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RE-CONCEPTUALIZE THE PEDAGOGICAL PRACTICES IN HIGHER EDUCATION SYSTEM IN INDIA: IN THE CONTEXT OF NATIONAL EDUCATION POLICY 2020

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Abstract

The National Education Policy (NEP) 2020 proposes a paradigm shift in Indian higher education, focusing on flexibility, multidisciplinary approaches, and the integration of the Indian Knowledge System (IKS). Through this study explores how the pedagogical landscape must evolve to align with the NEP's vision, emphasizing the need for holistic education that combines modern technological advancements with India's rich cultural heritage. This article has analyzing the challenges and opportunities in implementing these changes, the role of educators, the shift to student-centric learning, and the use of experiential learning. The critical analysis delves into the potential impact on teaching, learning, and educational institutions, with a special focus on how NEP 2020 can enhance both the global competitiveness and cultural uniqueness of Indian higher education. By examining strategies such as experiential learning, digital pedagogy, and interdisciplinary approaches, the study highlights how these methodologies enhance critical thinking, creativity, and cultural consciousness among students. The integration of IKS with modern teaching methodologies bridges traditional wisdom with contemporary education, fostering a sense of identity and sustainability. By adopting a qualitative research design, this study investigates different policy documents that are connection with pedagogical practices to propose actionable strategies for educators and policymakers. This article emphasizes that the successful implementation of NEP 2020's vision requires collaboration across educational institutions, industry stakeholders, and communities. Ultimately, the adoption of innovative pedagogies can position India's higher education system as a model of inclusive and future-ready learning.

Keywords: Innovative Pedagogy, Experiential Learning, Digital Pedagogy

Introduction

The NEP of 2020 is one of the most extensive reforms in decades in the education system of India. The policy aims to make Indian education comparable with international standards and encourages flexibility and an emphatic holistic learning framework for students. Its policies signify a progressive step forward from stiff examination-oriented rote-learn-based systems that constitute the histories of Indian education and most exclusively higher education. The Key goals of the NEP 2020 are to transformation of pedagogical practices in higher education system. Pedagogy that indicates the art and science of teaching directly influences learning outcomes, critical thinking, creativity, and the overall intellectual development of students. NEP 2020 advocates for the adoption of student-centric, flexible, and multidisciplinary pedagogical practices, integrating both contemporary knowledge systems and the rich cultural heritage embedded in the Indian knowledge system (IKS).

However, translating the policy's vision into practical, implementable strategies is a complex challenge that demands a critical examination. There is a need for pedagogical frameworks that not only address the demands of a rapidly evolving global workforce but also retain the cultural specificity of Indian education. This article will critically analyze how pedagogical practices in higher education can be re-conceptualized in light of NEP 2020, with a focus on student-centered learning, technology integration, the Indian knowledge system, and the role of educators in this new paradigm.

21st-century higher education focused to develop good, thoughtful, well-rounded, and creative personality. In addition, it aims to promote high-quality learning outcomes and students' personal growth and wellbeing. According to National



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Education Policy 2020 (NEP 2020), higher education must play a vital role in promoting human as well as societal wellbeing. But it can only be possible by ensuring a good institutional environment, pedagogical practices. Therefore, it demands pedagogical wellbeing at Higher Education Institutions (HIEs). Pedagogical wellbeing, a core teaching and learning process, includes planning and carrying out instructional activities, good interaction among students, teachers, and other institutional community members, exercising leadership in the institution and community, and empowering students and teachers to experience joy and satisfaction in their daily teaching-learning activities. It has several domains or subcategories and is also affected by various internal and external factors. Teachers and students must adopt many strategies and practices to experience a positive cycle of pedagogical wellbeing and cope with several pedagogically challenging situations in higher education. This paper gives an overview of the essence, concept, domains, factors, and dimensions of pedagogical wellbeing and some strategies for promoting it in the light of NEP 2020 at the higher education system.

The Need for Pedagogical Transformation: A Critique of Traditional Approaches

Pedagogy is an art of teaching or sharing knowledge which is dynamic in nature and may vary from the institutions to institutions, platform to platform, classroom to classroom to classroom teacher to teacher. One of the basic critiques leveled against the traditional higher education system in India is its inflexibility. Higher education in India, for much of the 20th century and early 21st century, has been characterized by highly structured, discipline-specific curricula with little room for interdisciplinary exploration or student autonomy. Students have been restricted to narrow academic pathways with few opportunities to explore subjects beyond their major, limiting their exposure to multidisciplinary knowledge. Moreover, the over-reliance on exam-based assessments has stifled creativity, critical thinking, and problem-solving skills.

The NEP 2020 challenges this status quo by emphasizing a more flexible and multidisciplinary approach to higher education. The policy advocates for the dismantling of rigid divisions between arts, sciences, and vocational streams, encouraging students to design their own learning paths based on their interests and aspirations. The incorporation of flexibility into pedagogical practices means that students can choose subjects from a wide array of disciplines, enabling them to gain a more well-rounded education. This shift toward flexibility and interdisciplinary aligns with global educational trends that recognize the importance of holistic development in preparing students for the future workforce. In countries like the United States and parts of Europe, liberal arts education models that allow students to explore multiple disciplines before declaring a major are prevalent. NEP 2020's emphasis on multidisciplinary learning aims to replicate such models, with the added dimension of integrating India's cultural heritage through the IKS.

Objective of the Study:

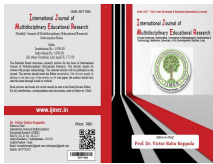
- To explore the innovative pedagogical practices in higher education with the context of NEP 2020.

Methodology

This paper employs a qualitative approach, drawing from the secondary sources like policy documents, National Education policy 2020 document, research article and different web-resources.

Discussion:

Adopting diverse teaching-learning approaches ensures that the education process remains aligned with current and future advancements. Strategies such as empirical learning, inquiry-based methods, case-based education, problem-solving approach, project-based activities (individual or group), discovery learning, hands-on practical work, and enhanced use of technology—including digital tools, e-learning platforms, and online resources—significantly improve teaching, learning, and assessment. Additionally, field-based learning and visits to industries or research facilities foster deduction-based



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learning (Dixit, 2024). These pedagogical methods focus on constructive learning and actively engage students in their educational journey, addressing the demands of a 21st-century learning environment. The National Education Policy 2020 documents highlighted some point namely Para 4.4, Para 9.3(d), Para 11.6, Para 12.1, Para 12.2 and Para 12.6, envisage modern instructive approaches. This policy emphasizes on the all-round improvement of the learners which have need of using ground-breaking pedagogical practices (NEP 2020) which are discussed in bellow-

Student-Centered Learning: A Critical Paradigm Shift

One of the most profound shifts in pedagogical philosophy under NEP 2020 is the move toward student-centered learning. In traditional Indian higher education, pedagogy has largely been teacher-centric, with students expected to passively receive knowledge from educators. NEP 2020 seeks to transform this dynamic by placing students at the center of the learning process, empowering them to take ownership of their education.

Student-centered learning involves active participation, where students are encouraged to engage in inquiry, exploration, and critical thinking. This approach aligns with contemporary educational theories such as constructivism, which posits that learners actively construct their knowledge through understanding and interactions with their surroundings. Under the NEP 2020 framework, pedagogical practices should therefore prioritize experiential learning, problem-solving, and real-world appliance of understanding.

Flipped Classroom Pedagogy: This is an innovative teaching method rooted in constructivist principles. It incorporates blended learning, prioritizing 21st-century skills such as creating, evaluating, and analyzing through activity-based classroom interactions. The approach fosters a flexible and engaging learning environment that enhances teacher-student collaboration.

Art-Integrated Learning Pedagogy: A joyful, experiential approach that nurtures learners' potential for holistic development. Students actively engage in the learning process, utilizing various art forms to explore, express, and connect their understanding across subjects, promoting creativity and deeper learning.

Project-Based Learning Pedagogy: This method emphasizes reflective practice and collaboration, enabling students to relate academic concepts to real-world situations. It supports lifelong learning and develops 21st-century skills through interactive online platforms, fostering critical thinking and practical application.

Cutting-Edge Pedagogy: Focused on innovation and problem-solving, this approach integrates technology to meet diverse learning needs. Digital platforms like Pear Deck are employed to create interactive and engaging online learning environments, ensuring adaptive and student-centered education.

Critical Pedagogical Approach: Designed to enhance critical thinking, this method encourages learners to question what and why they are learning, engage in problem-posing, and independently discover solutions. Experiential learning plays a significant role, aligning with NEP 2020's emphasis on internships, community engagement, and research projects for hands-on, practical learning that builds employability and deep subject understanding.

Blended Learning: Combining online and face-to-face instruction, this strategy leverages digital tools like Learning Management Systems (LMS) and MOOCs to create flexible and accessible learning opportunities. Adaptive technologies enable personalized feedback, fostering individualized learning experiences.



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Brainstorming: A creative exercise where learners are invited to generate ideas on a specific problem or issue without criticism. This process encourages imaginative thinking, followed by critical analysis and categorization of ideas, often collaboratively with the teacher or peers, to build new concepts and understanding.

Integration of Digital Pedagogy: The increased use of digital tools, spurred by the pandemic, aligns with NEP 2020's vision of technology-enhanced education. Platforms like SWAYAM and DIKSHA provide high-quality, self-paced learning resources, while virtual labs and simulations enrich experiential learning, especially in technical fields. Emerging technologies such as AI, AR, VR, and gamification personalize learning and make abstract concepts more tangible. However, ensuring equitable access to technology remains a critical challenge, necessitating targeted efforts to close the digital divide.

Experiential Learning

Experiential learning aligns with NEP's focus on practical knowledge and real-world applications.

- **Internships and Apprenticeships:** Embedding these in curricula ensures students acquire industry-relevant skills. It will be connecting the industry and educational institutions.
- **Community Engagement:** Service-learning projects connect students with local communities, fostering social responsibility.
- **Problem-Based Learning (PBL):** Students tackle real-world challenges, enhancing critical thinking and problem-solving skills.

Inclusive Pedagogy

- Ensuring equitable access to quality education is a cornerstone of NEP 2020.
- Creating flexible learning environments that accommodate diverse learner need.
- Higher education must be offering courses in regional languages to improve accessibility in classrooms.

❖ Integrating the Indian Knowledge System (IKS) in Pedagogy:

A significant aspect of NEP 2020 is its emphasis on the Indian knowledge system (IKS), which includes traditional Indian philosophies, sciences, and languages. The policy encourages higher education institutions to integrate IKS into their curricula, allowing students to gain a deeper understanding of India's rich cultural heritage while developing the skills necessary for global competitiveness.

The Indian Knowledge System encompasses a vast array of traditional knowledge, including ancient Indian mathematics, astronomy, architecture, medicine (Ayurveda), philosophy (Vedanta), and languages such as Sanskrit. NEP 2020 recognizes the importance of preserving and promoting this knowledge while ensuring that it is integrated into modern education in meaningful ways.

Integrating IKS into higher education is not merely about teaching ancient texts or philosophies; it is about creating a holistic learning experience that bridges the gap between traditional and modern knowledge systems. For example, students in engineering programs could explore ancient Indian architectural principles alongside contemporary design techniques, while those in healthcare could study Ayurveda in conjunction with modern medical science.

However, this integration poses several critical questions. How can higher education institutions ensure that IKS is taught in a way that is both rigorous and relevant to modern contexts? Moreover, how can educators balance the teaching of IKS with the demands of a globalized world that emphasizes STEM (science, technology, engineering, and mathematics)



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education? There is also the risk that the inclusion of IKS could be tokenistic, with superficial coverage of traditional knowledge that does not engage students in meaningful critical analysis.

To avoid these pitfalls, the integration of IKS into pedagogy must be done thoughtfully, ensuring that traditional knowledge is not presented as static or outdated but as a dynamic and evolving field that continues to offer valuable insights in the modern world. This requires the development of interdisciplinary courses that allow students to explore the connections between IKS and contemporary knowledge systems, fostering a deeper understanding of both.

Challenges to Implementation

While the NEP 2020 presents a forward-looking vision for the future of higher education in India, its successful implementation faces several critical challenges. These challenges range from institutional inertia to resource constraints and the need for professional development among educators.

1. **Institutional Inertia:** Indian higher education institutions are often slow to adopt change, particularly when it involves significant shifts in pedagogy and curriculum. The move toward a more flexible, multidisciplinary system will require institutions to rethink their organizational structures, create new departments, and offer new courses, which may face resistance from both faculty and administration.
2. **Resource Constraints:** Implementing NEP 2020's pedagogical recommendations requires substantial investments in infrastructure, technology, and teacher training. Many higher education institutions, particularly public universities, may lack the financial resources to implement these changes at scale. The digital divide also poses a significant challenge, as not all students have equal access to the technology needed for blended learning.
3. **Professional Development for Educators:** The success of NEP 2020's pedagogical reforms hinges on the ability of educators to adapt to new teaching methods and technologies. This requires ongoing professional development and support for teachers, ensuring they are equipped with the skills necessary to facilitate student-centered learning, integrate technology, and teach in multidisciplinary settings.
4. **Assessment and Evaluation:** One of the most significant challenges in re-conceptualizing pedagogy is the need for new assessment and evaluation methods. Traditional exams and grading systems may not adequately capture the learning outcomes of student-centered, multidisciplinary, and experiential learning models. Institutions will need to develop alternative assessment methods, such as portfolios, project-based assessments, and competency-based evaluations that align with the pedagogical goals of NEP 2020.

Path ways for the effective implementation of Pedagogical practices in higher education system:

Capacity Building: Conducting regular training programs for faculty on innovative pedagogical methods.

- Faculty development initiatives should focus on equipping educators with digital literacy, blended learning strategies, and tools for fostering critical thinking and creativity.
- Workshops and certifications in new-age pedagogical techniques can ensure teachers are prepared to meet diverse learner needs.

Infrastructure Development:

- Investing in digital tools, laboratories, and libraries.
- Expanding high-speed internet access and creating smart classrooms to enable hybrid and online learning.



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- Establishing virtual labs for disciplines requiring hands-on experiments and providing sufficient funding to update existing infrastructure.

Collaboration:

- Encouraging partnerships between academia, industry, and government.
- Collaborations with industries can facilitate curriculum alignment with market demands and improve employability.
- Public-private partnerships (PPPs) can enhance resource mobilization and infrastructural development.
- International collaborations can provide exposure to global best practices and enhance the credibility of Indian higher education institutions.

Monitoring and Evaluation:

- Establishing mechanisms to assess the effectiveness of pedagogical innovations.
- Developing metrics for evaluating the outcomes of innovative practices such as learner engagement, skill acquisition, and employability.
- Implementing regular audits and reviews of pedagogical strategies to identify gaps and areas of improvement.
- Creating a centralized body to oversee and support the implementation of NEP's innovative practices across institutions.

Research Support:

- Funding interdisciplinary and IKS-related research projects.
- Establishing dedicated grants for research in areas like sustainability, artificial intelligence, and traditional knowledge systems.
- Encouraging higher education institutions to form interdisciplinary research centers to solve complex societal problems.
- Creating platforms for scholars to share findings and collaborate on Indian knowledge system integration and innovation.

Policy Alignment and Advocacy:

- Ensuring synchronization between NEP goals and institutional strategies.
- Aligning institutional policies and practices with NEP's framework to streamline implementation.
- Advocacy and awareness campaigns to foster acceptance of NEP recommendations among educators, students, and the public.

Conclusion

The National Education Policy 2020 sets forth an ambitious vision for the transformation of higher education in India, with pedagogy playing a central role in achieving its objectives. The shift from rigid, exam-driven systems to flexible, multidisciplinary, and student-centered approaches represents a significant departure from traditional educational practices.



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The integration of technology and the Indian knowledge system offers new opportunities for creating a more holistic and culturally relevant education system.

However, the successful implementation of these pedagogical reforms requires overcoming several critical challenges, including institutional inertia, resource constraints, and the need for professional development among educators. Moreover, the re-conceptualization of pedagogy must be accompanied by a rethinking of assessment and evaluation methods to ensure that students are not only acquiring knowledge but also developing the skills and competencies needed for the future workforce.

In conclusion, NEP 2020 provides a roadmap for the future of Indian higher education, but its success depends on the collective efforts of policymakers, educators, and institutions to embrace change and create learning environments that are flexible, inclusive, and globally competitive.

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