

Exploring Innovative Pedagogy for Gifted Education: Context of NEP 2020Debalina Bhowmick¹ & Dr. Meena Vishweshwar Rakshe²DOI: <https://doi.org/10.5281/zenodo.18996256>

Review: 04/02/2026

Acceptance: 04/02/2026

Publication: 13/03/2026

Abstract:

The National Education Policy of 2020, hereinafter referred to as NEP 2020, places significant emphasis on the imperative of fostering an inclusive educational environment alongside learner-centered pedagogical reforms within the Indian educational landscape, particularly accentuating the necessity to nurture gifted and talented learners through the implementation of differentiated and innovative pedagogical approaches that cater specifically to their unique needs. This research paper undertakes an exploration of pivotal pedagogical innovations that are deemed suitable for the education of gifted individuals within the extensive framework established by NEP 2020. Employing a qualitative review-based methodology, this scholarly paper meticulously examines a variety of strategies that include, but are not limited to, differentiated instruction, project-based learning, enrichment Programme problem-solving pedagogy, competency-based learning, ICT-integrated approaches and socio-emotional support systems. The findings of this study culminate in the conclusion that NEP 2020 lays a robust foundation for the transformation of gifted education in India; however, successful implementation necessitates comprehensive teacher training, flexibility within the curriculum and unwavering institutional support.

Keywords: Gifted learners, NEP 2020, Innovative pedagogy, Differentiated instruction, Enrichment model**1. Introduction**

Gifted learners represent a distinct demographic characterized by exceptional cognitive abilities, heightened creativity and remarkable problem-solving potential, which collectively set them apart from their peers in conventional educational settings. Nonetheless, it is a matter of considerable concern that traditional classroom structures frequently neglect the unique educational requirements of these gifted individuals. The National Education Policy of 2020 signifies a crucial turning point for the Indian educational system as it advocates for a pedagogical framework that is not only competency-based but also flexible and focused on the learner. Within this transformative context, it becomes imperative to thoroughly explore innovative pedagogical approaches that are specifically designed to cater to the distinct needs of gifted students, thereby ensuring the optimal development of their inherent abilities and talents. This paper conducts a comprehensive examination of pedagogical frameworks, strategies and innovations that are intricately aligned with the guiding principles set forth by NEP 2020. It accentuates the pressing need for diverse and enriching learning experiences that not only challenge and stimulate gifted students but also concurrently support their socio-emotional development, which is an essential aspect of their overall growth and educational journey.

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2. Review of Literature

2.1 Gifted Education: Global Perspectives: Prominent international scholars, including Renzulli (2011), Gardner (2018) and Sternberg (2020), underscore the critical importance of enrichment, the concept of multiple intelligences and the cultivation of creative-analytical thinking as foundational pillars for the effective education of gifted learners. The prevailing global trend emphasizes the necessity of implementing a flexible curriculum that incorporates open-ended tasks and various acceleration models designed to meet the diverse needs of gifted students across different educational contexts.

2.2 Gifted Education in India: The educational landscape regarding gifted education in India has historically faced significant limitations and constraints, with previous initiatives such as the National Curriculum Framework of 2005 (NCF-2005), the Rashtriya Madhyamik Shiksha Abhiyan (RMSA) and various Olympiads making earnest attempts to address the phenomenon of giftedness; nevertheless, substantial gaps continue to persist in the systematic identification of gifted individuals and the innovation of pedagogical practices that effectively cater to their unique needs.

2.3 NEP 2020 and Gifted Learners: The National Education Policy of 2020 places a pronounced emphasis on several key educational tenets, including the promotion of competency-based learning, the establishment of foundational literacy and numeracy skills, the incorporation of flexibility within the curriculum, the adoption of multidisciplinary approaches and an overarching commitment to nurturing talent at every conceivable level of the educational hierarchy. Notably, NEP 2020 explicitly acknowledges the presence of gifted learners and advocates for the provision of enrichment opportunities, acceleration of learning and the creation of special opportunities tailored for advanced learners within the educational system.

3. Objectives of the Study

1. To thoroughly explore and delineate the specific pedagogical needs of gifted learners within the unique context of the Indian educational framework.
2. To systematically identify and characterize innovative pedagogical approaches that are in alignment with the guiding principles established by NEP 2020.
3. To propose a comprehensive implementation framework that is designed to facilitate the effective delivery of gifted education in accordance with the recommendations set forth by NEP 2020.

4. Methodology

This study adopts a qualitative, descriptive and review-based research design that is aimed at providing an in-depth analysis of the subject matter. The sources of information utilized in this research include a variety of policy documents, specifically NEP 2020, NCF-2005 and NCF-2023, as well as pertinent research articles that focus on the domain of gifted education and exemplary models of best practices derived from global education systems. The analysis conducted within this study is thematic in nature, focusing on the comparison between the mandates outlined in NEP 2020 and innovative pedagogical frameworks that have been identified as effective in the education of gifted learners.

5. Innovative Pedagogical Approaches for Gifted Learners (NEP 2020 Context)

5.1 Differentiated Instruction: The process of tailoring educational tasks in accordance with the individual readiness, interests and unique learning profiles of gifted learners involves the utilization of advanced content, the implementation of a faster instructional pace and the incorporation of open-ended projects that challenge their cognitive capabilities. NEP 2020 actively encourages the adoption of flexibility in learning pathways, thereby supporting and facilitating the effective implementation of this tailored instructional approach.

5.2 Enrichment Programme: Grounded in Renzulli's Schoolwide Enrichment Model (SEM), the enrichment programs are categorized into three distinct types: Type I, which encompasses exposure experiences designed to broaden students' horizons; Type II, which focuses on skill-building activities aimed at enhancing specific competencies; and Type III, which involves independent research projects that allow students to explore their interests in depth. NEP 2020 strongly promotes experiential and research-based learning modalities, thereby aligning seamlessly with the principles of the SEM.

5.3 Acceleration Models: Acceleration models encompass various strategies such as grade skipping, subject-specific acceleration and the introduction of Advanced Placement-style modules that enable gifted learners to engage with more advanced material at an earlier stage. NEP 2020 fosters an environment that encourages flexible pacing and grants advanced learners the opportunity to progress more rapidly through the curriculum, thereby accommodating their unique learning trajectories.

5.4 Project-Based Learning (PBL): The pedagogical approach known as Project-Based Learning (PBL), which is fundamentally driven by inquiry and encompasses a variety of multidisciplinary tasks, serves as a robust framework for engaging students in meaningful, hands-on experiences that foster a deep understanding of complex concepts. This educational methodology not only encourages the cultivation of creativity and the development of problem-solving skills but also promotes a sense of autonomy among learners as they navigate through their educational journeys with a degree of independence and self-direction. Furthermore, the National Education Policy (NEP) 2020 actively advocates for the implementation of competency-based assessments and the enhancement of creative capacities, thereby rendering Project-Based Learning an exceptionally suitable and effective pedagogical model for contemporary education.

5.5 Problem-Solving and Critical-Thinking Pedagogy: The educational paradigm that places a significant emphasis on the development of problem-solving skills and critical thinking encompasses a variety of components that are essential for addressing the intricate and multifaceted challenges presented by real-world situations, thereby preparing students for life beyond the classroom. This approach incorporates design thinking principles, which encourage creative ideation and innovative solutions, alongside the systematic application of logical reasoning that underpins effective decision-making processes. In alignment with the objectives outlined in the NEP 2020, which places a strong focus on the cultivation of higher-order cognitive skills, this pedagogical framework directly corresponds to the unique requirements and aspirations of gifted learners, ensuring that their educational experiences are both challenging and enriching.

5.6 ICT-Integrated Pedagogy: The integration of Information and Communication Technology (ICT) into the pedagogical framework encompasses a diverse array of tools and resources that significantly enhance the learning experience, including advanced AI-based personalized learning systems, immersive online simulations, as well as coding platforms that foster digital literacy. Additionally, the incorporation of virtual laboratories and Massive Open Online Courses (MOOCs) represents a cutting-edge approach to education that facilitates accessible and flexible learning opportunities for students. The NEP 2020 emphasizes the critical importance of digital literacy, alongside the adoption of blended learning strategies that combine traditional instructional methods with innovative technological solutions, thereby preparing students for success in an increasingly digital world.

5.7 Multidisciplinary and Liberal Education Approach: The multidisciplinary and liberal education approach promotes the execution of cross-curricular projects that effectively integrate various academic disciplines, thereby fostering a comprehensive educational experience that transcends traditional subject boundaries. This approach emphasizes the importance of incorporating elements from the arts, sports and vocational learning into the curriculum, which collectively contribute to the holistic development of students by nurturing diverse skills and talents. The NEP 2020 actively champions the concept of multidisciplinary learning, advocating for its implementation not only at the primary and secondary school levels but also extending its benefits to higher education institutions, thereby establishing a cohesive educational trajectory.

5.8 Socio-Emotional Learning (SEL): Gifted learners often encounter a range of unique challenges that may include heightened over excitabilities, pronounced emotional sensitivity and, in some cases, social isolation, all of which can significantly impact their overall educational experience and personal well-being. In recognition of these challenges, the implementation of socio-emotional learning (SEL) programs is of paramount importance, as these initiatives are specifically designed to ensure that students achieve emotional balance, cultivate resilience and enhance their overall well-being throughout their educational journey.

6. Finding

1. The National Education Policy (NEP) 2020 provides substantial support for the field of gifted education through its promotion of flexible, competency-based and multidisciplinary educational frameworks that cater to the diverse needs of advanced learners.
2. The pedagogical approaches that are differentiated, project-based, enrichment-oriented and supported by Information and Communication Technology (ICT) are specifically tailored to effectively meet the advanced educational needs of gifted learners, ensuring that they receive appropriate challenges and opportunities for growth.
3. The cultivation of teacher capacity is an essential component for the successful implementation of these educational strategies, as well-trained educators are crucial to facilitating effective learning experiences for gifted students.
4. The availability of a flexible curriculum and sufficient resources is of critical importance for fostering innovative pedagogical practices that can adapt to the evolving needs of students and the demands of a rapidly changing educational landscape.

7. Discussion

The analysis presented within this paper firmly establishes that the NEP 2020 creates a conducive and enabling environment for the advancement of gifted education in India. However, it is imperative to address the practical challenges that currently exist, including limited opportunities for teacher training, the rigidity of the existing curriculum and the absence of standardized processes for identifying gifted individuals. Consequently, it is essential for pedagogical practices to transition from traditional rote learning methodologies towards more dynamic approaches that emphasize creativity, research, exploration and effective problem-solving strategies.

Moreover, in order to ensure equitable access to gifted education, it is crucial to adopt an inclusive framework that recognizes and identifies talent across all socio-economic backgrounds, thereby dismantling barriers that may prevent deserving students from receiving the support and resources they require.

8. Recommendations

1. It is recommended that educational institutions establish dedicated gifted education cells within both schools and universities, which would serve as specialized units focused on the needs and development of gifted learners.
2. There is a pressing need to provide comprehensive training for educators in strategies related to differentiation, project-based learning and enrichment methodologies, thereby equipping them with the necessary skills to effectively support gifted students.
3. The development of standardized tools for the identification of giftedness is essential to ensure that students are recognized and provided with appropriate educational opportunities tailored to their unique abilities.
4. It is advisable to create advanced learning modules that are aligned with the objectives set forth in the NEP 2020, thereby ensuring that gifted learners receive challenging and stimulating educational experiences.
5. The provision of adequate digital resources is critical to facilitating personalized learning pathways that cater to the individual needs and preferences of gifted learners, thereby enhancing their engagement and success in their educational pursuits.
6. The incorporation of socio-emotional learning (SEL) into the educational framework is vital for supporting the overall well-being of gifted learners, as it addresses the emotional and social dimensions of their development.

9. Conclusion

The landscape of gifted education in India is currently at a pivotal and transformative juncture, particularly with the recent introduction of the National Education Policy (NEP) 2020, which presents new opportunities for enhancing the educational experiences of gifted students. By embracing and implementing innovative pedagogical practices—including differentiated learning strategies, enrichment programs, project-based methodologies and the integration of Information and Communication Technology (ICT)—India has the potential to more effectively nurture its most talented individuals. However, the successful implementation of these

strategies necessitates robust institutional support, a high level of teacher competence and a flexible curriculum that can adapt to the diverse needs of students. When these strategies are executed with diligence and intention, the NEP 2020 has the capacity to ensure that gifted learners realize their full potential and make meaningful contributions to the development and progress of the nation.

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