

Manuscript ID:  
IJEBAMPSR-2025-0202033

Volume: 2

Issue: 2

Month: April

Year: 2025

E-ISSN: 3065-9140

**Submitted:** 16-Jan-2025  
**Revised:** 22-Feb-2025  
**Accepted:** 25-Mar-2025  
**Published:** 30-Apr-2025

**Address for correspondence:**  
Manoj Maruti Dongare  
Assistant Professor, Department of  
Mechanical, Vishwaniketan's  
Institute of Management  
Entrepreneurship and Engineering  
Technology (ViMEET),  
Kumbhivali, Tal: Khalapur, Dist:  
Raigad, Maharashtra  
Email:  
[manojdongare@gmail.com](mailto:manojdongare@gmail.com)

DOI: 10.5281/zenodo.15833846

DOI Link:  
<https://doi.org/10.5281/zenodo.15833846>



**Creative Commons (CC BY-NC-SA 4.0):**  
This is an open access journal,  
and articles are distributed under  
the terms of the Creative  
Commons Attribution-  
NonCommercial-ShareAlike 4.0  
International Public License,  
which allows others to remix,  
tweak, and build upon the work  
noncommercially, as long as  
appropriate credit is given and the  
new creations are licensed under  
the identical terms.

#### How to Cite this Article:

Pulate, R. R., Dighe, J. R., & Dongare, M. M. (2025). Transforming Learning in India: NEP 2020 and the Vision of Education 5.0. *International Journal of Economics, Business, Accounting, Agriculture and Management Towards Paradigm Shift in Research (IJEBAMPSR)*, 2(2), 174–182.  
<https://doi.org/10.5281/zenodo.15833846>

# Transforming Learning in India: NEP 2020 and the Vision of Education 5.0

**Rashmi Ramesh Pulate<sup>1</sup>, Dr. Jayshree R. Dighe<sup>2</sup>, Manoj Maruti Dongare<sup>3</sup>**

<sup>1</sup>Research Scholar, Department of Economics, Padmashri Vikhe Patil College of Arts, Science and Commerce, Pravaranagar, Tal: Rahata, Dist: Ahmednagar, Maharashtra

<sup>2</sup>Shirdi Sai Rural Institute's Arts, Science and Commerce College, at Pimplas Rahata Tal: Rahta Dist: Ahilyanagar, Maharashtra

<sup>3</sup>Assistant Professor, Department of Mechanical, Vishwaniketan's Institute of Management Entrepreneurship and Engineering Technology (ViMEET), Kumbhivali, Tal: Khalapur, Dist: Raigad, Maharashtra

## Abstract

*India's National Education Policy (NEP) 2020 is a groundbreaking initiative designed to reshape the country's education system by emphasizing accessibility, inclusivity, affordability, and innovation. It introduces a multidisciplinary learning approach that encourages critical thinking, skill development, and research-based education. Alongside this, Education 5.0 brings a technology-integrated, human-centered model that prepares students for the demands of a rapidly evolving digital world. Together, these frameworks aim to bridge the gap between traditional learning and industry expectations. Despite their potential, several challenges hinder effective implementation. Many institutions lack the necessary infrastructure, while educators require better training to integrate digital tools into their teaching methods. Additionally, students and parents have varying levels of awareness and readiness, creating disparities in adoption. Technological accessibility also remains a key issue, particularly in rural areas, where the digital divide limits equal learning opportunities. Governance plays a crucial role in ensuring that policies are effectively executed, yet inconsistencies in stakeholder engagement often slow progress. This paper explores the connection between NEP 2020 and Education 5.0, highlighting key challenges related to teacher preparedness, student learning outcomes, digital infrastructure, and governance. It identifies gaps in research and examines practical strategies for overcoming barriers to integration. By addressing these issues through targeted policies, better teacher training, and stronger collaboration between public and private sectors, India can create an education system that is modern, inclusive, and globally competitive. The success of these reforms will depend on how well they are implemented, how effectively stakeholders collaborate, and how quickly institutions can adapt to the ever-changing demands of education and the workforce. If these challenges are met, India will be well-positioned to prepare future generations for a world driven by technology, innovation, and critical thinking.*

**Keywords:** NEP 2020, Education 5.0, AI in Education, Holistic Learning, Digital Divide, Workforce Development, Educational Innovation, Governance

## Introduction

### A. Background: Contextualizing NEP 2020 and Its Key Objectives

India's National Education Policy (NEP) 2020 marks a major shift in the country's approach to learning, aiming to make education more inclusive, affordable, and innovative. The policy focuses on providing equal opportunities for all students, improving the quality of education, and encouraging research-driven learning. A strong emphasis is placed on early childhood education, better governance, and hands-on learning methods that nurture creativity and critical thinking. By prioritizing these aspects, NEP 2020 seeks to prepare students for real-world challenges and a rapidly evolving global landscape.

### **B. Education 5.0: Definition and Relevance**

Education 5.0 introduces a modern approach to learning that blends technology with a strong human focus. It encourages interdisciplinary education, fosters critical thinking, and integrates tools like artificial intelligence to enhance the learning experience. More than just adopting new technologies, this model promotes global awareness, collaboration, and lifelong learning. By addressing digital inequalities and prioritizing skill development, Education 5.0 aims to equip India's workforce with the adaptability and expertise needed to thrive in an ever-evolving economy.

### **C. Research Gap: Identifying Knowledge Gaps**

While NEP 2020 and Education 5.0 present a bold vision for the future of learning, several challenges still need to be addressed.

**Implementation Readiness:** Many institutions are still adapting to the structural and technological changes required to effectively implement these reforms.

**Teacher Training:** Educators need better access to professional development programs to enhance their digital literacy and teaching methods.

**Student Impact:** It is essential to assess how these changes affect academic performance and students' overall learning experience.

**Technological Gaps:** Reliable digital infrastructure and accessibility remain a concern, particularly in rural and underserved areas.

**Policy Execution:** Stronger oversight and collaboration among stakeholders are needed to ensure these policies are effectively implemented and deliver meaningful results.

### **Problems**

As education policies continue to evolve, it is crucial to evaluate how these changes affect key stakeholders, including students, teachers,

administrators, and parents. NEP 2020 and Education 5.0 bring significant shifts by incorporating technology, skill-based learning, and interdisciplinary methods. However, the level of awareness, acceptance, and readiness to implement these reforms varies among different groups.

This study explores how familiar people are with these policies, their interest in learning more, and their confidence in applying them. Using survey data collected via Google Forms, the research examines perspectives across various demographics, including gender and professional roles. Additionally, it identifies major challenges such as digital literacy gaps, infrastructure limitations, and governance issues—factors that play a critical role in ensuring the success of these education reforms.

### **Objectives**

This study takes a practical, data-driven look at how India's education system is evolving and how different groups are adjusting to these changes. The survey results highlight both the strengths and the areas that need improvement while showing the potential of these reforms to shape the future of learning.

The main goals of this study are:

1. To understand how well students, teachers, administrators, and parents are aware of NEP 2020 and Education 5.0.
2. To explore whether stakeholders are interested in learning more about these policies and how open they are to adopting new approaches.
3. To measure how confident educators, school leaders, and students feel about putting these changes into practice.
4. To identify the biggest hurdles—such as a lack of digital resources, teacher training gaps, and accessibility issues—that could slow down implementation.
5. To compare different perspectives based on gender and professional roles to see how awareness and preparedness vary.
6. To provide practical insights that can help policymakers and educators make informed decisions for smoother implementation.

### **Scope & Limitation**

This study seeks to explore how NEP 2020 and Education 5.0 are being implemented in India and their overall impact on the education system. It examines the perspectives of key stakeholders—educators, students, parents, and

administrators—assessing their level of awareness, readiness, and willingness to embrace these changes. The study highlights essential aspects such as the role of technology, policy implementation, and skill development in shaping the future of education.

However, certain limitations need to be considered:

- **Limited Scope:** The study is based on data from specific regions, which may not fully capture the diverse educational landscape across India.
- **Self-Reported Data:** Since the study relies on survey responses, the findings could be influenced by individual biases or subjective interpretations.
- **Policy Changes:** NEP 2020 is still being rolled out, and ongoing modifications could impact the relevance of the findings over time.
- **Digital Divide:** Unequal access to technology between urban and rural areas may affect the practical implementation of Education 5.0.
- **Varying Participation Levels:** Differences in engagement among policymakers, educators, and institutions might limit how broadly the results can be applied.

Despite these challenges, this study offers meaningful insights into both the obstacles and opportunities surrounding NEP 2020 and Education 5.0. These findings can help guide future research and inform policy decisions aimed at improving India's education system.

### Data & Research Methodology

This study follows a quantitative research approach, using surveys and structured questionnaires to gather insights from teachers, students, parents, and administrators. The survey aimed to measure participants' familiarity with, interest in, and confidence in implementing NEP

2020 and Education 5.0. Respondents rated various aspects of these policies on a scale from 0 to 5, allowing for a clear comparison of different perspectives.

The research was conducted through the following steps:

- **Survey Design:** A well-structured questionnaire was created to assess opinions, awareness, and preparedness related to NEP 2020 and Education 5.0.
- **Sampling Method:** A purposive sampling technique was used to ensure diverse participation from educators, administrators, students, and parents.
- **Data Collection:** Responses were gathered via Google Forms, making it easier to reach a broad audience.
- **Data Analysis:** Statistical methods were applied to process the collected data, helping to identify trends and draw meaningful comparisons.

### Statistics Used

The survey findings were analyzed using statistical methods to compare responses across different groups, including teachers, administrators, students, and parents. The study also examined gender-based differences to see if perspectives varied between male and female respondents.

Participants rated different aspects of NEP 2020 and Education 5.0 on a scale from 0 to 5. This helped identify the strengths and weaknesses of both policies and provided insights into which aspects were considered most important by different groups.

By breaking down the data in this way, the study offers a clearer understanding of how these education reforms are being received and highlights areas that may need further attention.

**Table1:** Survey Summary: NEP 2020 and Education 5.0 Survey Analysis

Category	NEP 2020 (Avg Score)	Education 5.0 (Avg Score)
Familiarity	4.1	3.85
Interest in Learning More	3.24	3.96
Importance of Collaboration	4.11	3.82
Confidence in Implementation	4.2	3.73
Importance of Technology Access	3.96	3.94
Professional Development	3.74	3.96

**Table 2:** Survey Summary: Teachers, Education Administrators, Students and Parents

Occupation	Familiarity with NEP (Avg)	Interest in NEP (Avg)	Confidence in NEP (Avg)	Familiarity with Edu 5.0 (Avg)	Interest in Edu 5.0 (Avg)	Confidence in Edu 5.0 (Avg)
Teacher	3.92	4.5	4.3	3.8	4.1	4
Education Administrator	1	5	5	1	5	5
Student	3.4	4	3.6	3	3.9	3.8
Parent	3	4	3.5	2.5	3.5	3

**Table 3:** Survey Summary: Male vs. Female Respondents

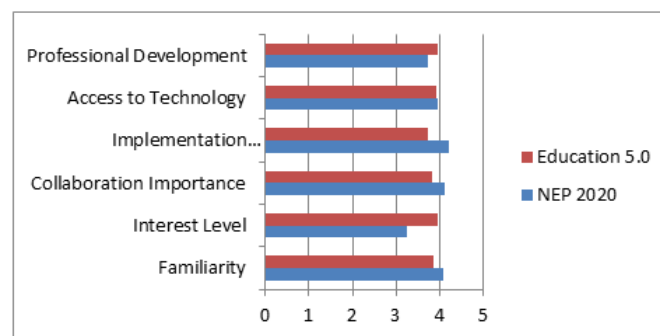
Gender	Familiarity with NEP (Avg)	Interest in NEP (Avg)	Confidence in NEP (Avg)	Familiarity with Edu 5.0 (Avg)	Interest in Edu 5.0 (Avg)	Confidence in Edu 5.0 (Avg)
Male	3.56	4.11	3.89	3.11	3.78	3.67
Female	3.8	4.1	3.95	3.2	4	4.1

## Results

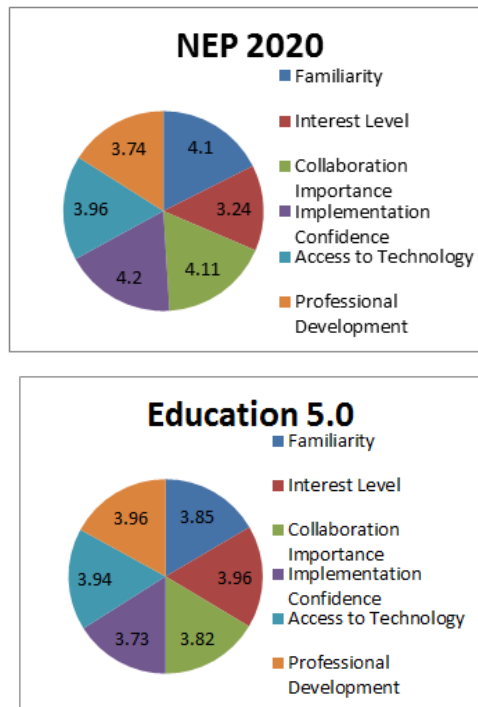
### 1. The comparative analysis of NEP 2020 and Education 5.0

The analysis highlights differences in awareness, confidence, and perceived significance between the two education frameworks. While both NEP 2020 and Education 5.0 prioritize collaboration, technology integration, and professional growth, there are noticeable variations in how familiar people are with each and their level of interest.

NEP 2020 has been discussed more extensively and is already in the process of being implemented, leading to higher confidence in its execution. On the other hand, Education 5.0 has sparked curiosity, with many showing a strong interest in understanding its full potential. However, for it to be widely adopted, more awareness campaigns and structured training programs are needed. By addressing these gaps with well-planned initiatives, stakeholders can better transition into a modern, technology-driven education system that benefits both students and educators.



**Figure 1:** Comparing familiarity, interest, and confidence levels between NEP 2020 and Education 5.0.

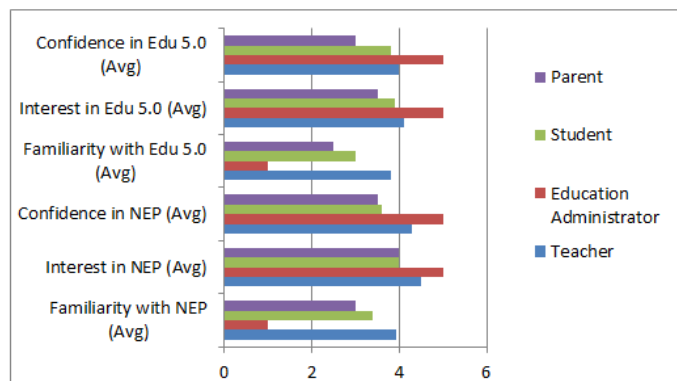


**Figure 2:** Distribution of key factors like collaboration importance and teacher preparedness.

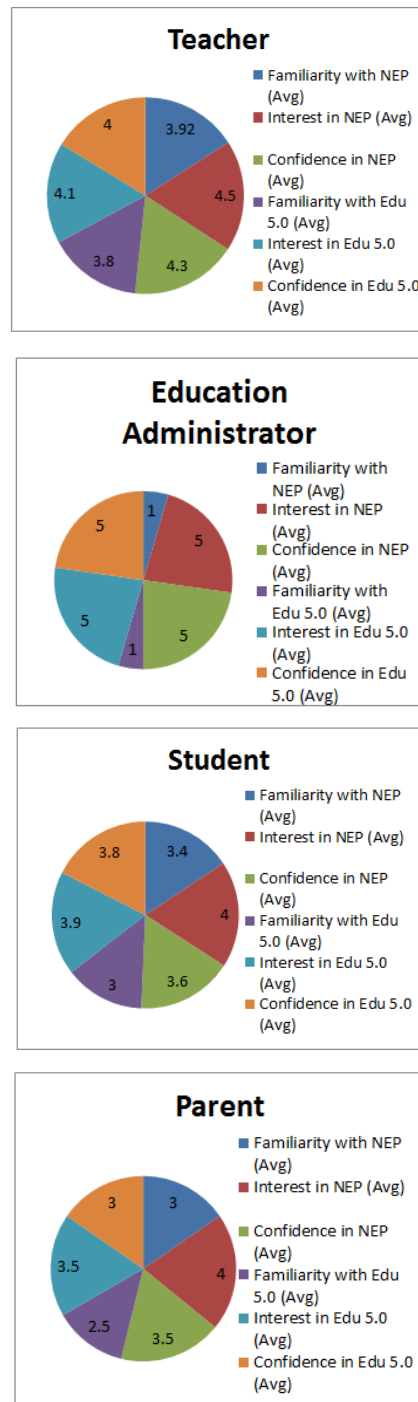
## 2. The stakeholder-based analysis

It highlights differences in perceptions among teachers, education administrators, students, and parents. Teachers and administrators show the highest levels of familiarity and confidence, reflecting their active role in policy implementation. However, parents and students exhibit relatively lower familiarity and confidence, indicating a need for more awareness campaigns and engagement efforts. Interestingly, education administrators show extreme responses, with either

very high or very low ratings, suggesting variations in policy exposure across institutions. Students display a moderate level of interest but lower confidence, emphasizing the need for more student-centered approaches and support mechanisms. Strengthening collaboration among stakeholders through workshops, training programs, and interactive discussions can foster a more inclusive and effective implementation of educational reforms.



**Figure 3:** Comparative Analysis of Stakeholder Perceptions on NEP 2020 and Education 5.0



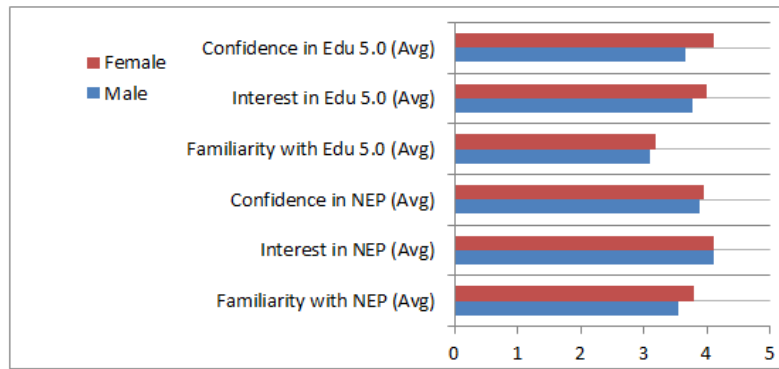
**Figure 4:** Stakeholder Perceptions of NEP 2020 and Education 5.0

### 3. The gender-based analysis

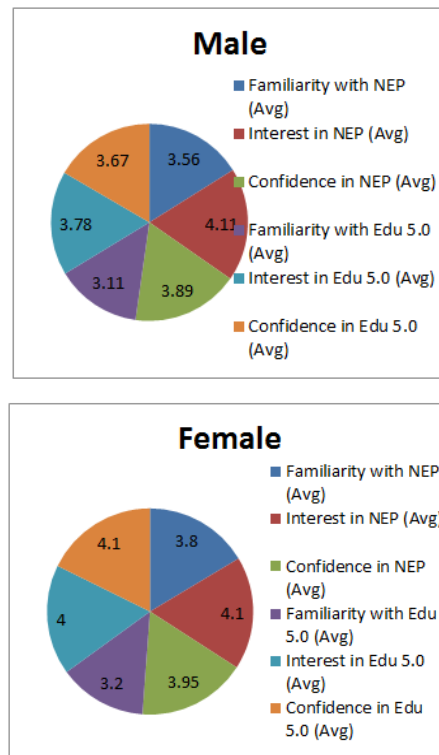
It indicates differences in familiarity, interest, and confidence regarding NEP 2020 and Education 5.0. Female participants generally exhibit higher familiarity and confidence in both frameworks compared to their male counterparts. However, the interest in learning more about these policies remains relatively balanced across genders.

This suggests that while both male and female participants recognize the importance of these educational reforms, females may be more proactive in understanding and adopting these changes. Addressing gender-specific learning preferences and barriers can further enhance engagement and ensure equitable participation in education transformation initiatives.





**Figure 5:** Gender-Based Analysis of Familiarity, Interest, and Confidence in NEP 2020 and Education 5.0



**Figure 6:** Comparison of Gender-Based Perception of NEP and Edu 5.0

## Discussion

### A. Implementation Challenges and Readiness

Bringing new education policies like NEP 2020 and Education 5.0 into practice offers both exciting opportunities and notable challenges. While awareness of these frameworks is high, actual readiness varies across different groups. Educators and administrators tend to feel more prepared, while students and parents often struggle with understanding and adapting to the changes. Several factors influence how smoothly these reforms are adopted. Access to proper training, clear guidelines, and institutional support play a key role in ensuring a successful transition. However, resistance to change, lack of awareness, and limited access to technology continue to be

major hurdles. To make implementation more effective, targeted programs that address these concerns, provide essential resources, and offer ongoing training are necessary.

### B. Teacher Training and Digital Literacy

Teachers are at the heart of any education reform, and their ability to adapt to new teaching methods is crucial. While many educators are eager to embrace change, their success depends largely on how well they understand and use digital tools in the classroom. Switching to technology-driven education requires more than just basic knowledge of digital platforms; it demands active integration of these tools into everyday teaching. Structured training, interactive workshops, and hands-on learning experiences can help bridge the gap. In

addition, strong institutional support, collaboration among peers, and mentorship programs can boost teacher confidence and ensure they are fully prepared to implement modern teaching approaches.

### C. Student Learning Outcomes and Perceptions

The true success of any education reform lies in how well it enhances student learning. While students generally show curiosity and enthusiasm for new learning methods, their confidence in adapting to these changes varies. For education reforms to truly benefit students, teaching methods, curriculum design, and assessment strategies need to align with their needs. Personalized learning, interactive group projects, and hands-on activities can make lessons more engaging and improve retention. Additionally, access to quality resources, continuous teacher support, and clear feedback mechanisms play a crucial role in improving student performance and skill development.

### D. Technological Infrastructure and Access

Technology has become a fundamental part of modern education, but access to it is far from equal. While most people recognize the importance of digital learning, gaps in internet connectivity, device availability, and institutional support continue to create challenges. Schools and colleges that invest in strong digital infrastructure such as e-learning platforms, smart classrooms, and online libraries tend to experience a smoother transition to modern education methods. To close the digital divide, initiatives like subsidized technology programs, government investments, and private-sector partnerships are essential. Ensuring all students have access to digital learning tools is key to making these reforms successful.

### E. Governance and Stakeholder Engagement

For any education policy to be implemented effectively, it requires the support and involvement of all key players policymakers, educators, students, parents, and industry leaders. The most successful policies are those that encourage open communication, regular feedback, and active participation from everyone involved. One major challenge is making sure that all voices, including those from marginalized communities, are heard in decision-making. Transparent discussions, frequent stakeholder meetings, and inclusive policy-making help create a more responsive education system. Additionally, strong

accountability measures and ongoing evaluations ensure that these reforms continue to meet the changing needs of students and educators.

### Conclusions

The National Education Policy (NEP) 2020 and Education 5.0 together represent a bold step toward transforming India's education system. By promoting a well-rounded, technology-driven, and multidisciplinary approach, these initiatives aim to equip students with the skills needed to thrive in a rapidly changing world. NEP 2020 focuses on developing critical thinking, inclusivity, and hands-on learning, ensuring that education is more than just theoretical knowledge. Education 5.0 takes this a step further by incorporating advanced technologies like Artificial Intelligence (AI), the Internet of Things (IoT), and virtual learning platforms to create a more interactive and future-ready learning environment.

By bridging the gap between traditional education and industry demands, these reforms encourage innovation and boost employability. However, their success will largely depend on how well they are implemented, the level of collaboration among educators, policymakers, and industries, and the ability to adapt to the evolving needs of the 21st century.

### Recommendations

- Develop targeted awareness programs for students and parents.
- Enhance teacher training in digital literacy and innovative pedagogy.
- Strengthen technological infrastructure in schools.
- Promote public-private partnerships for digital access.
- Ensure stakeholder engagement in policy implementation.

### Acknowledgment

I sincerely thank Dr. Jayshree R. Dighe and Mr. Manoj Maruti Dongare for their valuable guidance and support in this research. Their insights and expertise greatly contributed to shaping this study on NEP 2020 and Education 5.0. I truly appreciate their mentorship and encouragement throughout this work.

### Financial support and sponsorship

Nil.



### Conflicts of Interest

The authors declare that there are no conflicts of interest regarding the publication of this paper.

### References:

1. D. Karan, "Impact of New Education Policy on Indian Economy," *International Journal of Business and Management Invention (IJBMI)* ISSN, vol. 13, no. 7, pp. 106–110, Jul. 2024, doi: 10.35629/8028-1307106110.
2. D. Priyanka, *Analysing the Implementation of the National Education Policy 2020: Challenges and Opportunities in Transforming India's Education Landscape*, 1st ed., vol. 01. Kolhapur: Bhumi Publishing, 2024. [Online]. Available: <https://www.researchgate.net/publication/378876916>
3. M. P. B and Dr. A. N, "A Systematic Review on Indian Education System & NEP 2020," *International Journal of Research Publication and Reviews*, vol. 5, no. 1, pp. 1858–1865, Jan. 2024, doi: 10.55248/gengpi.5.0124.0228.
4. C. Mallik, "Critical Analysis of Nep 2020 And Its Implementation," *International Journal of Novel Research and Development*, vol. 8, no. 6, pp. 1877–1880, Jun. 2023, [Online]. Available: [www.ijnrd.org](http://www.ijnrd.org)
5. S. Adhav, "Impact of National Education Policy on the Education System in India," *International Journal of Novel Research and Development*, vol. 8, no. 12, pp. 499–509, Dec. 2023, [Online]. Available: [www.ijnrd.org](http://www.ijnrd.org)
6. A. Tawar and G. Kamble, "Unraveling Holistic and Multidisciplinary Education Strategies for Varied Career Paths: An Insight into NEP 2020," *Aayushi International Interdisciplinary Research Journal*, no. 130, pp. 13–19, Nov. 2023, [Online]. Available: [www.aiirjournal.com](http://www.aiirjournal.com)
7. U. Patankar, "Vocational Education in India With Reference to NEP 2020," *Aayushi International Interdisciplinary Research Journal*, no. 130, pp. 20–23, Nov. 2023, [Online]. Available: [www.aiirjournal.com](http://www.aiirjournal.com)
8. P. Harale, "NEP-2020 Challenges and Opportunities," *Aayushi International Interdisciplinary Research Journal*, no. 130, pp. 5–6, Nov. 2023, [Online]. Available: [www.aiirjournal.com](http://www.aiirjournal.com)
9. S. Kadam and S. Menon, "Integrating Theme-Based Learning for Holistic Development Under NEP 2020," *Aayushi International Interdisciplinary Research Journal*, no. 130, pp. 7–12, Nov. 2023, [Online]. Available: [www.aiirjournal.com](http://www.aiirjournal.com)
10. S. A. Sabale, "A Study on Equity and Inclusion in Higher Education in India," *Aayushi International Interdisciplinary Research Journal*, pp. 1–4, Nov. 2023, [Online]. Available: [www.aiirjournal.com](http://www.aiirjournal.com)
11. A. A. Madhale, C. P. Sonkamble, and B. Ambedkar Marathwada, "NEP 2020: Fostering Historical Thinking Skills," *Aayushi International Interdisciplinary Research Journal*, no. 130, pp. 51–53, Nov. 2023, [Online]. Available: [www.aiirjournal.com](http://www.aiirjournal.com)
12. A. Kumar and D. Praseeda, "The National Educational Policy 2020-A Comparative Review," *YMER*, vol. 22, no. 1, pp. 722–731, Jan. 2023, [Online]. Available: <http://ymerdigital.com>
13. M. Patil and P. Darade, "Role of 21st century skills in NEP 2020," *Aayushi International Interdisciplinary Research Journal*, no. 130, pp. 57–60, Nov. 2023, [Online]. Available: [www.aiirjournal.com](http://www.aiirjournal.com)
14. S. Rohini, G. Bhosale, and K. B. Patil, "'National Education Policy (NEP) 2020- Challenges and Opportunities' Special Issue No Process Approach: A Productive Way for Holistic and Multidisciplinary Education," 2023. [Online]. Available: [www.aiirjournal.com](http://www.aiirjournal.com)
15. A. Khare and O. Goel, "The Impact of Nep 2020 On Higher Education in India: A Comparative Study Of Select Educational Institutions Before And After The Implementation Of The Policy.," *International Journal of Creative Research Thoughts*, vol. 11, no. 5, pp. 2320–2882, May 2023, [Online]. Available: [www.ijcrt.org](http://www.ijcrt.org)