



INTEGRATION OF TECHNOLOGY IN TEACHING LEARNING PROCESS TO FACILITATE LEARNERS WITH REFERENCE TO NEP 2020

AJAY KUMAR CHAUDHARY

RESEARCH SCHOLAR, DR. RAM MANOHAR LOHIA AVADH UNIVERSITY, AYODHYA

ABSTRACT:

Today's era is based on science and technology. We cannot assume life without technology. National Education Policy 2020 has added many such new dimensions in its education policy for the education system of the nation. In present research paper, the integration of technology in the teaching learning process has been explained which facilitates the learning of students. Today, the use of technology in education is seen through Google Classroom, Virtual Classroom, Video Conferencing, Computer Assisted Learning, etc. which has made the education system easy and smooth and the assessment of teaching learning is being done easily. In this research paper, keeping NEP 2020 at the centre, attention has been given to the use of technology in the teaching learning process, which makes the learning of students effective. In this research paper, adopting a qualitative approach, light has been thrown on the past researches done on integration of technology in teaching learning process.

KEYWORDS:

MULTIDISCIPLINARY APPROACH, NEP 2020, TECHNOLOGY, DIGITAL EDUCATION.

INTRODUCTION

The National Education Policy 2020 has focused on a holistic approach and a multi-disciplinary approach away from the traditional method of our current education system so that critical thinking can be developed in students. The multidisciplinary approach brings together knowledge and skills from numerous academic areas to address complex issues and problems. Rather than studying individual academic topic independently, a multidisciplinary approach seeks to connect them. This strategy is required for an effective teaching and learning process. The National Education Policy 2020 prioritizes equality and equity in education, recognizing the importance of including all pupils in school to overcome educational challenges and promote overall development. According to the National Education Policy 2020, digital technology has the potential to significantly transform the education sector. The National Education Policy 2020 states that the Digital India campaign is contributing to the development of a knowledge-based economy and a digitally empowered society nationwide. In addition to providing high-quality education, technology is also significantly enhancing the educational process and results, thereby creating a link between technology and education at all levels. According to this policy, there can be a revolution in the field of education through technology such as machine learning, smartphones, computer assistant learning, adaptive computing, artificial intelligence, etc. Enhancing educational excess, supporting teacher preparation and professional development, and improving the teaching, learning, and evaluation process will be the primary objectives of technological interventions. NEP 2020 will establish the National Educational Technology Forum, which will serve as a vehicle for integrating technology into various aspects

education. Moreover, digital infrastructure, digital repositories, online teaching platforms and technologies, e-content, virtual labs, teacher training and initiatives, online assessment, blended learning, and pilot studies for online education are all included in NEP 2020.

OBJECTIVES OF THE STUDY

The main aims of this study are given below

- To know the concept of multidisciplinary approach in education.
- To highlight the need and importance of integration of technology in teaching learning process.
- To highlight the key points of NEP 2020 with reference to integration of technology in education.

RESEARCH METHODOLOGY

The current research paper adopts a qualitative approach and attempts to understand the importance of integration of technology in the field of education. A multidisciplinary approach in the context of NEP 2020 in education is also highlighted. In the presented research, online books, research journals, newspaper articles, and research articles etc. were used to collect data in order to gain a thorough understanding of the subject matter related to the current research topic.

REVIEW OF LITERATURE

Jonali Sarma (2024) studied "Use of Online Resources for Teaching Learning Process in NEP 2020." The main objective of this research paper is to analyze the usage of online resources in teaching and learning. A qualitative research design is followed. The findings revealed that it is advised that educators be provided with ongoing chances for professional growth, such as education on the latest

developments in their field. Moreover, The NEP's emphasis on integrating digital technology to enhance teaching, learning, evaluation, and professional development will undoubtedly be met.

Roy Sonali and Ghosh (2023) studied "Integration in technology in education in NEP 2020" This article examines how technology may enhance education by overcoming challenges and broadening the reach of digital platforms and ICT-based programs, ensuring a high-quality education for all. This study uses qualitative data analysis and is descriptive in nature. In conclusion, NEP 2020 is a huge step towards changing India's educational system, but its effective implementation will depend on ongoing cooperation, efficient communication and coordinated efforts by all parties involved in the education system, including federal and state authorities.

A.B Thapa (2022) studied "Technology Integration for Quality Education: A study for Equity and Justice." This article aim's to compares Nepal's technological integration to the Common Core State Standards from the USA. Qualitative approach was followed in it and review study of past researches was done for data collection. It was concluded that Nepal's educational authorities make significant investments in technology infrastructure and get ready for the integration of technology into the classroom.

Syamili S (2021) examined "National Education Policy 2020, Knowledge Transfer and Technology in Education: Towards A Complete Learning Environment." The article aims to provide out a framework for considering technology in the classroom. Qualitative approach was adopted in it. The study concluded that Technological progress is necessary for a comprehensive learning environment. However, we should make sure that our students are aware of the importance of using technology in the classroom.

Kesh Rana & Karna Rana (2020) examined "ICT integration in teaching and learning activities in higher education: A case study of Nepal's teacher education." This study aims to examine ICT integration into teaching and learning activities in Nepal's higher education institutions. It was a case study. This study concluded that in the context of Nepal, the conversation highlighted a few issues and opportunities related to ICT integration in university teacher education. One of the main initial obstacles to successfully integrating ICT in university planning and teaching activities is the absence of a comprehensive educational strategy, strategic blueprint, and institutional plan. To effectively apply the new technology and convert conventional teacher education to a modern system of teacher preparation, the bulk of the Faculty of Education's older teachers, who have little ICT knowledge and skills, required advanced professional development training.

INTEGRATION OF TECHNOLOGY IN TEACHING LEARNING PROCESS

According to the NEP 2020, the integration of technology in the field of education is very beneficial. The policy

makes the following recommendations for the integration of education policy:

- India has advanced in the information and technology sector today, and new opportunities are being created by its policies. Modern technology is also being applied in the area of education, which is empowering the sector through digitization and disseminating knowledge across India. Together with high-quality instruction, technology has grown to play a significant role in today's educational landscape.
- Under this policy, it has been ensured that education should be provided through the new areas provided by technology, such as artificial intelligence, smartphones, computer-assisted learning, and so on. This also includes how and in what way the student uses this learning material in his education and this has also brought new areas of research to light.
- To ensure new dimensions and better use of technology in education, integration of technology should be encouraged. Technology should be implemented transparently in the sphere of education. There should be no inappropriate or unfair usage of technology in the field of education. Technology should be employed in schools and higher education institutions for evaluation, administration, planning, development of curriculum, and teaching, etc.
- The major works of National Educational Technology Forum are Offering independent and evidence-based advice to Central and State government organizations on technology-based interventions, building intellectual and institutional capacity in the field of education technology, strategically designing high-impact actions in these areas, and articulating new research and innovation directions.

KEY INITIATIVES OF TECHNOLOGY OF INTEGRATION:

NEP 2020 some important key initiative technology in teaching learning process with reference NEP 2020 are given below

Online Learning Platforms- NEP 2020 emphasizes the use of online learning platforms in the educational process so that everyone has access to education. SWAYAM, SWAYAM PRABHA, DIKSHA, READALONG, SAMPARK BAITHAK, PARAKH is an online teaching and learning platform. Which provides high-quality educational materials.

Development of E-content: - E-content is being created in a variety of languages to address language-related issues in the field of education. This will allow everyone to access the teaching and learning materials, break down barriers related to language, and make the teaching learning materials available to everyone in regional languages.

Focus on Artificial Intelligence: - The National Education Policy 2020 emphasizes the importance of artificial intelligence. It emphasizes the power of artificial

intelligence and the significance of its application in personalized learning.

Strengthen Teacher Training in Technology Integration: - As teachers shape India's future, they should be proficient in the use of technology in the classroom so that they may successfully educate their students and help them advance their knowledge and abilities through technological advancements. Teachers should receive training on educational technology and methods.

DISCUSSION AND CONCLUSION:-

With the technological advancements outlined in the National Education Policy 2020, everyone agrees to embrace technology-based education since it has the potential to bring about a revolutionary change in the field of education. Everybody will now receive education with equality and ability because of the use of new technology and digitization in the field of education. In conclusion, the integration of technology into teaching-learning process has brought about a number of new developments, including computer-based learning, blended learning, artificial intelligence, online learning platforms, e-content, and more. These developments have revolutionized the field of education and made it more accessible and equitable. It has been observed in recent years that the use of technology in education has increased, leading to advancements in the field and the nation's transformation into a smart nation. Apart from this, the National Education Policy 2020 has contributed to numerous technological advancements in recent years by introducing novel ideas that have improved teaching and learning

efficacy and made the teaching-learning process more interesting.

REFERENCES

1. **Sarma Jonali (2024).** "Use of Online Resources for Teaching Learning Process in NEP 2020." *International Journal of Multidisciplinary Research and Analysis*, (3), 977-983.
2. **Roy Sonali and Ghosh (2023).** "Integration in technology in education in NEP 2020." *A Journal on Multidisciplinary Studies*, 10, 34-41.
3. **Thapa, A. B. (2022).** "Technology Integration for Quality Education: A study for Equity and Justice." *Bodhi: An Interdisciplinary Journal*, 8(1), 71-88.
4. **Syamili S (2021).** "National Education Policy 2020, Knowledge Transfer and Technology in Education: Towards A Complete Learning Environment." *An International Multidisciplinary Research Journal*, 3(4), 144-147.
5. **Kesh Rana & Karna Rana (2020).** "ICT integration in teaching and learning activities in higher education: A case study of Nepal's teacher education." *Malaysian Online Journal of Educational Technology*, 8(1), 36-47.
6. **Ministry of Human Resource Development (2020).** National Education Policy 2020 Ministry of Human Resource Development, Government of India. https://www.education.gov.in/sites/upload_files/mhrd/files/NEP_Final_English_0.pdf