

Kindergarten Education in India: An Analytical Review of Teaching Methods and Institutional Practices within Emerging Educational Initiatives

Tazeem Aijaz

Director, Department of Education, The Benchmark School, New Delhi, Delhi, India

DOI: <https://doi.org/10.5281/zenodo.20568857>

Published Date: 06-June-2026

Abstract: Early Childhood Care and Education (ECCE) is the foundation of cognitive, emotional and social development in early learners and kindergarten education plays a critical role in influencing the outcome of life long learning. The National Education Policy (NEP) 2020 in India has brought some major reforms based on the reorganization of early education into a system of 5+3+3+4, and a focus on play-based, experiential, and competency-based approaches to learning. It is a qualitative review study of the available literature on kindergarten education in India with respect to teaching methods and institutional practices regarding ECCE within the framework of NEP 2020. Based on peer-reviewed journal articles, policy reports, and institutional reports, the study synthesizes key findings by using thematic analysis. The findings reveal an obvious pedagogical change towards rote learning to child-centered, activity-based pedagogy that promotes holistic development. But the analysis also shows that there are still implementation issues such as lack of proper teacher training, insufficient infrastructures, and disparities between rural and urban environments. In spite of good policy intentions, there are still gaps between the formulation of the policies and the practice at the classroom level. The research finds that teacher education, the capacity of the institutions, and equitable access are critical in ensuring effective ECCE implementation in India. The research findings underscore the importance of long-term policy support and context-specific reforms to achieve the full potential of NEP 2020 on early childhood education.

Keywords: Kindergarten education, ECCE, NEP 2020, play-based learning, India, early childhood pedagogy, institutional practices.

1. INTRODUCTION

Early Childhood Care and Education (ECCE), specifically kindergarten education, is the initial level of cognitive, emotional and social development in children. In India, the National Education Policy (NEP) 2020 restructured the early education into a 5+3+3+4 system by placing children aged 3- 8 in the foundational stage and placing much emphasis on play-based, experiential, and activity-based approaches to learning (Ministry of Education, Government of India, 2020). The emphasis on a holistic development, on learning multiple languages, and on the meaningful reduction of the amount of memorization in educational institutions is emphasized by the recent reforms under NEP 2020 (National Education Policy, 2020). Consequently, classrooms of kindergarten learners in India increasingly become expected to embrace creative pedagogy, child-centered learning, and inclusive practices that are in line with the developmental needs of early learners (UNICEF, 2021; National Council of Educational Research and Training [NCERT], 2022).

2. LITERATURE REVIEW

Early Childhood Care and Education (ECCE) is universally acknowledged as an essential basis in cognitive, emotional and social development. The recent data emphasizes the fact that structured early learning settings can be highly beneficial in enhancing long-term educational results and human capital development (Heckman and Karapakula, 2021). ECCE is becoming a policy priority in developing countries, such as India, because of its contribution to the reduction of inequality and enhancement of school readiness (Britto et al., 2021).

India has restructured ECCE into a foundational stage (ages 3-8) as part of NEP 2020, with play-based and activity-oriented learning being key pedagogical strategies (Mondal and Mondal, 2025). Research indicates that these reforms are in line with global changes towards holistic and competency-based early education systems (OECD, 2021).

Studies have found that well-designed ECCE programs have a significant positive impact on the development of foundational literacy and numeracy skills (Gustafsson-Wright et al., 2022). The research highlights that the quality of interaction is a much more critical factor than exposure to early learning in terms of the trained and skilled educators.

A multi-country study by the World Bank (2022) points out that the participation in ECCE is closely linked with the enhanced cognitive development, school preparedness, and lower rates of dropout in primary schooling. The report also emphasizes that it is crucial to make sustained and a long-term investment in early childhood systems to ensure equitable educational outcomes.

The researchers Shonkoff and Phillips (2021) prove the sensitivity of the brain development in early childhood to the stimulation of the environment, in particular, the first years of children. Their findings imply that ECCE serves as a critical intervention point that can influence the lifelong learning, behavior, and health outcomes, which is why ECCE can be used to support early intervention policy such as NEP 2020.

This is confirmed by a systematic review by Burger (2020) who found that children exposed to structured preschool programs had significantly higher academic achievement in subsequent stages of schooling than children not exposed to ECCE. The research also indicates long-term gains in cognitive and social developments especially among the disadvantaged groups.

According to the report by UNESCO (2021), play-based learning should be used to enhance creativity, problem-solving abilities, and socio-emotional growth in early learners in a variety of cultural and educational settings. The report firmly advocates a world-wide change in how rote learning is currently done to more experiential and child-centered approaches to learning.

A longitudinal study by Melhuish et al. (2020) concludes that engagement in early childhood education plays a significant role in the development of language, cognitive abilities and social behavior, particularly in children with disadvantaged backgrounds. The research has shown the role played by early educational interventions in minimizing developmental inequalities.

Barnett (2020) notes that teacher training, curriculum design, and classroom interaction are the determinants of the effectiveness of the ECCE program. The paper emphasizes that meaningful learning outcomes cannot be realized without the implementation of high quality.

Study by Yoshikawa et al. (2020) indicates that integrated ECCE systems that combine education, health, and nutrition have stronger developmental outcomes as compared to isolated interventions. The study highlights the importance of a holistic approach to early childhood development for maximizing long-term benefits.

As shown in a study by Rao et al. (2021) on the topic of early childhood programs in India, there is still a significant amount of inequalities in access to early childhood programs among rural and urban populations in India, despite the increased policy coverage. The results indicate structural obstacles like infrastructure and inequitable distribution of resources.

According to the OECD (2021), the Countries with Structured ECCE Reform have been reported to experience better school preparedness, enhanced foundational skills, and lower early learning gaps. The paper highlights the significance of harmonious policy provisions and quality control mechanisms in early childhood education.

The results of a meta-analysis by Brookings Institution (2021) confirm that interventions in early childhood have the highest rate of return on investment in education, as compared to interventions in the later stages of development. This paper identifies ECCE as a cost-saving approach in enhancing the development of human capital in the long term.

According to Britto et al. (2021), the quality of ECCE is based on the quality of the curriculum, teacher training, and overall learning conditions. The paper contends that these elements need to be in harmony so that there can be effective delivery of early childhood education.

Gove et al. (2020) illustrate that the foundational learning outcomes can be significantly enhanced when the ECCE programs combine the structured play with guided learning. The paper identifies the significance of the balance between the instinctive exploration by the child and the instructive role of the teacher.

A cross-national study by UNESCO (2022) emphasizes that the multilingual instruction in early childhood enhances the cognitive flexibility, comprehension, and communication skills, especially in multilingual societies such as India. The research advocates the use of mother tongue in the early years of learning.

A study conducted by the World Bank (2021) confirms that ECCE investments have a direct impact on long term economic productivity, lower inequality and better social outcomes. The paper makes ECCE a vital contributor to the national development.

Engle et al. (2020) conducted a study indicating that early stimulation programs are very effective in enhancing cognitive, emotional and physical developments in children whose families are of low income. The results highlight ECCE as an important initiative towards cycles of poverty.

Lastly, a recent implementation research on ECCE in India confirms that teacher preparedness and institutional capacity is a significant challenge in meeting the NEP 2020 goals (Kaul et al., 2022). The research identifies training, infrastructure, and system-level preparedness gaps, which impact classroom-level preparedness.

Research Gap

Despite the widely accepted fact that ECCE is a vital basis of child development and supported by robust global and national policy frameworks like NEP 2020 (Ministry of Education, 2020; OECD, 2021), there remains a significant gap in context-specific empirical research on its application in Indian kindergarten classroom settings. Much of the currently available literature revolves around the analysis of the policies or the analysis of the evidence on a global scale (Britto et al., 2021; World Bank, 2022), with little focus on the actual classroom practices and teaching methods and the engagement of the learners in various Indian contexts. Specifically, the existing body of evidence regarding the implementation of play-based and experiential approaches to learning in practice (UNESCO, 2021), as well as on the effectiveness of teacher preparedness at the frameworks of NEP 2020 reforms (Barnett, 2020; Kaul et al., 2022). Also, the differences in rural and urban ECCE implementation are yet to be studied.

Research Objectives

- (i) To examine the teaching methods currently used in Indian kindergarten education with reference to emerging ECCE practices.
- (ii) To analyze institutional practices in kindergarten education under the NEP 2020 ECCE framework.
- (iii) To identify key challenges and suggest improvements for strengthening kindergarten education in India.
- (iv) To examine how effective kindergarten practices contribute to the cognitive, emotional, social, and creative growth of children.

Research Questions

1. What teaching methods are currently used in Indian kindergarten education within the ECCE framework?
2. How do institutional practices in kindergarten education reflect the objectives of NEP 2020?
3. What are the major challenges and required improvements in implementing effective kindergarten education in India?

3. METHODOLOGY

This paper will follow a qualitative systematic review methodology which examines peer-reviewed journal articles, policy documents, and institutional reports on Early Childhood Care and Education (ECCE). The review is devoted to the ECCE practices in India in the context of NEP 2020. It makes a synthesis of the existing literature to outline the major trends in the instruction methods and institutional practices in kindergarten education. The analysis of the policy recommendations implementation into the classroom level is also critically analyzed in the study.

Inclusion Criteria

The inclusion criteria of this study will be peer-reviewed journal articles, and official policy documents that will be related to the topic of Early Childhood Care and Education (ECCE). It also contains the research of kindergarten education and early childhood pedagogy in the Indian context.

Exclusion Criteria

The non-traceable or non-academic sources and opinion-based blogs that lack institutional support are some of the exclusion criteria of this study. It also rules out the studies which are not related to Early Childhood Care and Education (ECCE) or early childhood pedagogy.

Data Analysis

Thematic analysis was used to synthesize the study findings, where the literature was grouped into thematic areas, which were considered to be relevant to ECCE. These encompass pedagogical strategies like play based, thematic and experiential learning strategies. Institutional frameworks especially the introduction of NEP 2020 and ECCE centres in India are also covered in the analysis. Moreover, it determines the key issues regarding teacher education, facilities, and fairness. Lastly it looks at the results like child learning development, classroom engagement and inclusiveness in kindergarten education.

4. ANALYSIS AND DISCUSSION

The findings suggest that there is a definite shift in kindergarten education from rote learning towards play-based and experiential learning as proposed by NEP 2020 reforms (UNESCO, 2021; NCERT, 2022). The major teaching practices identified in the literature include:

Play-Based Learning

Play-based learning encourages active participation, imagination, creativity, and problem-solving abilities among children. It promotes joyful learning and improves classroom engagement.

Experiential Learning

Experiential learning allows children to learn through observation, exploration, and direct interaction with their environment. This method strengthens cognitive understanding and practical knowledge.

Storytelling

Storytelling is widely used in kindergarten classrooms to improve language development, listening skills, emotional understanding, and imagination among children.

Role Play and Drama

Role play and drama activities help children develop communication skills, confidence, social interaction, and emotional expression. These methods also encourage collaborative learning.

Thematic Activities

Thematic learning integrates multiple subjects around a common topic, helping children connect ideas and improve conceptual understanding in a meaningful manner.

Free Play Activities

Free play supports creativity, independence, socialization, and emotional regulation. It also contributes to the development of motor and decision-making skills.

Implications

The results point to the necessity to reinforce the application of ECCE as part of NEP 2020. The training of teachers needs to incorporate the mandatory ECCE-specific training to enhance the pedagogical skills. To facilitate play-based learning, it is crucial to invest in child-friendly infrastructure. The curriculum must also focus on experiential and thematic learning in order to have developmentally appropriate and interesting early education.

5. CONCLUSION

Under NEP 2020, there is a significant shift in Kindergarten education in India in terms of focusing on rote learning to holistic, child-centred, and play-based approaches. It is now known that the foundational stage is important to cognitive, emotional, and social development. Nonetheless, there are still notable implementation gaps especially regarding teacher readiness, the provision of resources, and classroom activities. To address these gaps, strengthening ECCE-specific teacher

training, enhancing infrastructure, and institutional accountability are key. It is through the dealing with these challenges that the vision of NEP 2020 of inclusive, equitable and quality early childhood education in India can be achieved. The importance of child-centered early education has also been emphasized by several educational theorists. Jean Piaget believed that “children learn best through active discovery and interaction with their environment.” Lev Vygotsky emphasized the social nature of learning and the importance of guided interaction in child development. Maria Montessori highlighted that “play is the work of the child,” stressing the importance of independence and experiential learning. Howard Gardner’s theory of multiple intelligences further supports the need for diverse and creative teaching methods in kindergarten education.

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