



India's New Education Policy 2020: Its Implications, Challenges and Strategies for AI Revolution in Education System

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Dr. Yogesh Kumar Saxena¹✉ Prof. Himanshu Agarwal²✉ 

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¹Assistant Professor, Department of Commerce, Muslim Girls Degree College, Bulandshahr, UP, India

²Professor, Department of Commerce, Deva Nagri College, Meerut-250002, UP, India

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ABSTRACT

India's New Education Policy (NEP) 2020 is a transformative framework that aims to reshape the country's education system. This analytical study critically examines the key features, implications, and challenges associated with the implementation and success of NEP 2020. It explores the potential impact of the policy on access to education, curriculum reforms, teacher training, assessment practices, techno-innovation in education, AI revolution in education and governance structures. The study highlights the opportunities offered by NEP 2020 and raises important considerations for effective implementation and addressing potential hurdles. The study explores the various aspects of the policy, including universalization of education, curriculum reforms, teacher training, assessment practices and governance structures. It examines its potential challenges viz. capacity building, teacher training, community engagement, monitoring and evaluation and infrastructure development for upcoming AI technology. The study aims to propose strategies and recommendations for the success of NEP 2020 in the present technology driven era. Thus, the study seeks to provide a comprehensive analysis of India's New Education Policy 2020, its implications, challenges and potential strategies for AI revolution in Education System. Quality education is the dire need of Indian youth to ensure their future in the current rapidly transforming socio-economic-techno-innovative environment of the country.

1. INTRODUCTION

The National Education Policy (NEP) 2020 in India marks a significant milestone in the evolution of the country's education system. The previous National Policy on Education was implemented in 1986 and underwent limited revisions over the years. However, as India's socio-economic landscape and educational needs evolved, there was a growing recognition for a comprehensive and transformative policy framework. Additionally, the fast-paced changes in the global economy and the emergence of artificial intelligence (AI) called for a more dynamic and adaptable education system.

The NEP 2020 recognizes the need to align education with emerging challenges and opportunities, such as the AI revolution, globalization and sustainable development. The policy emphasizes the development of critical thinking, creativity and problem-solving skills as

well as promoting an interdisciplinary approach to education. It also seeks to promote research and innovation in higher education, aligning it with the evolving needs of society and the economy.

The development of NEP-2020 involved extensive consultations with various stakeholders, including educators, researchers, students, parents, and policymakers. The aim was to gather diverse perspectives, incorporate ground-level insights and ensure widespread ownership of the policy. The consultation process included national-level conferences, workshops, and inputs from experts across different domains of education.

Thus, the background and rationale for NEP 2020 stem from the need for a comprehensive and transformative policy framework that addresses socio-economic disparities, fosters holistic development and

prepares students for the challenges of new AI practices and blockchain technology. It draws on global best practices, incorporates stakeholder perspectives and seeks to focus on an inclusive, flexible and holistic development and relevance to the future-ready education system according to the needs of the 21st century.

2. SIGNIFICANCE OF THE STUDY

The study explores the various aspects of the policy, including universalization of education, curriculum reforms, teacher training, assessment practices and governance structures. It examines its potential challenges viz. capacity building, teacher training, community engagement, monitoring and evaluation and infrastructure development for upcoming AI technology. Thus, the study seeks to provide a comprehensive analysis of India's New Education Policy 2020, its implications, challenges and potential strategies for AI revolution in Education System.

3. KEY FEATURES AND IMPLICATIONS OF INDIA'S NEW EDUCATION POLICY 2020

The key features aim to ensure universal access to quality education, multidisciplinary and flexible curriculum, enhance teacher quality, introduce competency-based assessments and streamline governance and regulatory structures. These features collectively strive to transform the education system and prepare students for the challenges of upcoming AI based technological revolution. Following points narrate the key features and implications:

3.1 Access and Universalization of Education

NEP 2020 ensures equitable access to quality education to everyone irrespective of their socio-economic background. This leads ultimately, in enhancing educational opportunities for all.

3.2 Multidisciplinary and Flexible Curriculum

NEP-2020 promotes a multidisciplinary approach to education, allowing students to choose subjects based on their interests and aptitude, fostering creativity, critical thinking and problem-solving skills from across various disciplines. This approach when blended with

the AI can empower students to connect to diverse subjects, to apply their knowledge in real-world contexts and to tap career multidimensional opportunities.

3.3 Enhancing Teacher Quality and Technology Driven Professional Development

The policy focuses on enhancing the quality of education by emphasizing the need for comprehensive teacher training programs, continuous technology driven professional development. It also aims to establish a National Professional Standards for Teachers (NPST) to maintain high-quality teaching standards. This can have a positive impact on student learning outcomes and overall educational quality.

3.4 Competency-based Assessment and Reforms

NEP 2020 proposes a shift from rote learning and high-stakes examinations to competency-based assessments and comprehensive evaluation system. The focus is on such methods that provide feedback for student improvement and holistic development. The upbeat AI revolution can provide a more holistic view of students' capabilities, help to identify areas of improvement and facilitate personalized learning pathways.

3.5 Streamlining Governance and Regulatory Changes

The policy also emphasizes the decentralization of decision-making powers to states and local bodies, aiming to promote effective governance and greater autonomy for educational institutions. It recommends the establishment of the Higher Education Commission of India (HECI) as an autonomous and transparent regulatory authority for higher education. AI and internet technology can effectively stream regulatory processes to ensure transparency, promote innovation and facilitate a conducive environment for educational excellence.

4. IMPLEMENTATION OF NEP: LESSONS FROM INTERNATIONAL EDUCATION REFORMS

In the global context, education policy reforms play a crucial role in shaping the quality

and effectiveness of education systems worldwide. Education reforms have been undertaken by various countries to address the changing needs of the AI driven world. Analyzing the lessons learned from international education reforms can provide valuable insights to guide education reform efforts in India's New Education Policy (NEP) 2020.

4.1 Lesson 1: Finland's Education Reforms

Finland's education system is globally renowned for its excellence and equity. Finland is often cited as a model for successful education policy reforms. Finland emphasizes highly qualified individuals into the teaching profession, providing extensive training and granting autonomy in the classroom. It applies a holistic approach to education, emphasizing student well-being and individualized support, regardless of socio-economic background. Finland emphasizes on encouraging collaboration among teachers, schools, and policymakers, fostering a culture of trust and shared responsibility. It also prioritizing student well-being, creativity, critical thinking, and problem-solving skills alongside academic achievement. It implements formative and qualitative assessments to provide feedback and support students' learning progress.

4.2 Lesson 2: Singapore's Education Reforms

Singapore has achieved remarkable educational outcomes and has consistently ranked among the top globally. It always tries to set high expectations for students and educators, coupled with robust accountability measures. It emphasizes on prioritizing Science, Technology, Engineering, and Mathematics (STEM) education to help their students to survive efficiently in a technological future world. It integrates latest technology into teaching and learning to enhance engagement, personalized learning and access to educational resources. It promotes a culture of lifelong learning to adapt to the techno-transformations of the work. It recruits top graduates into the teaching profession, provides comprehensive professional development and promotes teacher leadership.

4.3 Lesson 3: Canada's Education Reforms

Canada's education system emphasize on

inclusive practices that support students with diverse learning needs and cultural backgrounds, recognizing and integrating indigenous perspectives, histories, and languages into the curriculum and supporting Indigenous students' cultural identities, granting local autonomy to schools and fostering community engagement in decision-making processes and promoting a comprehensive approach to student well-being including physical, mental, and emotional health are the key aspects of Canada's Education Reforms.

4.4 Lesson 4: South Korea's Education Reforms

South Korea's education system has achieved remarkable results in student performance through technological innovation. It always utilizes advanced technology and digital resources to enhance teaching and learning culture that values education and places importance on academic achievement. It provides rigorous teacher training, continuous professional development, competitive compensation and encouraging active participation of parents in their children's education.

4.5 Lesson 5: New Zealand's Education Reforms

New Zealand's education system incorporates the principles of the Treaty of Waitangi to ensure Māori cultural identity and language preservation. It believes in empowering students to actively participate in decision-making processes, shaping their learning experiences and valuing their perspectives. New Zealand offers flexible learning pathways in curriculum and assessment to cater to students' interests, strengths, and aspirations. It has an established professional learning communities to promote collaboration, knowledge-sharing, and continuous improvement.

Examining successful education policy reforms in countries like Finland, Singapore, Canada, South Korea and New Zealand reveal common themes that contribute to their success. There are two most common features that churn out of the analysis: Technology inclusion and teacher quality. Unprecedented

fast pace of AI driven techno-innovations is transforming every sector of socio-economic development rapidly. India, too, has to learn from the above examples and should enhance its education system through AI inclusive quality education standards. Otherwise, India will lag behind again in disseminating quality education to meet the techno-innovative needs of the country.

5. LESSONS LEARNED AND APPLICABILITY TO INDIA'S NEP 2020

The examples of successful education policy reforms in other countries can provide valuable insights and guidance for the success of India's New Education Policy (NEP) 2020. In this way, India has to strive hard to establish AI inclusive educational standards. Some points in this reference are discussed herein under:

5.1 Investing in Teacher Quality

Countries like Finland and Singapore have recognized the importance of investing in teacher quality as a key driver of educational success. NEP 2020 should prioritize technology driven professional development programs, attract high-quality candidates into the teaching profession and provide opportunities for teachers to shift from traditional teaching patterns to enhanced technology-based expertise of teaching.

5.2 Emphasis on Holistic Development

The emphasis on holistic development in Finland's reforms and New Zealand's student-centered approach align with NEP 2020's aim to promote multidisciplinary learning, critical thinking and creativity. NEP 2020 should focus on providing a well-rounded education that nurtures students' social, emotional, and cognitive development. This can be achieved through the integration of co-curricular activities, project-based learning, promotion of values such as empathy, ethics and inclusivity and environmental scanning.

5.3 Inclusive Education Policies

Canada's reforms and New Zealand's recognition of indigenous education provide important lessons for NEP 2020 to prioritize inclusive practices that accommodate students with diverse learning needs, cultural

backgrounds and disabilities.

5.4 Integration of Emerging Technology

The successful integration of technology in South Korea's reforms and Singapore's emphasis on technology in teaching and learning can serve as a lesson for NEP 2020 to leverage modern day techno-innovations to access to quality education and support personalized learning. It should also focus on building artificial intelligence literacy skills among students and teachers to fully harness the potential of upcoming latest technology in education.

5.5 Collaboration and Stakeholder Engagement

The collaborative networks established in New Zealand and Canada highlight the importance of engaging stakeholders in education policymaking and implementation. NEP 2020 should encourage effective collaboration among schools, teachers, parents, and community members. It should create platforms for dialogue, feedbacks and participation to ensure a shared vision and collective ownership of the policy.

5.6 Recognition of Cultural Diversity

New Zealand's recognition of Māori culture and Singapore's emphasis on multiculturalism in education underscore the significance of cultural diversity in education. Likewise, NEP 2020 should emphasize strongly on integration of India's rich cultural heritage and values into the curriculum.

Although, it is not easy to adapt the above-mentioned lessons to the Indian context and to ensure their alignment with the specific goals and challenges of NEP 2020. As, a big dedication and devotion is imbibed by these example countries in their education system at varied times. But, NEP 2020 can enhance its effectiveness, improve educational outcomes and create a transformative and artificial intelligence inclusive education system in future India by constant observing and analysis of successful education reforms of other countries.

6. CONCLUSION

In conclusion, India's New Education Policy (NEP) 2020 represents a significant step

towards transforming the education system in the country. This policy aims to address key challenges and provide a framework for quality education, equitable access and holistic development of students by applying modern day technology in the education system of the country. Through a comparative analysis of international education reforms and their lessons learned, valuable insights can be gained to achieve the success of NEP 2020.

However, the successful implementation of NEP 2020 requires addressing several challenges including infrastructural requirements, ensuring equitable implementation across diverse regions, overcoming resistance to change, addressing geo-economic disparities and effective inclusion of advanced technology. Strategies such as capacity building, collaboration with stakeholders, monitoring and evaluation mechanisms and addressing infrastructural gaps can contribute to effective implementation and timely success of the policy in Indian context. Moreover, the rapid transformation of digital technology into artificial intelligence-based technology is the authors' main concern here. In lack of proper intervention of technology in education can lead to a big failure of the policy.

7. RECOMMENDATIONS FOR THE SUCCESS OF NEP 2020

Based on the analysis of India's New Education Policy (NEP) 2020, as well as lessons learned from international education reforms, the following recommendations are proposed for the successful implementation of NEP 2020:

- a. Policymakers should develop a clear and comprehensive plan that outlines the key features of the policy, including universalization of education, multidisciplinary curriculum, teacher training, assessment reforms, governance changes and technology inclusion in the education. This will provide a roadmap for effective execution, monitoring and further, the success of the policy.
- b. Policymakers should foster collaboration among key stakeholders, including government agencies, educational

institutions, teachers, parents, students and community members. Regular communication, consultation, and engagement among the stakeholders shall ensure a shared understanding of NEP 2020's objectives, promote ownership and harness collective expertise and resources.

- c. A comprehensive capacity-building programs and techno-innovative professional development initiatives for teachers, school administrators and other educational personnel should be initiated without delay. These programs should focus on upgrading pedagogical skills, integrating latest AI technology in teaching. Adequate technology resources and internet support should be provided to ensure the success of above-mentioned programs.
- d. Allocation of sufficient techno-economic resources for infrastructure development including classrooms, libraries, laboratories, internet, tech-machines, AI and digital infrastructure and other learning support systems that enhance the conducive independent academic environment.
- e. Policymakers should establish robust monitoring and evaluation mechanisms to track the progress, effectiveness and impact of NEP 2020. They should develop reliable indicators and assessment tools to measure outcomes, identify challenges and modify policy decisions. Technology driven targeted interventions must be a necessary part of the policy to ensure continuous improvement.
- f. High consideration of piloting specific initiatives and reforms before scaling them up to the national level is a necessary exercise for the success of the NEP 2020. Pilot studies provide ensured opportunities to test and refine approaches, strong grounds to assess feasibility and potential identification of true challenges and sure shot solutions.
- g. Conduction of regular reviews and evaluations of NEP 2020's implementation is necessary to assess progress, identify areas for improvement and make necessary adjustments. Adaptations on emerging

needs, changing contexts and evolving educational trends should be allowed at a regular interval.

These recommendations, if adopted can promise the success of NEP 2020 in India.

Quality education is the dire need of Indian youth to ensure their future in the current rapidly transforming socio-economic-techno-innovative environment of the country. ■

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