in education"

The search was restricted to articles published between 2000 and 2023, ensuring the inclusion of recent studies. Each database was queried for relevant articles, and the results were filtered based on relevance to the research questions.

### 3. Inclusion and Exclusion Criteria

The inclusion and exclusion criteria were established to ensure the review focused on high-quality and relevant studies:

Inclusion Criteria:

- a. Empirical studies focused on public service management within higher education institutions.
- b. Studies published in peer-reviewed journals or books.
- c. Research published between 2000 and 2023.
- d. Articles addressing public service management in a higher education context (administration, student services, leadership, governance, etc.).
- e. Studies that included qualitative or quantitative data on service delivery or institutional effectiveness.

Exclusion Criteria:

- a. Articles not directly related to higher education or public service management.
- b. Grey literature, such as reports or non-peer-reviewed sources.
- c. Studies published before 2000.
- d. Articles that focus solely on K-12 education or non-public institutions.

### 4. Data Extraction and Analysis

Once relevant studies were identified, key information was extracted from each article, including:

- a. Study objectives
- b. Methodology (qualitative, quantitative, mixed methods)
- c. Key findings related to service management models, challenges, and strategies
- d. Recommendations for improving public service management in higher education

This data was organized and analyzed using thematic analysis, allowing the identification of recurring themes, challenges, and solutions across the literature (Dixon-Woods & Fitzpatrick, 2001). The analysis aimed to categorize findings into areas such as service efficiency, leadership, governance, and technological innovation.

### 5. Synthesis of Results

The results from the extracted data were synthesized to identify overarching themes and insights into public service management in higher education. The synthesis process involves integrating findings from different studies and organizing them into meaningful categories. Common themes identified in the synthesis included leadership and governance models, service efficiency and quality, and technology integration. These themes were further analyzed to explore how they contribute to effective public service management in universities (Petticrew & Roberts, 2006).

Synthesis is key to ensuring that the results of the review provide not only an overview of the literature but also practical insights and actionable recommendations. By synthesizing the findings, the review generates a clearer understanding of the state of public service management and identifies gaps in the literature that could be addressed in future research (Gough et al., 2017). Synthesizing results also allows for the identification of best practices and emerging trends that can inform policies and strategies in higher education management.

#### 6. Study Selection and Data Summary Table

A total of 50 articles were identified during the initial search, and after applying the inclusion and exclusion criteria, 30 articles were selected for full-text analysis. The following table summarizes the data extracted from these studies.

Study	Methodology	Key Findings	Challenges Identified	Suggested Strategies/Models
Kanyinga et al. (2020)	Quantitative	Highlighted the importance of process optimization in public service delivery.	Budget constraints, lack of staff training.	Streamlined administrative processes, use of technology.
Patel et al. (2022)	Qualitative	Focused on student engagement through digital platforms.	Technology integration challenges.	Implementation of mobile apps for better service access.
Brown & Hughes (2020)	Mixed methods	Emphasized Total Quality Management (TQM) in improving service delivery.	Resistance to change from faculty and staff.	Continuous improvement and stakeholder involvement.
Smith (2021)	Qualitative	Explored leadership models in higher education.	Lack of collaborative leadership in universities.	Collaborative leadership models for service management.
Ramirez & Almeida (2023)	Quantitative	Identified the role of digital transformation in university administration.	High initial investment in technology.	Leveraging digital tools to automate administrative tasks.

This table summarizes the key methodologies, findings, challenges, and strategies identified in the selected studies, providing a snapshot of the current literature on public service management in higher education.

## FINDINGS AND DISCUSSION

The systematic literature review (SLR) on public service management in higher education revealed several key findings regarding the strategies, challenges, and models employed by higher education institutions to enhance service delivery and governance. Through an in-depth analysis of the 25 studies selected, we identified several overarching themes: leadership and governance models, service efficiency and quality, technology integration, and student-centered services. These themes represent the focal points of public service management within higher education, highlighting both the successes and challenges faced by institutions globally.

### 1. Leadership and Governance Models

A dominant theme emerging from the literature was the role of leadership and governance in shaping public service management in higher education institutions. Several studies emphasized that effective leadership is crucial for the successful management of services and improving overall institutional performance. Transformational leadership, which fosters innovation and motivates faculty and staff, was found to be particularly effective in managing change and improving public service delivery (Smith, 2021; Brown & Hughes, 2020). Conversely, authoritarian leadership models

were often associated with higher levels of bureaucracy and resistance to change, hindering the efficiency of public service management (Patel et al., 2022).

Furthermore, effective governance frameworks were identified as essential in ensuring transparency, accountability, and the proper allocation of resources. Institutions that adopted decentralized governance structures, empowering departments and faculties to make decisions, reported higher satisfaction levels among students and staff (Kanyinga et al., 2020). This participatory approach to governance helps increase service responsiveness and fosters a more engaged academic environment.

However, challenges were also highlighted in the literature regarding leadership and governance. Resistance from faculty and administrative staff to adopt new governance models, particularly in large, hierarchical institutions, was a recurring issue (Smith, 2021). The challenge of aligning leadership approaches with the evolving needs of the university and ensuring effective communication between leadership and the rest of the institution was also reported (Patel et al., 2022).

## 2. Service Efficiency and Quality

Another key finding from the review is the importance of enhancing service efficiency and quality in the management of public services within universities. Several studies pointed to the implementation of Total Quality Management (TQM) principles and continuous improvement strategies as effective ways to increase service quality in student services, administrative functions, and academic support (Brown & Hughes, 2020). Institutions employing TQM focused on continual assessment, feedback mechanisms, and student engagement in shaping service delivery, which led to higher levels of service satisfaction.

However, resource constraints were consistently identified as one of the primary challenges in improving service efficiency and quality. Budget limitations, outdated infrastructure, and insufficient staff training were cited as barriers to achieving optimal service outcomes (Kanyinga et al., 2020). In many cases, universities were unable to fully implement quality improvement initiatives due to financial and staffing constraints. To overcome these challenges, several studies suggested the need for external partnerships, such as public-private partnerships (PPPs), to provide additional resources and expertise (Ramirez & Almeida, 2023).

Student satisfaction and engagement were also critical factors influencing service quality. Higher education institutions that prioritized student feedback, conducted regular surveys, and acted on student concerns reported better outcomes in service delivery. A notable finding was that student-centered approaches, which emphasize flexibility, responsiveness, and the alignment of services with student needs, significantly contributed to higher service quality ratings (Smith, 2021).

## 3. Technology Integration

The integration of **technology** was a recurring theme in the literature, with many studies highlighting the role of digital tools and platforms in improving service delivery in higher education. The use of **learning management systems (LMS)**, **mobile apps**, and **cloud-based administrative tools** has allowed universities to automate processes, improve communication, and increase the accessibility of student services (Ramirez & Almeida, 2023). This technological shift has not only enhanced efficiency but has also led to better data management and decision-making, supporting improved administrative services.

However, **technology adoption challenges** were also identified in the studies. One of the most significant barriers was the **high initial investment costs** associated with implementing and maintaining advanced technological systems (Brown & Hughes, 2020). Additionally, there were concerns about the digital divide, as students from disadvantaged backgrounds may not have access to the necessary technological resources, potentially exacerbating inequalities in service access (Patel et al., 2022).

Despite these challenges, institutions that successfully integrated technology into their administrative processes reported a substantial improvement in service delivery, particularly in terms of speed and accessibility. The implementation of self-service portals and online registration systems reduced administrative burdens and allowed students to access services at their convenience (Ramirez & Almeida, 2023).

#### 4. Student-Centered Services

A fourth major theme was the increasing focus on **student-centered services** as an essential component of public service management in higher education. The literature revealed that universities that prioritized the **student experience** in designing their services saw a direct positive impact on student satisfaction and retention. Models of **personalized support**, such as dedicated academic advisors and tailored student services, were cited as particularly effective in meeting individual student needs (Patel et al., 2022).

In particular, the emphasis on **student engagement** through digital platforms has gained traction. Online portals that allow students to book appointments, access academic resources, and participate in university activities have become increasingly important in fostering a student-friendly environment. Furthermore, the integration of **peer-to-peer support networks** has been shown to enhance student satisfaction, as it provides students with social and academic support in a more informal setting (Smith, 2021).

However, balancing **student needs** with institutional limitations remains a challenge. While student-centered approaches have been shown to improve service delivery, many universities struggle to provide the resources necessary to support a fully personalized service model. Additionally, ensuring that services remain equitable and accessible to all students, regardless of background or socio-economic status, continues to be a concern (Kanyinga et al., 2020).

The findings from this systematic literature review indicate that higher education institutions are increasingly adopting innovative leadership models, technological solutions, and student-centered approaches to improve public service management. However, challenges such as resource constraints, technological barriers, and resistance to change remain persistent. Addressing these challenges through strategic leadership, technology integration, and increased investment in student services will be crucial for improving service delivery and institutional effectiveness in the future. Additionally, further research is needed to explore the long-term impacts of these strategies and to identify best practices that can be scaled across different higher education contexts.

This *systematic literature review* (SLR) offers valuable insights into the state of public service management in higher education, particularly as institutions strive to meet the increasing demand for quality, efficiency, and student-centered services. While many positive outcomes have been associated with the strategies employed by universities, the findings of this review also shed light on several challenges that hinder the full realization of these goals. In this discussion, we will examine these key findings in detail and provide an analysis of their implications for the future of higher education service management.

#### 1. The Role of Leadership in Shaping Public Service Management

One of the most significant findings from this review is the critical role that leadership plays in shaping public service management in higher education. **Transformational leadership** was identified as the most effective model, with leaders who encourage innovation, collaboration, and shared vision. This finding aligns with existing research that suggests transformational leadership fosters organizational change, promotes a positive work environment, and drives institutional performance (Avolio & Bass, 2004). Universities led by transformational leaders were able to implement changes more smoothly and respond more effectively to the evolving needs of students and staff. In contrast, institutions with more authoritarian leadership structures struggled to innovate and adapt to challenges, such as increasing demands for flexible learning and improved student services (Patel et al., 2022).

The findings suggest that a more collaborative and empowering leadership style is needed to navigate the complex dynamics of higher education institutions. For universities to effectively address the demands for improved services, leaders must foster a culture of open communication, where staff and students are encouraged to provide input and actively participate in decision-making processes (Kanyinga et al., 2020). Moreover, universities must invest in leadership development programs to equip leaders with the skills necessary to manage change, promote efficiency, and foster inclusivity within the institutional culture.

## 2. Service Quality and Efficiency: Balancing Resources and Demands

Another key area discussed in the findings is the challenge of improving service quality and efficiency in higher education. The literature reveals that many institutions have embraced Total Quality Management (TQM) and continuous improvement models to enhance the efficiency and quality of their services (Brown & Hughes, 2020). While these models have proven effective in some cases, the challenge remains for many universities to implement these frameworks on a larger scale, especially in the face of resource constraints. For instance, budget limitations, outdated infrastructure, and understaffing were recurrent themes across the literature, indicating that financial pressures continue to limit the ability of universities to deliver optimal services.

As many studies have suggested, institutions are often forced to prioritize essential academic services over student support services due to budget constraints. This dynamic exacerbates the gap in service delivery, especially for students who require extensive academic or personal support. Universities must therefore consider adopting innovative resource management strategies that enable them to allocate resources more efficiently and prioritize initiatives that directly impact student experience and service quality. For instance, leveraging public-private partnerships (PPPs), securing alternative funding sources, or increasing collaboration with external stakeholders could offer universities the resources necessary to improve service delivery (Ramirez & Almeida, 2023).

Moreover, a critical element in improving service efficiency and quality lies in establishing clear metrics and feedback systems. By continually assessing student satisfaction and institutional performance, universities can make data-driven decisions to refine services. However, this requires commitment to a culture of continuous improvement and accountability at all levels of the institution, ensuring that staff are motivated and equipped to consistently meet service expectations (Smith, 2021).

## 3. Technology Integration: Opportunities and Barriers

The findings from the review also emphasize the growing importance of technology integration in improving service delivery within higher education. The introduction of digital tools and platforms—such as learning management systems (LMS), student portals, and mobile applications—has significantly enhanced the accessibility, efficiency, and effectiveness of academic and administrative services (Ramirez & Almeida, 2023). The adoption of these technologies has enabled institutions to reduce administrative burdens, automate processes, and provide more timely services, thus improving student satisfaction and institutional performance.

However, the findings also reveal that technological adoption is not without its challenges. The high upfront costs of implementing and maintaining digital infrastructure remain a significant barrier, particularly for institutions with limited budgets. The literature suggests that smaller universities or those in developing countries may face difficulties in accessing the resources needed for large-scale technological transformations (Patel et al., 2022). Additionally, the digital divide—the gap between students who have access to advanced technology and those who do not—remains a critical issue, with disadvantaged students often facing difficulties in accessing online services and digital learning tools (Ramirez & Almeida, 2023).

To overcome these barriers, universities must carefully plan their technology strategies, focusing on solutions that are both cost-effective and equitable. This could involve exploring cloud-based solutions and open-source platforms that offer flexible, affordable alternatives to traditional technologies. Universities must also invest in digital literacy programs to ensure that all students, regardless of socio-economic background, can fully benefit from these technological advancements.

## 4. Student-Centered Services: A Path Toward Personalized Support

The theme of student-centered services was perhaps the most prominently featured in the literature, with many studies suggesting that a shift toward personalized services has the potential to significantly enhance the student experience. By offering tailored academic support, personalized counseling services, and peer-to-peer networks, universities can better meet the diverse needs of their student populations. The review underscores that services designed with the student in mind, focusing on flexibility, responsiveness, and accessibility, are more likely to foster higher levels of student engagement and satisfaction (Smith, 2021).

Despite the benefits of student-centered services, the review also highlights the challenge of balancing individualized support with institutional capacity. The literature suggests that many universities face difficulties in providing personalized services to all students due to limited staff

resources or infrastructure constraints. Moreover, the need for personalized services often increases the administrative burden on staff, requiring additional training, support, and planning.

To effectively implement student-centered services, universities must ensure that their service models are both scalable and sustainable. This can be achieved through the use of technology-enabled services such as online advising systems, automated scheduling tools, and personalized learning pathways that allow institutions to provide individualized support to a larger number of students without overburdening staff resources. Furthermore, universities must prioritize equity in their student services, ensuring that all students, regardless of background or socio-economic status, have access to the support they need to succeed.

## CONCLUSION

The findings from this systematic literature review on public service management in higher education highlight several key themes that shape the efficiency and quality of service delivery. Leadership and governance models emerged as a critical factor, with transformational leadership shown to foster positive institutional changes, while authoritarian leadership tended to hinder innovation and adaptability. Effective governance frameworks, particularly decentralized models, also contributed to higher satisfaction levels among both students and staff, though challenges such as resistance to change and alignment of leadership with institutional needs were identified. These findings suggest that universities must embrace collaborative, participatory leadership to meet evolving demands and improve service delivery.

The review also emphasized the importance of improving service efficiency and quality through strategies like Total Quality Management (TQM) and continuous improvement. However, resource constraints such as budget limitations and inadequate infrastructure continue to be significant barriers, making it challenging for institutions to provide optimal services. The integration of technology in service delivery was identified as a major opportunity to enhance efficiency, with digital tools like learning management systems and mobile apps improving accessibility and communication. Despite this, the high initial costs and the digital divide remain significant obstacles that need to be addressed to ensure equitable access to services for all students.

Lastly, a student-centered approach was found to be vital in enhancing the student experience, with personalized services leading to increased satisfaction and retention. However, balancing these personalized services with institutional limitations, such as staff capacity and funding, presents a challenge. To overcome this, universities must adopt scalable and sustainable service models, leveraging technology to deliver personalized support efficiently. Additionally, a focus on equity in service provision is crucial to ensure that all students, regardless of background, have access to the support they need to succeed. Addressing these challenges through strategic leadership, technology integration, and a commitment to student-centered services will be essential for improving public service management in higher education.

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