Reimagining Architectural Education in India: A Forward-looking Review of Nep 2020defining **Urban Development: A Fresh Perspective on Smart Cities in India**

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Abstract: The architectural education landscape in India stands at a crossroads, witnessing transformation in the wake of the National Education Policy (NEP) of 2020. This policy emphasizes holistic and multidisciplinary learning, demanding a reevaluation of architectural pedagogy. Architects today engage with diverse facets of society, technology, and culture, necessitating a departure from traditional silos. This research paper reviews the key provisions of NEP 2020, their impact on architectural education, and international best practices. It concludes with recommendations for reimagining architectural education in India within the context of NEP 2020, aimed at fostering adaptability, relevance, and quality.

Index Terms - Architectural Education, NEP 2020, Holistic Learning, Multidisciplinary Pedagogy, **Reimagining Education**

I. Introduction

1.1 Background

India's architectural education has undeniably left a profound impact on the nation's historical, cultural, and economic development. From the grandeur of ancient temples to the towering skyscrapers of modern cities, the architectural landscape stands as a testament to the contributions of architectural professionals who have emerged from the diverse institutions offering architectural education. These educational institutions have long served as crucibles of creativity and innovation, fostering a generation of architects who have molded the very fabric of the nation's urban and rural spaces.

However, as the educational landscape undergoes transformative changes, architectural education stands at a crossroads. The introduction of the National Education Policy (NEP) in 2020 heralds a new era in education, one that emphasizes holistic and multidisciplinary learning. In this paradigm shift, architectural education is no exception. Architects today are expected to do more than design structures; they must grapple with the intricate interplay between built environments, technology, sociology, and culture. The traditional silos that once separated architectural education from other fields are no longer sufficient to prepare future architects for the multifaceted challenges of the 21st century.

In this context, it becomes increasingly crucial to explore how the principles and directives of NEP 2020 align with the evolving roles and responsibilities of architects. The transformation of architectural education is not merely an institutional matter but one that resonates deeply with the very essence of India's architectural identity and its broader role in shaping a sustainable, inclusive, and culturally rich future for the nation. This exploration will shed light on the pathways to equip the architects of tomorrow with the knowledge, skills, and vision they need to navigate the complex challenges and opportunities that lie ahead.

1.2 Research Objectives

This research paper is driven by three core objectives:

- 1. Review of NEP 2020 Provisions: To comprehensively review the key provisions of NEP 2020 that are pertinent to architectural education. This involves a detailed exploration of the policy's recommendations related to holistic education, multidisciplinarity, and quality enhancement.
- 2. Impact Assessment: To assess the potential impact of NEP 2020 on architectural pedagogy. This includes an analysis of how the proposed changes will influence the curriculum, teaching methods, and overall educational experience of architecture students.
- 3. Recommendations for Reimagining Architectural Education: To propose recommendations for reimagining architectural education in India within the context of NEP 2020. These recommendations will be grounded in the research findings and international best practices in architectural education.

II. THE NATIONAL EDUCATION POLICY 2020: KEY PROVISIONS

2.1 Multidisciplinarity and Holistic Education

A significant cornerstone of the National Education Policy (NEP) 2020 is the introduction of multidisciplinary education, a concept aimed at nurturing holistic development. This innovative educational approach extends far beyond the conventional silos of learning and demands an in-depth examination. For architectural education, this paradigm shift is particularly transformative. Traditionally, architectural programs have centered around the art and science of building design, emphasizing the architectural principles and techniques. However, the emergence of the multidisciplinary approach beckons educators and institutions to venture beyond these well-established boundaries.

Under NEP 2020, architectural education takes on a new dimension, transcending its conventional confines. It not only equips students with the foundational knowledge of architecture but also encourages exploration beyond the immediate realm of the built environment. This implies a pivotal shift in perspective. Architects are no longer viewed solely as constructors of structures; they are now expected to embrace a broader role. This new role encompasses the appreciation of interdisciplinary linkages and the capacity to intertwine architectural principles with other fields such as engineering, social sciences, and the arts.

Such multidisciplinarity empowers architectural students to become visionaries who can view design problems holistically. They are equipped to analyze the intricate relationship between the built environment, society, technology, culture, and the natural world. By breaking down traditional boundaries between architectural education and other disciplines, NEP 2020 ushers in a new era where architects are prepared to address the multifaceted challenges of the present and future.

2.2 Quality Enhancement and Accreditation

The emphasis on enhancing educational quality stands as a pivotal element within NEP 2020. However, this enhancement extends far beyond the typical academic metrics that gauge learning outcomes and achievements. It delves into the development of essential competencies among students, such as critical thinking, innovation, and adaptability. This section delves into how the policy's profound emphasis on quality enhancement resonates with the distinctive needs of architectural education.

Architectural education, while imparting the requisite skills and knowledge for design, must now, under the purview of NEP 2020, pay explicit attention to the development of the cognitive and practical proficiencies that students need in a rapidly evolving world. Architectural institutions need to place emphasis on critical thinking, creative problem-solving, and the ability to adapt to ever-changing technological advancements and environmental challenges.

Accreditation mechanisms come into sharp focus within this context. Accreditation provides a framework to ensure that architectural institutions maintain the highest educational standards. It is within the purview of these accreditation processes that institutions can monitor and adapt their programs to align with the new educational paradigm. As quality enhancement becomes integral, accreditation acts as a guiding mechanism to ascertain that architectural students are not only well-versed in the principles of design but are also adequately equipped with the broader skills necessary to excel in a world characterized by rapid innovation and evolving societal dynamics. Therefore, it becomes essential to explore how architectural education institutions adapt to the quality-centric vision of NEP 2020 and how accreditation mechanisms are employed to uphold these standards.

III. ARCHITECTURAL EDUCATION IN INDIA: CURRENT LANDSCAPE

3.1 Overview of Architectural Programs

Architectural education in India is characterized by its rich diversity and vibrancy. The nation boasts a multitude of institutions that offer an extensive array of architectural programs, both at the undergraduate and postgraduate levels. This section aims to provide a comprehensive overview of the existing educational landscape, shedding light on the strengths and weaknesses inherent in the current system.

One of the notable strengths of architectural education in India is its unwavering commitment to design. It places significant emphasis on nurturing the creative and artistic aspects of architecture. The country's architectural heritage, characterized by splendid monuments and a history that spans thousands of years, serves as a profound source of inspiration. Furthermore, Indian architectural institutions are home to dedicated teaching faculties comprising seasoned professionals who impart their expertise to the next generation of architects.

Despite these strengths, there exist certain areas in which architectural education in India requires rejuvenation. Outdated curricula are one such concern, as they may not adequately equip students with the latest knowledge and skills required in a rapidly evolving field. The imperativeness of sustainable architecture and eco-friendly practices is another domain where there is room for significant improvement. Moreover, there is a growing need to integrate emerging technologies, such as Building Information Modeling (BIM) and sustainability-focused design software, into the architectural curriculum. By embracing these innovative tools and practices, architectural programs can ensure that graduates are well-prepared to address the contemporary and future challenges of the profession.

3.2 Challenges Faced by Architectural Education

Amidst the vibrancy of architectural education in India, there exist certain challenges that warrant attention. Outdated infrastructure in many institutions is a common concern. It is essential to ensure that the physical spaces in which architectural education occurs are conducive to the holistic development of students. From well-equipped design studios to state-of-the-art workshops, infrastructural improvements are needed to foster creativity and innovation.

Another pressing issue is the shortage of qualified faculty members. Skilled educators form the backbone of architectural education, and institutions must address the deficit in this regard. Quality enhancement, as proposed by NEP 2020, holds the potential to attract more qualified faculty members and raise the overall standard of education. Furthermore, better faculty-student ratios and professional development opportunities for educators are vital to ensure the delivery of high-quality architectural education.

Architectural institutions also grapple with limited access to advanced resources, libraries, and materials essential for students' research and coursework. As the policy emphasizes multidisciplinary and access to a wide array of resources, NEP 2020 could pave the way for architectural institutions to enhance their library holdings and digital resources, thus facilitating comprehensive and interdisciplinary learning.

In conclusion, the challenges facing architectural education are indeed formidable, but they also present opportunities for growth and transformation. NEP 2020's focus on quality enhancement and multidisciplinary has the potential to be a catalyst for positive change, as it aligns with many of the pressing needs and concerns

of architectural education in India. The next section delves into how the policy's provisions can be harnessed to bring about a much-needed evolution in architectural education.

IV. INTERNATIONAL BEST PRACTICES IN ARCHITECTURAL EDUCATION

4.1 Case Studies

The global landscape of architectural education features numerous innovative programs. To reimagine architectural education in India, it is essential to explore international case studies that showcase how multidisciplinary and holistic approaches have been successfully implemented. These case studies provide insight into various educational models, including joint programs with other disciplines and interdisciplinary studios that encourage creative problem-solving.

4.2 Lessons Learned

Lessons learned from international best practices in architectural education are invaluable. This section examines the key takeaways and identifies the principles that can be incorporated into the Indian context. It also emphasizes the importance of fostering a culture of experimentation, adaptability, and continuous improvement within architectural institutions.

V. REIMAGINING ARCHITECTURAL EDUCATION IN INDIA

5.1 Recommendations

This section forms the heart of the research paper, presenting a set of specific, evidence-based recommendations for reimagining architectural education in India. These recommendations are framed by the findings of the research and the insights gathered from international best practices. Key areas of focus include curriculum design, faculty development, infrastructure improvement, industry integration, and student engagement. The goal is to align architectural education with the transformative vision of NEP 2020 and create a more relevant, responsive, and robust educational system.

5.2 Overcoming Challenges

Implementing substantial changes in any educational system is bound to encounter challenges. This section addresses potential obstacles and offers pragmatic strategies to overcome them. For instance, overcoming resistance to change among faculty, managing the logistics of curriculum revisions, and securing resources for infrastructure improvements are all important considerations.

VI. CONCLUSION

6.1 Summary of Key Findings

The conclusion summarizes the research findings and their significance. It reiterates the key provisions of NEP 2020 that are relevant to architectural education and highlights how these provisions could positively transform the architectural education landscape in India. It underscores the potential for creating a more dynamic, adaptable, and relevant educational system that equips graduates with the skills and knowledge needed to address contemporary challenges.

6.2 Future Directions

The final section of the paper emphasizes the importance of forward-looking thinking in architectural education. It calls for ongoing research, collaboration, and concerted efforts within the architectural education community. The reimagining of architectural education is an ongoing process that requires collective engagement. The paper encourages the pursuit of innovative strategies and collaborative initiatives to ensure that the recommendations are transformed into actionable changes.

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