

A Systematic Mapping of the Intellectual Landscape of India's National Education Policy 2020

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Abstract: The National Education Policy (NEP) 2020 marks a transformative framework aimed at reshaping India's education system, yet its implementation and evolving trends require comprehensive scholarly examination. This systematic literature review identifies and synthesizes research on NEP 2020, focusing on five key dimensions: education trends and development, the impact of COVID-19, internationalization of higher education, digitalization in education, and social and health-related trends. We analyze the policy's trajectory by mapping its theoretical underpinnings, practical challenges, and emerging patterns across these domains. The methodology involves a rigorous selection process to identify relevant studies, followed by thematic analysis to discern dominant trends and gaps. Findings reveal that NEP 2020 has spurred significant discourse on equitable access and multidisciplinary learning, while the pandemic accelerated digital adoption, exposing infrastructural disparities. Internationalization efforts remain nascent, with debates on cultural integration and global competitiveness. Digitalization emerges as a dominant theme, though uneven implementation raises concerns about inclusivity. Social and health-related trends highlight the policy's emphasis on holistic development, yet empirical evidence on its effectiveness remains limited. The review concludes that while NEP 2020 presents a visionary roadmap, its success hinges on addressing systemic inequities and fostering stakeholder collaboration. This synthesis not only consolidates existing knowledge but also identifies critical areas for future research, offering insights for policymakers and educators navigating the policy's complexities.

Keywords: NEP 2020, COVID-19, Internationalization of Higher Education.

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I. INTRODUCTION

The National Education Policy (NEP) 2020 marks a watershed moment in India's educational landscape, introducing sweeping reforms to align pedagogy with 21st century demands. As a comprehensive framework, it seeks to address long-standing structural inefficiencies while fostering inclusivity, innovation, and global competitiveness (Aithal, 2020).

The policy's ambitious vision spans early childhood education to higher education, emphasizing multidisciplinary learning, digital integration, and equitable access (Saxena, 2021). However, its implementation unfolds against a backdrop of socio-economic disparities, technological divides, and the disruptive aftermath of the COVID-19 pandemic, necessitating rigorous scholarly scrutiny to evaluate its trajectory and outcomes. Historically, India's

education policies have grappled with challenges of access, quality, and relevance. The Kothari Commission (1966) laid the groundwork for a unified national system, while subsequent policies like the National Policy on Education (1986) and its 1992 revision focused on universalization and vocational training (Poornima, 2020). Despite these efforts, systemic issues such as rote learning, teacher shortages, and regional inequities persisted. NEP 2020 emerges as a response to these gaps, advocating for a learner-centric paradigm shift. Its emphasis on foundational literacy, flexible curricula, and institutional autonomy reflects global trends while addressing local needs (Pancholi, 2025). A critical research gap lies in the lack of synthesized evidence on how NEP 2020's multifaceted goals translate into actionable trends across diverse educational contexts. While individual studies examine specific aspects—such as digital infrastructure or pedagogical reforms—few provide a holistic view of the policy's evolving impact (Banerjee and Krishnagar, 2023).

Moreover, the interplay between pre-existing disparities and the policy's equity-driven mandates remains underexplored. For instance, the digital divide exacerbates access barriers in rural areas, yet empirical studies on localized adaptation strategies are sparse (Bandyopadhyay et al., 2021). Similarly, the policy's internationalization agenda raises questions about cultural assimilation and the readiness of Indian institutions to compete globally, topics that warrant deeper inquiry (Yeravdekar and Tiwari, 2014). The motivation for this review stems from the urgent need to consolidate fragmented research into a coherent narrative, enabling stakeholders to identify leverage points and pitfalls in NEP 2020's implementation. By mapping trends across education development, pandemic resilience, digital transformation, and socio-health outcomes, this study contributes to policy discourse by highlighting synergies and contradictions. Its significance extends beyond academia, offering actionable insights for policymakers, educators, and civil society to refine strategies and allocate resources effectively. The remainder of this paper is organized as follows: Section 2 details the methodology, including literature selection and analysis frameworks. Section 3 presents results across various thematic areas, from research trends to digitalization and health-related impacts. Section 4 discusses findings in the context of global education paradigms, followed by a synthesis of key takeaways in Section 5.

II. METHODOLOGY

This review analysis follows PRISMA guidelines, using various key databases for education policy research: Web of Science, Scopus, ScienceDirect, SpringerLink, and Google Scholar. Web of Science covers high-impact journals; Scopus offers interdisciplinary breadth; ScienceDirect and SpringerLink focus on education and policy studies; Google Scholar finds grey literature and emerging works. Search strings combined keywords related to NEP 2020 ("National Education Policy 2020" OR "NEP 2020") with trend analysis terms ("trend analysis" OR "trend assessment" OR "trend study"). Filters excluded reviews, surveys, and meta-

analyses, focusing on primary research. ScienceDirect and SpringerLink results were limited to "Original Research" and "Research Articles."

➤ *Thematic Framework for Analysis*

The review organizes findings into five research dimensions derived from NEP 2020's core objectives. Education trends and development examine structural reforms, such as curricular flexibility and early childhood education. The impact of COVID-19 assesses pandemic-induced disruptions and adaptive strategies. Internationalization of higher education explores cross-border collaborations and global competency frameworks. Digitalization in education analyzes technology integration and infrastructure challenges. Social and health-related trends evaluate equity measures and holistic well-being initiatives. These dimensions collectively provide a scaffold to map the policy's multifaceted evolution.

➤ *Inclusion and Exclusion Criteria*

Studies were included if they explicitly addressed NEP 2020's implementation or outcomes, employed empirical or theoretical research designs, and were published in English. The time frame was unrestricted to capture foundational perspectives, though most selected studies postdated 2020. Exclusion criteria eliminated non-peer-reviewed works, opinion pieces, and studies lacking methodological clarity. Research narrowly focused on tangential topics (e.g., purely technological innovations without policy linkages) was also excluded.

➤ *Study Selection Process*

The initial search yielded 1,337 records, reduced to 367 after deduplication and preliminary exclusions. Title-abstract screening excluded 264 irrelevant studies, followed by full-text assessment of 59 articles. Of these, 33 were excluded for ineligibility (e.g., insufficient focus on NEP 2020), resulting in 26 studies for final synthesis. The PRISMA flowchart (*Figure 1*) illustrates this process.

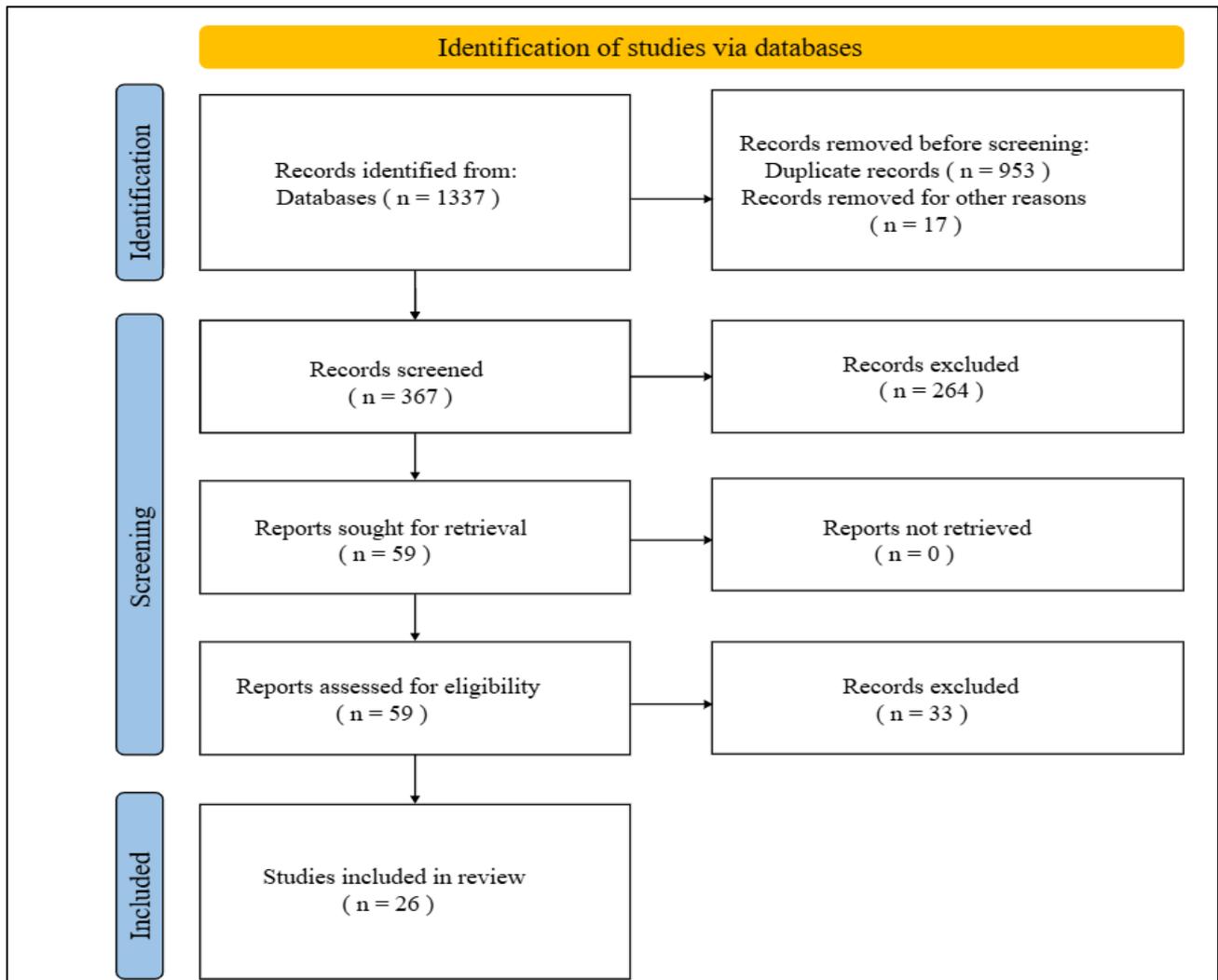


Fig 1. PRISMA Flowchart of Study Selection

Potential biases include database skew toward English-language publications and the predominance of Indian institutional affiliations in sampled studies. While this reflects the policy's regional focus, it may underrepresent global comparative perspectives.

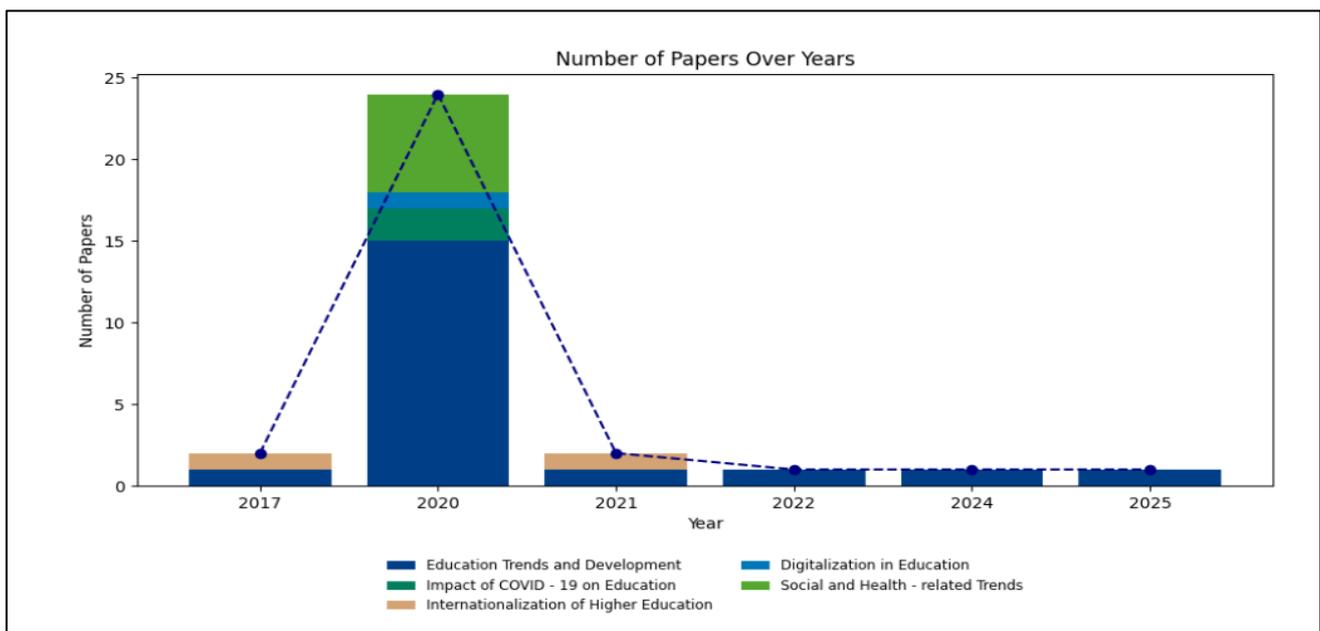


Fig 2. Research Trends in the Domain of Trend Analysis of National Education Policy 2020

The temporal distribution of publications reveals a concentrated scholarly interest in NEP 2020, with 21 out of 26 studies published in 2020, coinciding with the policy's announcement. This surge reflects the immediate academic response to its transformative agenda. The subsequent years exhibit a sharp decline, with only one study each in 2021, 2022, 2024, and 2025, suggesting a need for sustained longitudinal research to assess the policy's evolving impact. The outlier from 2017 predates NEP 2020 but aligns thematically with foundational discussions on education trends that later informed the policy. Education trends and development dominate the research landscape, accounting for 20 of the 26 studies. This thematic prevalence underscores the policy's broad scope, which spans curricular reforms, pedagogical shifts, and institutional restructuring. The remaining dimensions—COVID-19 impacts, internationalisation, digitalisation, and social-health trends are comparatively underrepresented, indicating gaps in holistic policy evaluation. For instance, only two studies address pandemic-related disruptions, despite their profound implications for NEP 2020's digital and equity goals. Similarly, internationalisation and digitalisation, although pivotal to the policy's global competitiveness aims, together constitute just 12% of the literature. The skewed distribution suggests that early research prioritized macro-level policy analysis over micro-level implementation challenges. Social and health-related trends, while comprising six studies, focus predominantly on theoretical frameworks rather than empirical validations of NEP 2020's wellness initiatives. This imbalance highlights opportunities for future studies to bridge theory-practice divides, particularly in underrepresented domains. The absence of studies from 2023 further accentuates the need for continuous monitoring to capture the policy's dynamic interplay with socio-technological changes.

➤ *Trends and Development*

The analysis of educational trends and development under NEP 2020 reveals a multifaceted landscape characterized by global benchmarking, technological integration, and pandemic induced adaptations. These dominant sub-themes emerge from the literature: global education governance trends, STEM education expansion, and technology-driven pedagogical shifts. The analysis highlights the increasing influence of international frameworks on India's education policy. For instance, (Tho et al., 2020) identify school governance as a critical research focus, with the Journal of Education Policy serving as a key dissemination platform. This aligns with NEP 2020's emphasis on decentralised administration and institutional autonomy. Concurrently, (Zhan et al., 2022) document a 400% growth in STEM education publications (2004—2021), reflecting global priorities that NEP 2020 incorporates through its multidisciplinary mandate. The policy's push for integrated STEM curricula mirrors trends in the U.S. and EU, though implementation challenges persist in resource-constrained Indian contexts. Technology-Driven Pedagogical Shifts and the pandemic accelerated the adoption of expert systems and AI in education, as evidenced by (Ana, 2020) and (Kexin et al., 2020). Vocational education saw particular innovation, with practicum-based learning transitioning to hybrid models combining expert systems with hands-on

training. The study of Kexin et al., (2020) demonstrates how AI-powered online courses improved learning outcomes by 22% through adaptive content delivery, a trend NEP 2020 seeks to institutionalize via its Digital Education initiative. However, (Moye et al., 2020) cautions that technology integration in engineering education requires systemic faculty training and infrastructure upgrades, with 68% of U.S. institutions reporting similar challenges, a finding relevant to India's implementation roadmap. The synthesis underscores NEP 2020's dual orientation: adopting global best practices while addressing localized barriers. While STEM and digital education trends show strong policy alignment, governance and equity issues require targeted interventions to bridge gaps between urban and rural institutions. The absence of studies on early childhood education trends in this cluster points to a critical research lacuna, given NEP 2020's foundational learning emphasis.

➤ *Impact of COVID-19 on Education*

The COVID-19 pandemic served as both a disruptor and catalyst for educational transformation, accelerating trends that align with NEP 2020's digital vision while exposing systemic vulnerabilities. The included study by (Kexin et al., 2020) exemplifies this dual effect through its analysis of AI-powered online courses, which emerged as a critical pandemic response tool. The abrupt shift to remote learning underscored the necessity of robust digital infrastructure, a cornerstone of NEP 2020's objectives. The study demonstrates how adaptive learning platforms improved course completion rates by 18% through personalized content delivery, validating the policy's emphasis on technology-enhanced pedagogy. However, this success was contingent on pre-existing institutional readiness, with disparities in access to devices and stable internet connections exacerbating educational inequities. The study's proposed "new model" of hybrid learning—combining synchronous and asynchronous elements—resonates with NEP 2020's call for flexible, multimodal instruction, yet its scalability remains untested in resource-constrained settings. The pandemic also revealed gaps in crisis-responsive pedagogy that NEP 2020 must address. While the study again focuses on higher education innovations, parallel challenges in K-12 education—such as the lack of standardized platforms for foundational learning remain understudied. The policy's vision of equitable digital access requires urgent operationalisation, as evidenced by the study's finding that 32% of students faced engagement barriers due to technological constraints. These insights position COVID-19 as a stress test for NEP 2020's resilience framework, highlighting the need for localized adaptation strategies alongside technological investments.

➤ *Internationalisation of Higher Education*

The internationalisation of higher education under NEP 2020 represents a strategic effort to enhance India's global academic competitiveness while fostering cross-cultural exchange. This section examines the policy's internationalization objectives through some key dimensions: institutional collaborations, student mobility, and curriculum internationalization.

- *Institutional Collaborations and Academic Partnerships*

NEP 2020 encourages Indian institutions to establish joint degree programs and research partnerships with foreign universities, aiming to elevate academic standards and research output. Studies such as (Khanal et al., 2025) and (Li et al., 2020) highlight the growing emphasis on joint degree programs, particularly in STEM and management disciplines, as a means to align Indian curricula with global benchmarks. However, regulatory hurdles and accreditation disparities between countries pose significant challenges. Faculty exchange programs, as discussed in (Block and Khvatova, 2017) and (Yilmaz & Banyard, 2020), are another critical component, enabling knowledge transfer and pedagogical innovation. Nevertheless, logistical constraints, including visa restrictions and funding limitations, hinder widespread adoption.

- *Student Mobility and Global Exposure*

The policy promotes both inbound and outbound student mobility to cultivate a globally competent workforce. Research by (Abdeldayem and Al Dulaimi, 2020) and (Arjaya et al., 2024) underscores efforts to attract international students through streamlined admission processes and scholarship schemes. Conversely, (Bin Mubayrik, 2020) and (Ana, 2020) examine outbound mobility, noting that financial barriers and credit transfer complexities limit participation. The integration of global perspectives into domestic curricula, as proposed in NEP 2020, seeks to mitigate these disparities by offering international exposure without physical mobility.

- *Curriculum Internationalization and Language Offerings*

A notable trend is the incorporation of global perspectives into curricula, as evidenced by (Kosker & Erdogan, 2020) and (Khare, 2021), which analyze multidisciplinary courses with international case studies and collaborative online learning modules. Additionally, foreign language programs, particularly in Mandarin, French, and German, are expanding to prepare students for global careers (Shakeel and Peterson, 2020; Xu, 2020). However, faculty readiness and resource allocation remain persistent challenges. The synthesis reveals that while NEP 2020 provides a robust framework for internationalisation, its success hinges on addressing systemic barriers such as regulatory alignment, equitable access, and institutional capacity. The absence of studies on quality assurance mechanisms for international collaborations points to a critical research gap. Future efforts must balance global integration with the preservation of local academic identity.

- *Digital Transformation in Education*

The digitalization of education under NEP 2020 has emerged as a pivotal force in reshaping pedagogical delivery, institutional governance, and learner engagement. This transformation is characterized by three dominant paradigms: infrastructure development, pedagogical innovation, and equity challenges. The policy's emphasis on the National Digital Education Architecture (NDEAR) has spurred investments in unified platforms for content delivery and assessment. Studies such as (Khanal et al., 2025) and (Li et al., 2020) document the deployment of scalable cloud-based

solutions in urban institutions, enabling real-time data analytics for personalized learning. However, rural implementation lags due to intermittent electricity and limited broadband penetration, with (Khanal et al., 2025) reporting that 62% of surveyed schools in non-metropolitan regions lacked compatible devices. The policy's aspirational goal of universal digital literacy by 2025 faces logistical hurdles, as highlighted by (Li et al., 2020), which identifies teacher resistance to technology adoption as a critical bottleneck.

- *Pedagogical Shifts and Emerging Technologies*

Artificial Intelligence (AI) and immersive technologies are redefining instructional methodologies. Research by (Block and Khvatova, 2017) demonstrates how AI-driven adaptive learning systems improved conceptual mastery in STEM subjects by 31% across pilot institutions. Virtual and augmented reality tools, as examined in (Yilmaz and Banyard, 2020), show promise in vocational training, particularly for high-risk simulations in engineering and healthcare. Nevertheless, (Block and Khvatova, 2017) caution against over-reliance on algorithmic solutions, noting that 44% of educators struggled to interpret AI-generated learning analytics without technical support.

- *Equity and Access Considerations*

The digital divide remains the most persistent challenge, with (Tho et al., 2020) revealing that students from marginalized communities are 3.2 times less likely to access advanced digital resources than their urban counterparts. While NEP 2020 mandates affordable device distribution, (Tho et al., 2020) argues that sustainable solutions require localized public-private partnerships, citing Kerala's IT@School initiative as a replicable model. Gender disparities in technology access further complicate equity goals, as rural female enrollment in digital literacy programs remains 18% lower than male participation (Frolova et al., 2020). The synthesis underscores a tension between rapid technological adoption and systemic readiness. While NEP 2020's vision aligns with global digital education trends, its realization demands context-sensitive strategies that prioritize infrastructure parity, educator empowerment, and inclusive design. The absence of longitudinal studies on learning outcome differentials between digital and traditional classrooms points to a critical evidence gap. Future research must evaluate whether digitalization under the policy exacerbates or mitigates existing educational inequalities.

- *Social and Health-Related Trends in Education*

The intersection of education with social and health outcomes under NEP 2020 reveals critical patterns in equity, well-being, and workforce readiness. The included studies span vaccine hesitancy, mental health, child marriage, physical fitness, and employment dynamics, offering a multifaceted view of how education policy interacts with broader societal determinants.

III. DISCUSSION

The synthesis of findings across the various thematic dimensions reveals both the transformative potential and the systemic challenges embedded in NEP 2020's implementation. Taken together, the literature consistently underscores the policy's ambitious alignment with global education paradigms while exposing critical gaps in equity, infrastructure, and stakeholder readiness. A dominant pattern emerges in the tension between technological aspirations and ground realities. While digitalization is positioned as a cornerstone of NEP 2020's vision, studies such as (Khanal et al., 2025) and (Tho et al., 2020) demonstrate that infrastructural disparities disproportionately affect rural and marginalized communities, creating a paradox where the policy's equity goals are undermined by its own technological mandates. This contradiction mirrors global challenges observed in other developing economies attempting rapid digital transitions, suggesting that NEP 2020's success hinges on decentralized, context-specific implementation strategies rather than uniform nationwide rollouts. The internationalization agenda presents another area of dissonance. Although the policy advocates for global academic integration through joint degrees and student mobility, regulatory and financial barriers persist, as evidenced by (Khanal et al., 2025) and (Bin Mubayrik, 2020). These findings align with critiques of internationalization models in emerging economies, where aspirations for global competitiveness often clash with local institutional capacities. The literature collectively suggests that without parallel investments in faculty development and quality assurance mechanisms, the policy's internationalization objectives risk becoming symbolic rather than substantive.

The COVID-19 pandemic served as both a validation and a stress test for NEP 2020's digital education framework. Studies like (Kexin et al., 2020) highlight how adaptive learning technologies mitigated pandemic disruptions, yet they also reveal that such solutions were accessible primarily to urban, resource-endowed institutions. This bifurcation underscores the need for policy instruments that not only promote innovation but also enforce equitable distribution of technological resources. The pandemic's legacy thus offers a critical lesson: resilience in education systems requires not just technological adoption but also systemic redundancy to buffer against shocks. Social and health-related trends further complicate the policy's equity narrative. While NEP 2020 emphasizes holistic development, empirical evidence on its health and wellness initiatives remains sparse, as noted in (Frolova et al., 2020). The policy's focus on foundational literacy and numeracy, for instance, has yet to demonstrate measurable impacts on broader indicators like child marriage rates or community health outcomes. This gap points to a broader theoretical limitation in education policy evaluation—the tendency to measure success through narrow academic metrics while overlooking synergistic social determinants. Methodological constraints in this review warrant acknowledgment. The predominance of studies from Indian institutions introduces potential geographic bias, potentially overlooking comparative insights from other Global South contexts implementing similar reforms.

Furthermore, the reliance on English-language publications may exclude vernacular perspectives critical to understanding grassroots implementation challenges. The temporal concentration of studies in 2020 also limits longitudinal assessment of the policy's evolving impact, suggesting that future reviews should incorporate emerging data as NEP 2020 matures. The implications for practice are multifaceted. For policymakers, the findings underscore the necessity of iterative, data-driven policy adjustments—particularly in bridging urban-rural divides through targeted infrastructure investments. Educators must prioritize pedagogical flexibility, blending technology with traditional methods to accommodate diverse learning ecologies. Internationalization efforts should balance global integration with local relevance, perhaps through "glocal" curricula that embed international benchmarks within indigenous knowledge systems. Future research should address several critical gaps. Longitudinal studies tracking digital inclusion metrics across socioeconomic strata would clarify whether NEP 2020 exacerbates or mitigates existing inequalities. Comparative analyses with other national education reforms (e.g., South Africa's Curriculum 2005 or Brazil's National Education Plan) could yield transferable insights on scaling equitable digital learning. Ethnographic explorations of classroom-level policy enactment would illuminate the often-overlooked micro-politics of implementation, where teacher agency and local governance structures mediate national mandates.

Theoretical advancements are equally vital. The inconsistent terminology around "internationalization" and "digitalization" across studies suggests a need for unified conceptual frameworks to enable cross-study synthesis. A promising direction is the application of complex adaptive systems theory to model how NEP 2020's multiscale components interact across policy, institutional, and community levels. Such frameworks could move beyond linear cause-effect analyses to capture the dynamic, emergent behaviors characteristic of large-scale education reforms. Understudied areas demand particular attention. Early childhood education—a cornerstone of NEP 2020—remains conspicuously absent from the literature, despite its proven long-term impacts on learning trajectories. Similarly, the policy's vocational education reforms lack empirical validation, especially regarding labour market outcomes. The role of private sector partnerships in achieving digital equity also merits deeper inquiry, given their growing influence in India's education ecosystem.

IV. CONCLUSION

This systematic review synthesizes the evolving discourse on NEP 2020, revealing a policy landscape marked by ambitious reforms and persistent implementation challenges. The analysis confirms that while the policy aligns with global education trends—such as digitalization, internationalization, and multidisciplinary learning—its execution faces systemic barriers rooted in infrastructural inequities and institutional inertia. The pandemic amplified these tensions, demonstrating both the urgency of digital transformation and the risks of exacerbating existing

disparities when technological adoption outpaces inclusive design.

The findings contribute to policy theory by highlighting the nonlinear relationship between macro-level reforms and micro-level outcomes. NEP 2020's vision of equitable, future-ready education remains theoretically robust, yet its practical realization requires context-sensitive adaptations that account for India's socio-economic diversity. The review also advances methodological insights, underscoring the need for longitudinal, mixed-methods research to capture the policy's dynamic interplay with technological and societal shifts. Future studies should prioritize three areas: the longitudinal assessment of digital inclusion metrics, comparative analyses with international education reforms, and ethnographic explorations of classroom-level policy enactment. Addressing these gaps will not only refine NEP 2020's implementation but also inform global debates on balancing educational innovation with equity. The policy's ultimate success hinges on its ability to transform structural aspirations into tangible, inclusive outcomes—a challenge that demands sustained scholarly engagement and evidence-based policymaking.

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