

Regional Disparities in the Implementation of NEP 2020 in Higher Education: A Comparative Analysis of Indian States

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Abstract: *The National Education Policy (NEP) 2020 offered radical reforms to India's higher education sector, with the goal of promoting transdisciplinary learning, digital integration, and institutional autonomy. However, its implementation varies greatly amongst governments due to disparities in financial resources, infrastructure, policy execution, and governance systems. This study explores regional variations in NEP 2020 implementation in higher education using secondary data from government papers, academic studies, and institutional surveys. The research focuses on important differences in budget distribution, digital accessibility, faculty development, and policy adoption among states. The findings shed light on the problems that different regions confront and propose suggestions for promoting more consistent implementation of NEP 2020 across India.*

Keywords: Policy Implementation, Indian States, Digital Learning, Institutional Autonomy

I. INTRODUCTION

The National Education Policy (NEP) 2020 is a historic reform that aims to revolutionize India's higher education system by encouraging interdisciplinary learning, research-driven education, and digital inclusion. It envisions a higher education framework that is flexible, inclusive, and globally competitive, with an emphasis on skill-based learning, institutional autonomy, and educational technology. NEP 2020 aims to integrate India's higher education framework with worldwide norms through important reforms such as the Academic Bank of Credits (ABC), multidisciplinary universities, and the National Research Foundation (NRF). However, the effectiveness of these efforts is strongly dependent on effective state-level execution.

While NEP 2020 establishes a single policy framework, implementation is mostly decentralized, allowing each states to tailor reforms to their educational priorities, budgetary resources, and administrative capacities. This decentralized strategy has resulted in considerable regional differences in implementation, with some states making rapid progress while others face financial, structural, and regulatory problems. Variations in government financing, digital infrastructure, faculty training programs, and state-specific regulatory regimes all have an impact on the size of these differences. As a result, whereas NEP 2020 proposes an egalitarian and inclusive higher education system, its actual impact varies between states in India.

One of the main problems about adopting NEP 2020 is financing discrepancies. While wealthier states such as Maharashtra, Karnataka, and Tamil Nadu have managed to

Funding discrepancies are one of the main issues with adopting NEP 2020. Economically weaker governments have trouble raising money for faculty hiring, infrastructural improvements, and digital transformation, while wealthier states like Maharashtra, Karnataka, and Tamil Nadu have been able to commit substantial resources for changes in higher education. Due to government financial limitations, implementation frequently proceeds unevenly, with some states finding it difficult to reach the policy's lofty goals.



Additionally, NEP 2020's vision of technology-driven education heavily relies on digital infrastructure. To improve accessibility, the policy promotes online courses, digital learning, and the use of educational technology (EdTech) platforms. States that have restricted access to digital devices and poor internet connectivity, however, will find it difficult to execute these reforms. Students' capacity to engage in digital learning initiatives is hampered by the lack of high-speed internet, especially in rural locations. Inequalities in educational possibilities are made worse by the digital divide that exists between urban and rural areas.

Faculty training and preparedness are another important factor influencing the execution of NEP 2020. Faculty members must embrace new pedagogical approaches, incorporate technology into their instruction, and support flexible learning models in light of the shift towards multidisciplinary education and research-based learning. States differ in their faculty development initiatives, meanwhile, with some areas making significant investments in teacher preparation while others fall behind. Effective policy implementation is hampered by senior faculty members' resistance to change and a dearth of organized training initiatives.

States also have different governance and regulatory compliance frameworks, which affects how swiftly and effectively reforms are implemented. Some states lack defined execution roadmaps, while others have formed specialized NEP implementation task teams. Achieving universal implementation is difficult due to bureaucratic obstacles and inconsistent policies, but coordination between state governments, academic institutions, and regulatory agencies is essential for a seamless adoption.

This study examines these regional differences in higher education's adoption of NEP 2020 reforms by examining financial distributions, the creation of digital infrastructure, faculty training initiatives, and regulatory compliance among Indian states using secondary data sources. The study intends to offer insights into the efficacy of NEP 2020 and recommend policy solutions for closing the regional gap in higher education reforms by identifying significant implementation discrepancies and problems.

II. LITERATURE REVIEW

There has been a lot of scholarly and policy focus on the National Education Policy (NEP) 2020 implementation. There is little research on execution variations at the state level, whereas the majority of studies examine the influence at the national level. This review summarizes the body of research on important topics that influence the regional adoption of NEP 2020, including faculty readiness, digital infrastructure, financing discrepancies, and regulatory obstacles.

In his analysis of the governance issues surrounding the National Education Policy (NEP) 2020, Agarwal (2021) emphasized the importance of coordination between the federal and state governments. According to the research, some governments created specialized NEP task teams to expedite implementation, but others suffered from a lack of clear policy direction and bureaucratic inefficiencies. The study brought to light regulatory overlaps across several educational authorities, which resulted in delays in teacher training, curricular reform, and institutional autonomy. The survey also found that financial limitations are a major obstacle, especially for efforts involving digital learning and infrastructure improvements in governments with minimal resources. To guarantee consistent application across areas, the results emphasized the necessity of improved central-state coordination and policy monitoring systems.

The differences in NEP 2020 implementation between developed states (like Karnataka and Maharashtra) and underdeveloped states (like Bihar, Jharkhand, and Uttar Pradesh) were studied by Kumar & Singh (2022). According to the study, governments with greater institutional autonomy were better equipped to implement reforms like multidisciplinary education and the Academic Bank of Credits (ABC). On the other hand, adoption was sluggish in developing nations due to inadequate governance, limited digital literacy, and a lack of infrastructure. The study suggested faculty training programs, decentralized decision-making, and more funding to eliminate regional gaps in NEP 2020 implementation.

Funding differences among Indian states are a significant barrier to the consistent implementation of NEP 2020, according to the NITI Aayog Report (2021). Richer states like Maharashtra, Tamil Nadu, and Karnataka, according to the research, set aside sizeable sums of money for educational reforms that allowed for the expansion of digital learning, the upgrading of infrastructure, and faculty development initiatives. States with lower incomes, such as Madhya Pradesh, Jharkhand, and Bihar, had to deal with budgetary restrictions, which caused delays in infrastructure



improvements and restricted access to the internet. In order to help underfunded states close these budgetary gaps and carry out NEP 2020 more successfully, the report emphasized the necessity of public-private partnerships (PPPs), targeted grants, and central financial support mechanisms.

Significant regional differences were found when Gupta et al. (2022) looked at how public and private financing were allocated in India's higher education industry under NEP 2020. According to the report, states in the south and west (such as Tamil Nadu, Karnataka, and Gujarat) drew more private investment, which facilitated the swift implementation of innovative policies like digital learning, multidisciplinary education, and research financing. The implementation of policies was slowed considerably in the northeastern and central Indian states (such as Assam, Chhattisgarh, and Uttar Pradesh) by their persistent reliance on meager government resources. To guarantee fair funding distribution across all regions, the study suggested enhancing public-private cooperation, providing tax breaks to educational investment, and encouraging private sector involvement.

The digital gap was analyzed by the Ministry of Education (2021) as a significant obstacle to the effective execution of NEP 2020, especially in rural and semi-urban regions. According to the research, EdTech platforms, Massive Open Online Courses (MOOCs), and digital classrooms were quickly adopted by urban institutions to provide smooth online learning. However, there were other obstacles in remote and impoverished areas, such as poor ICT infrastructure, a shortage of digital devices, and restricted internet connectivity. In order to close the digital divide and guarantee that everyone has access to online education, the study underlined the necessity of government programs such device distribution schemes, subsidized internet access, and broadband expansion projects.

A comparative state-level examination of India's preparedness for digital infrastructure under NEP 2020 was carried out by Sharma & Roy (2023). States like Kerala and Tamil Nadu, according to their analysis, have highly developed ICT infrastructure, including government-backed e-learning platforms, digital literacy initiatives, and high internet adoption. On the other side, a lack of ICT-trained teachers, limited internet access, and insufficient digital literacy caused Bihar and Jharkhand to lag behind. According to the report, in order to guarantee a consistent digital transition throughout all regions, state-specific digital policies, infrastructural grants, and teacher training initiatives are crucial.

A study on faculty readiness for the NEP 2020 reforms was carried out by Patel & Mishra (2022). According to their research, states like Delhi and Karnataka that have well-organized faculty development programs have greater adoption rates of digital teaching methods, skill-based education, and transdisciplinary learning. To improve faculty preparedness, these states made investments in teacher training workshops, digital literacy courses, and continuous professional development (CPD) initiatives. States with less training programs, on the other hand, had trouble putting NEP reforms into practice because teachers found it difficult to adjust to the new teaching methods. In order to guarantee efficient policy implementation, the study underlined the necessity of national faculty development initiatives.

In their investigation of faculty resistance to change, Reddy et al. (2023) found notable differences in how institutions responded to NEP 2020 by state. Their research revealed that because of inflexible institutional frameworks, staff resistance, and a lack of exposure to interdisciplinary instruction, older universities in conservative states—specifically in Bihar, Uttar Pradesh, and Madhya Pradesh—were slower to embrace multidisciplinary techniques. However, forward-thinking universities in big cities like Hyderabad, Bengaluru, and Mumbai shown more adaptability by successfully incorporating EdTech tools, innovative learning models, and multidisciplinary programs. The study suggested focused training programs to assist teachers in implementing contemporary teaching techniques.

Das and Verma (2021) examined the regulatory obstacles that institutions faced when implementing NEP 2020. According to their research, states with autonomous higher education councils—like Tamil Nadu and Maharashtra—had an edge in implementing policies because of their well-organized governance structures and independence in changing their curricula. States that only depended on central guidelines, however, experienced implementation delays as a result of ambiguous regulatory mandates and administrative bottlenecks. According to the study, state-specific regulatory frameworks and more institutional autonomy may hasten the adoption of policies.

The HECI Report (2022) examined state-wise variations in the implementation of Academic Bank of Credits (ABC) and the multiple entry-exit system under NEP 2020. The findings revealed that while some states successfully integrated credit transfer mechanisms across institutions, others struggled due to administrative inefficiencies and lack



of inter-university coordination. The report highlighted that states like Kerala and Gujarat were early adopters of ABC, whereas states with weaker digital infrastructure and governance gaps—such as Assam and Odisha—faced significant delays. The study recommended a centralized framework for seamless credit transfers, coupled with state-specific implementation strategies to ensure smoother execution.

Your Research Gaps and Study Contribution section effectively highlights the lack of comparative state-level analysis in existing literature. Here's an expanded version that further strengthens your argument:

Research Gaps and Study Contribution

Although there have been many talks on the implementation of NEP 2020, the majority of research has concentrated on the influence of national policies rather than looking at regional differences. There is still a large gap in state-wise comparative analysis, despite the fact that prior research has shed light on important topics like faculty readiness (Patel & Mishra, 2022), funding disparities (NITI Aayog, 2021), policy execution challenges (Agarwal, 2021), and digital infrastructure (Sharma & Roy, 2023).

Furthermore, current research mostly looks at specific NEP 2020 components rather than offering a thorough analysis of how various governance models, institutional autonomy, and economic capacities affect how policies are implemented in various states. Few empirical studies have compared faculty training programs, digital infrastructure development, financial allocations, and regulatory frameworks at the state level using secondary data. By evaluating regional differences in the implementation of NEP 2020 and performing a thorough secondary data analysis, this study aims to close this gap. In order to offer policy recommendations for a more equitable and successful implementation of NEP 2020 throughout India, this research will look at state-by-state differences in funding methods, digital accessibility, faculty development programs, and institutional autonomy.

III. RESEARCH METHODOLOGY

In order to assess regional differences in the way the National Education Policy (NEP) 2020 is being implemented in higher education across Indian states, this study uses a secondary data analytic approach. A thorough and affordable way to examine state-by-state differences in faculty readiness, funding, digital infrastructure, and governance frameworks is through secondary data. The study's primary indicators, data sources, and comparative analytic techniques are described in this section.

3.1. Data Sources

1. Policy documents and government reports

Ministry of Education Reports on the Progress of NEP 2020 Implementation

NITI Aayog's studies on funding shortfalls and the development of the education sector

Reports on higher education governance are issued by the University Grants Commission (UGC).

2. Budget Allocations for Higher Education at the State Level

○State budget papers that detail education spending each year ○State-by-state trends in higher education financing

The distribution of funds for institutional growth, digital infrastructure, and faculty training

3. Statistics on the Adoption of Digital and Online Learning

Reports from the All India Survey on Higher Education (AISHE)

Information about the availability of digital devices, internet prevalence, and EdTech integration

Statistics by state comparing the accessibility of online learning in urban and rural areas

1. Institutional Surveys on Infrastructure Readiness and Faculty Training

Data on faculty training programs and capacity-building activities; studies and reports from higher education institutions; and institutional preparedness for the implementation of transdisciplinary learning and credit transfer systems



2. Research articles and policy reviews that have been published
- Peer-reviewed research on the difficulties in implementing NEP 2020
- Case studies of nations that have adopted reforms successfully and those that have not
- Public-private partnerships in higher education: reports

3.2. Important Comparative Analysis Indicators

This study employs four primary indicators to evaluate regional disparities:

1. Disparities in funding:

The amount spent on education per person in each state

Higher education investment by the government against the private sector ○Accessibility of grants, scholarships, and research money

2. Digital Accessibility and Infrastructure:

Internet penetration rates at higher education institutions in urban and rural areas

State-by-state adoption of MOOCs and EdTech platforms

The availability of electronic gadgets for both teachers and pupils

3. Institutional Readiness and Faculty Training:

Implementation of faculty development programs at the state level

Institutional readiness for flexible and transdisciplinary learning models

Acceptance of the multiple entry-exit system and the Academic Bank of Credits (ABC)

4. Governance and Regulatory Autonomy:

State higher education councils and regulatory agencies are present, universities have a certain amount of autonomy, and standard credit is being implemented. 1. Governance and Regulatory Autonomy:

State higher education councils and regulatory bodies are present.

Universities' level of autonomy and the adoption of consistent credit transfer guidelines throughout institutions

3.3. Method of Data Analysis

Using a comparative analysis approach, the report divides states into three groups according on how well they have implemented NEP 2020:

1. High Implementation States: These are states (like Karnataka, Maharashtra, and Tamil Nadu) that have robust infrastructure, good policy execution, and efficient government.
2. States with Moderate Implementation: States like Punjab, West Bengal, and Uttar Pradesh that have partially adopted but are confronted with financial or regulatory obstacles.
3. States that struggle with financial shortages, policy execution delays, and infrastructural deficiencies are known as low implementation states (e.g., Bihar, Jharkhand, North-Eastern states).

3.4. Limitations and Ethical Considerations

This study uses secondary data, which guarantees data accuracy by utilizing peer-reviewed and government-approved sources.

Unbiased interpretation by incorporating many viewpoints from various states

Nonetheless, the following shortcomings are acknowledged by the study:

Problems with data availability: Records from some states can be out-of-date or incomplete.

Insufficient primary data Direct surveys or interviews are not a part of this study.

Delays in policy execution: There are still some unknown long-term effects because NEP 2020 is still being implemented.

IV. STATE-BY-STATE COMPARISON OF NEP 2020 IMPLEMENTATION

Due to variations in finance, digital infrastructure, faculty training, and institutional autonomy, the National Education Policy (NEP) 2020 is implemented very differently in each Indian state. A comparative study of state-by-state



variations in policy implementation is provided in this section, emphasizing important 4.4. State-by-State Comparison of NEP 2020 Implementation

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4.1. Higher Education Funding Allocation

One of the most important elements affecting the implementation of NEP 2020 is funding. Reform adoption has advanced more quickly in states with larger education budgets, while impoverished states experience delays as a result of budgetary limitations.

States with strong financial backing include Delhi, Tamil Nadu, Karnataka, and Maharashtra.

These states have effectively implemented transdisciplinary programs, research projects, and digital education technologies. They also have stronger access to central government education schemes, such as RUSA (Rashtriya Uchchatar Shiksha Abhiyan), and receive larger state budget allocations.

States with inadequate funding include Bihar, Jharkhand, Odisha, and Uttar Pradesh.

These states rely significantly on central funds and have low per capita education spending. Lack of funding leads to inadequate infrastructure, a sluggish implementation of academic innovations, and limited faculty recruitment.

The primary obstacle: The uneven allocation of

4.3. Multidisciplinary Approach and Faculty Training

NEP 2020 places a strong emphasis on multidisciplinary education and faculty development. States differ greatly in their degrees of faculty training, nevertheless.

Elevated Levels of Faculty Training: Delhi, West Bengal, Maharashtra

Universities in these states have implemented multidisciplinary programs that promote adaptability and creativity in higher education, and these states have organized faculty development programs with frequent training workshops and refresher courses.

Restricted Opportunities for Training: Rajasthan, Assam, Uttarakhand

Many colleges in these states struggle with a lack of faculty and inadequate training programs.

NEP acceptance is slowed by opposition to digital pedagogy, new teaching techniques, and the integration of interdisciplinary curricula.

Key Challenge: Teachers are unable to completely execute NEP-driven pedagogical improvements due to resistance to change and a lack of organized training programs.

4.4. Institutional Reforms and Autonomy

Although NEP 2020 aims to provide higher education institutions more autonomy, state-specific regulatory systems vary.

Increased Autonomy Allowed:

Gujarat, Andhra Pradesh, and Tamil Nadu

Universities in these states are able to establish flexible academic structures because of their advanced higher education councils. Increased autonomy has resulted in the effective implementation of multidisciplinary research projects, numerous entry-exit systems, and the Academic Bank of Credits (ABC).

Restricted Independence: Jharkhand, Bihar, and Uttar Pradesh

Universities in these states are unable to implement flexible academic models due to bureaucratic delays and stringent regulatory oversight. Administrative roadblocks impede the approval of new courses, faculty hiring, and overseas partnerships.

The main obstacle preventing institutional autonomy and postponing the full implementation of NEP 2020 changes is regulatory obstacles and administrative resistance.



V. DIFFICULTIES IN IMPLEMENTING NEP 2020

Even though the National Education Policy (NEP) 2020 offers a revolutionary vision for higher education, there are a number of obstacles that Indian states must overcome in order to execute it. Financial constraints, a lack of digital infrastructure, faculty opposition, and problems with collaboration between the federal and state governments are the main causes of these difficulties.

5.1 Budgetary Restrictions

Many states, especially those with smaller education budgets like Bihar, Jharkhand, and Odisha, lack the funding necessary to successfully execute NEP 2020.

Financial aid is provided by central government programs such as Rashtriya Uchchatar Shiksha Abhiyan (RUSA), although reforms are slowed down by delays in cash allocation. Underfunded states find it difficult to hire staff, update university infrastructure, and launch new multidisciplinary programs.

5.2 The Digital Gap

The use of online education platforms is restricted by the disparity in infrastructure, digital literacy, and internet access between urban and rural areas.

While states like Madhya Pradesh, Chhattisgarh, and Bihar struggle to provide equal access to digital tools, others like Kerala and Telangana have achieved notable strides in digital learning.

Despite the pressing need for digital readiness brought to light by the pandemic, many rural higher education institutions still lack sufficient funding.

5.3 Resistance and Readiness of Faculty

Faculty training is necessary for the shift to digital learning and transdisciplinary education, but many educators are averse to change.

5.4 Problems with Central and State Authorities' Coordination

Although NEP 2020 offers a comprehensive national framework, state governments are ultimately responsible for implementing it.

A lack of defined implementation roadmaps and intergovernmental coordination has resulted in inconsistent acceptance of changes across regions, and many states experience bureaucratic delays when assembling task forces for higher education or creating new regulatory bodies.

VI. POLICY SUGGESTIONS

A mix of funding, infrastructure development, faculty training, and policy cooperation is required to overcome the implementation obstacles of NEP 2020. The following suggestions are meant to guarantee that NEP 2020 is implemented more consistently and successfully throughout Indian states.

6.1 More Central and State Funding

To guarantee that all areas receive sufficient assistance for improvements in higher education, the federal government should give underfunded states additional funding.

Spending on higher education should be a top priority for state governments, who should increase funding for research grants, faculty hiring, and university development.

6.2 Development of Digital Infrastructure

Broadband connectivity in rural regions will help close the digital divide and enable students in all states to access online education.

For pupils in remote locations, the government should implement e-learning platforms and reasonably priced digital learning resources.



ICT (information and communication technology) infrastructure development at higher education institutions can be accelerated through public-private partnerships.

6.3 Programs for Faculty Development

Creating faculty training programs at the federal and state levels will assist teachers in adjusting to new teaching strategies and interdisciplinary education.

Universities ought to support ongoing professional development initiatives that incorporate multidisciplinary approaches, research-based learning, and digital teaching resources.

6.4 Better Policy Coordination

To develop precise implementation plans, the state higher education councils, UGC, and the Ministry of Education should work together more effectively.

At the state level, more efficient implementation will be ensured via regular review meetings, progress evaluations, and feedback systems.

Implementing policies and allocating resources will be made easier with improved communication between federal and state agencies.

6.5 Specific Implementation Techniques

Every state must to create a unique NEP 2020 action plan that takes into account regional difficulties and particular educational requirements.

To guarantee that NEP benefits are distributed to all socioeconomic levels, special attention should be paid to underdeveloped and tribal areas.

Prior to full-scale adoption, pilot projects can be introduced in a few chosen colleges to test the efficacy of reforms and make any necessary adjustments.

VII. CONCLUSION

Due to variations in finance, digital infrastructure, teacher preparedness, and regulatory frameworks, NEP 2020 implementation in higher education differs greatly throughout Indian states. Adoption of digital learning, transdisciplinary education, and research-driven changes has advanced quickly in certain states while being delayed in others by administrative and financial limitations.

In order to realize NEP 2020's goal of an inclusive and globally competitive higher education system, these gaps must be addressed in the following ways:

Growth of digital education projects
Thorough faculty training programs
Improved coordination between federal and state authorities
Customized policy responses according to local requirements

A state-specific, well-funded, and technologically inclusive strategy can help India close the gap in higher education reforms and guarantee that NEP 2020 achieves its revolutionary objectives.

To better support the research, would you like to include particular state-by-state case studies or policy success stories?

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