

Revolutionizing Teacher Education: A Critical Analysis of Impact of NEP 2020 on Pedagogical Practices

Dr. Usharani Khuntia

Assistant Professor, Teacher Education, Govt. Teachers Training college, Phulbani, Odisha

Abstract

The National Education Policy (NEP) 2020 marks a paradigm shift in teacher education in India, emphasizing pedagogical transformation to improve teaching quality and learning outcomes. This paper critically finds the effect of NEP 2020 on pedagogical practices that revolved around the shift from rote-based learning to competency-driven experiential multidimensional approaches. It would also highlight various changes such as the introduction of a four-year Integrated Teacher Education Program (ITEP), Continuous Professional Development (CPD), and inclusion of technology in teacher training. It considers the success rates of NEP-induced interventions meant to provide teachers with critical thinking, creativity, and problem-solving skills. There's more to be examined under the implementation barriers-the gaps in infrastructure, the challenge of the digital divide, and policy hurdles, along with a comparative study with international teacher education for possible takeaways from the best practice. Recommendations are discussed regarding sustainable implementation and strong teacher training frameworks, policy convergence, and institutional support. Conclusively, this NEP 2020 is bound to reform the learning ecosystem in India to gain much better standards in this nation through the revamping of teacher education envied by all.

Keywords: NEP-2020, Teacher Education, Pedagogical Practices

1. Introduction

Teacher education is certainly the backbone of a strong and effective education system (Tatto & Menter, 2019)-one that determines where and how future generations will acquire knowledge and skills and instills in the citizens of society those values that mold their behavior in society. However, teacher education in India was for many decades marred by various problems-from largely pedagogical methods to poor or non-existent teacher training, and more importantly, its absence in continuous professional development. It was in line with above considerations indicative of identifying the issues that NEP (National Education Policy) introduced the transformative reforms under NEP 2020, all with an aim to enhance the quality of training of teachers, professional standards, and pedagogical practices. This NEP 2020 aims to introduce the whole new competency-based, multidisciplinary, and experiential approach of Teaching and Learning eliminating the traditional rote-learning system (Singh et. al. 2025). The introduction of the four-year Integrated Teacher Education Program (ITEP) is actually a very significant reform, and such a reform is to provide broad-spectrum training for future educators by injecting all area expertise, pedagogical skills, and practical work in the classrooms. The policy also includes Continuous

Professional Development (CPD) for serving teachers so that they can keep abreast with changing trends prevailing in educational methodologies and innovations in technology.

The major focus area of NEP 2020 is moving towards student-centric teaching methodologies, where facilitators would be equipped rather than mere deliverers of information. The use of experiential learning, problem solving, critical thinking, and digital tools is advocated in teaching-learning to engage students more effectively in learning. Across all these areas, platforms such as DIKSHA, SWAYAM, and NISHTHA are being expanded to offer teachers new avenues for self-paced study, as well as access to best practices and online training. Some challenges remain in achieving these ambitious reforms because implementing teacher education policies of NEP 2020 will be challenging due to both infrastructural constraints, gaps in digital access, reluctance to change in many cases from some educators, and variance in execution across states. Addressing these challenges requires a well-crafted implementation strategy, strong institutional support, and consistent feedback mechanisms to ensure teachers have proper training and amenities. This paper attempts a critical evaluation of the overall impact of NEP 2020 on teacher education and pedagogy, weighing its opportunities and challenges with specific reference to its implementation issues. It also examines the best global teacher education practices and suggests areas where their effectiveness could be maximized. NEP 2020 aims to revolutionize teacher training and pedagogy in the country to achieve a student-oriented, technology-driven, and future-ready education system in India.

2. NEP 2020 and its Vision for Teacher Education

NEP 2020 introduces several ground breaking reforms in teacher education, including:

2.1 The Four-Year Integrated Teacher Education Program (ITEP)

One of the most significant changes is the introduction of the **four-year Integrated Teacher Education Program (ITEP)** as the minimum qualification for teachers by 2030. This program replaces the traditional two-year B.Ed. degree, ensuring that teachers receive in-depth subject knowledge and pedagogical training. The ITEP integrates:

- **Multidisciplinary coursework**, including sciences, humanities, and education.
- **Practical classroom training** through internships and school-based projects.
- **Digital learning components** to familiarize teachers with modern educational technology.

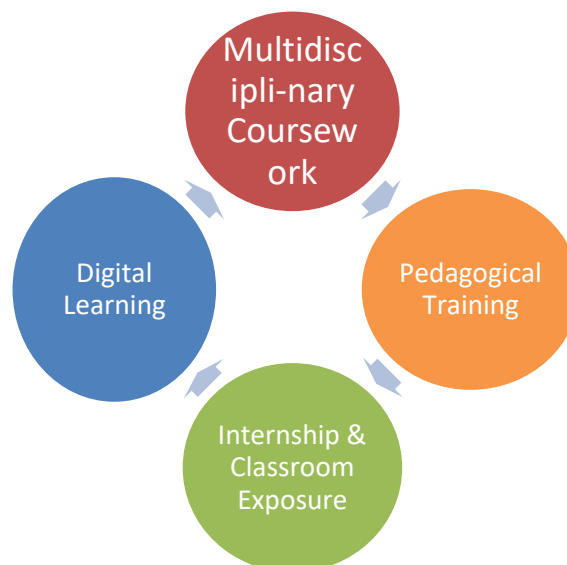


Figure-1 The Four-Year Integrated Teacher Education Program (ITEP)

2.2 Competency-Based and Experiential Learning

NEP 2020 shifts the focus from rote memorization to **competency-based education**. This approach emphasizes:

- **Critical thinking and problem-solving skills.**
- **Experiential learning methods**, such as case studies and project-based learning.
- **Personalized and adaptive learning**, leveraging artificial intelligence and digital tools.

2.3 National Professional Standards for Teachers (NPST)

To enhance the quality and accountability of teachers, NEP 2020 introduces the **National Professional Standards for Teachers (NPST)**. Developed by the National Council for Teacher Education (NCTE), NPST:

- Defines professional ethics, skills, and competencies required for teachers.
- Establishes clear **career progression frameworks** based on merit and performance.
- Ensures continuous assessment and professional development.

3. Impact of NEP 2020 on Teacher Training and Pedagogical Practices

3.1 Enhancing Continuous Professional Development (CPD)

NEP 2020 mandates that teachers undergo **at least 50 hours of annual CPD** to stay updated with evolving pedagogical trends. CPD focuses on:

- **Technology integration** in classrooms.
- **Inclusive education** for students with special needs.
- **Leadership and school management training** for senior educators.

3.2 Digital Transformation in Teacher Training

To ensure widespread accessibility and quality, the policy promotes online teacher training platforms such as:

- **DIKSHA**: Provides digital teaching resources and training modules.
- **SWAYAM**: Offers free online courses for teacher upskilling.
- **NISHTHA**: Aims at improving foundational literacy and numeracy teaching skills.

3.3 Multidisciplinary and Holistic Approach

NEP 2020 integrates teacher education with liberal arts and sciences to create **holistic educators**. Future teachers will be trained in:

- **Environmental and social sciences** to promote sustainability awareness.
- **Ethics, values, and life skills** for moral and emotional development.

4. Challenges in Implementing NEP 2020's Teacher Education Reforms

While NEP 2020 offers a progressive roadmap for teacher education, its implementation faces several challenges:

4.1 Infrastructure and Resource Constraints

Many schools, especially in rural areas, lack **adequate teacher training facilities** and **technological resources** to support digital learning. The success of ITEP depends on:

- Increased **government funding** for teacher education infrastructure.
- Expanding **internet connectivity and digital resources** in remote areas.

4.2 Resistance to Change and Policy Execution

Teachers accustomed to traditional teaching methods may resist the transition to competency-based learning.

ning. To address this:

- **Awareness campaigns** should educate teachers on the benefits of the new system.
- **Gradual implementation strategies** should ease the shift toward modern teaching approaches.

4.3 Variability in State-Level Execution

Education is a **Concurrent List subject** in India, meaning that states have significant autonomy in implementation. This results in:

- **Uneven adoption of NEP reforms** across different regions.
- **Need for a centralized monitoring mechanism** to ensure uniform progress.

5. Comparative Analysis with Global Teacher Education Models

Several countries have successfully implemented teacher education reforms that India can learn from:

5.1 Finland's Teacher Education Model

- Requires a **master's degree** for all teachers.
- Focuses on **research-based teacher training and classroom innovation**.
- Provides **extensive internships** before full-time teaching roles.

5.2 Singapore's Teacher Training System

- Offers structured **mentorship programs** for new teachers.
- Provides **continuous professional training** throughout a teacher's career.
- Uses **data-driven assessments** to refine teacher performance.

6. Future Directions and Recommendations

To maximize the success of NEP 2020's teacher education reforms, the following steps are recommended:

6.1 Strengthening Teacher Training Institutions

- Upgrade **existing teacher education colleges** to align with NEP 2020's standards.
- Ensure **uniform curriculum implementation** across all states.

6.2 Expanding Digital Learning and Infrastructure

- Increase **government-private partnerships** to enhance digital training platforms.
- Provide **subsidized devices and internet access** to rural teachers.

6.3 Encouraging Research and Innovation in Pedagogy

- Establish **teacher research grants** to encourage innovation in teaching methods.
- Create **collaborative networks** for knowledge-sharing among educators.

7. Conclusion

NEP 2020 is a watershed reform in India's teacher education system and has the potential to bring about a change in pedagogical practices. The emphasis of the policy on competency-based education, continuous professional development, and digital learning intends to prepare the teachers for the future. The success of the policy will solely depend on its effective implementation, timely funding, and political will across the states. The experiences of other countries with teacher education might further inform India's methodology. With sustained commitment and strategic planning, NEP 2020 could become the bedrock of a vibrant and student-centered education system in India.

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