



PROMOTING DIGITAL TRANSFORMATION IN EDUCATIONAL SETTINGS: A MULTIDISCIPLINARY APPROACH OF NEP 2020

SHIVANI SINGH

RESEARCH SCHOLAR, DR. BHIMRAO AMBEDKAR UNIVERSITY AGRA.

ABSTRACT:

The role of the learner remains central to the teaching-learning process. Nowadays, all educational policies are student-centred. At present, multidisciplinary approach is being adopted in place of the teacher's traditional approach. The multidisciplinary approach of the recently released New Education Policy 2020 has been added to this research paper, and focus has been given on the digital transformation in the field of education. This will allow for new improvements in the field of education and a new revolution in teaching-learning through the use of new techniques, thereby promoting the holistic development of the child, including their emotional, physical, social, spiritual, and moral growth. Additionally, the role of digital transformation in educational settings is the main focus of this paper. It is vital that educational institutions support students' digital transformation. The objective of this study is to identify the need of digital transformation in educational settings and in teaching learning process. Qualitative approach is followed in this study. Moreover, this study examined previous research in the field of digital transformation, and this paper offers a thorough analysis of current state of the digital transformation of education system.

KEYWORDS:

DIGITAL TRANSFORMATION, MULTIDISCIPLINARY APPROACH, NEP 2020.

INTRODUCTION

Today information and communication technology are dominant in the field of education. Without the use of technology, we cannot improve the education system. Today, many new changes are seen in the field of education, such as now multi-disciplinary approach is being adopted in education instead of traditional methods. According to the National Education Policy 2020, teaching-learning through holistic and multidisciplinary method has been an ancient tradition in India. Ancient and world-renowned universities like Nalanda and Takshila have many comprehensive literatures that reveals the combination of various subjects. A multidisciplinary approach to education is a method of learning that focuses on multiple perspectives and disciplines of learning to illustrate a topic, concept, or issue. It is the process of learning a same subject from many specialties' perspectives. It enables the student to acquire insights and understanding in various ways. Moreover, in multidisciplinary approach various teaching methods, knowledge and skills from different subjects are combined to achieve greater understanding of a topic. National Education Policy 2020 highlights online and digital learning can be set up to guarantee access to education in situations where traditional methods cannot provide it. Digitalization of education should be approached by addressing the challenges in the relevant context while taking into account the conditions and realities. In order to digitize education, the NEP 2020 have addressed the availability of digital tools for everyone's benefit, the need for teachers to receive the proper training and development to become proficient online educators, and

the rise of digital technology. In addition, NEP 2020 discusses pilot studies for online education, digital infrastructure, online teaching platforms and tools, digital repositories, virtual labs, teacher training and initiatives, online evaluation, blended learning, and other topics.

OBJECTIVES OF THE STUDY

The main aims for this study are-

- To know the concept of multidisciplinary approach.
- To highlight the need and significance of digital transformation in the educational area.
- To draw attention to NEP 2020's main ideas about the digital transformation of education.

RESEARCH METHODOLOGY

In the presented research paper, qualitative approach has been adopted and an attempt has been made to understand the importance of digital transformation in the field of education and multidisciplinary approach in context of NEP 2020 in education has also been highlighted. In the presented research, online books research journal, research article, newspaper articles have been used for data collection so that deep knowledge can be obtained in the subject related to the related to the current research topic.

REVIEW OF LITERATURE

Anwar Khan and Naushad Husain (2024) explored "Understanding Digitalization of Education through the Lens of NEP 2020: Prospects and Challenges" The goal of this study is to examine the various facets of digitalization

in education, including both its possible advantages and disadvantages. This was a qualitative study and secondary data was collected through various sources. The finding revealed that we can create a more welcoming and effective learning environment by tackling the difficulties and seizing the opportunities that digital technologies offer.

Sivasankar Mandal & Jayalakshmi (2024) studied "NEP-2020 -Access and Scope of Digital Education in Rural India – A study". The focus of this study was to know the scope of Digital education in rural areas of India. Secondary data was used in it and qualitative approach was followed in this study. The findings revealed that virtual learning and digital education must be fundamental requirements for the majority of rural development initiatives.

Joseph, Onwuzulike and Kazeem Shitu (2024) studied "Digital transformation in education: Strategies for effective implementation." This study examines the various aspects of digital transformation in the education industry. A comprehensive investigation of the topic was made possible by the methodological approach, which included qualitative analysis and systematic evaluations of previous research and case studies. The study's main conclusions show that strong technology infrastructure, creative teaching strategies, and extensive legal and policy frameworks are necessary for the successful adoption of digital transformation.

Biplab Sarkar (2023) examined "Online and Digital Education in The Light of National Policy on Education 2020: An Interpretation" This study examines the role of online and digital education in the 2020 National Education Policy. This was a qualitative study and secondary data was collected through various sources. Online and digital education is expected to increase students' interest in new technology. As a result, online and digital education are extremely important in the field of modern education.

Sunita Simku (2021) studied "Digital Transformation in Education Sector: The Way Forward for India." The objectives were to examine the impact of COVID-19 on the Indian educational system, to research the different possible risks and possibilities in the educational system and to ascertain the outlook for digital education in India. It was a qualitative study. According to the study's findings, utilizing digital technologies would not only improve educational quality but also have the potential to revolutionize the future for both instructors and students.

PROMOTING DIGITAL TRANSFORMATION WITH REFERENCE TO NEP 2020

The National Education Policy 2020 emphasizes the relevance of digitization in education and discusses digitizing education in a variety of methods. The primary initiatives done for digitalization in NEP 2020 are as follows:

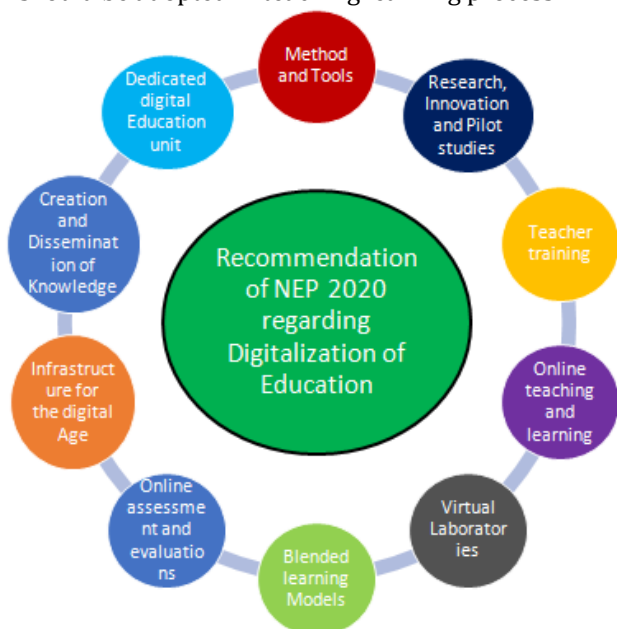
- **Research, Innovation and Pilot studies:** The

NEP-2020 emphasizes using technology in education to promote research, innovation, and experimentation. The plan proposes for the establishment of digital repositories and research networks that promote multidisciplinary collaboration and knowledge sharing. Moreover, importance has also been given on pilot studies in the field of education.

- **Teacher training:** By integrating digital tools and technologies into teacher education programs, NEP 2020 highlights the significance of giving educators thorough training on how to use these tools and technologies at all educational levels. This will improve teachers' digital literacy and competency and prepare them for the digital age.
- **Online teaching and learning:** The National Education Policy 2020 has discussed online teaching and learning, as well as making online education options available in the area of education. People in locations where they do not have access to school can be educated online. It encourages for the expansion of online education efforts to reach a larger audience and provide learning flexibility.
- **Virtual Laboratories:** In the present digital age, virtual laboratories have become vital for allowing students to put their theoretical knowledge into practice. These labs will have the tools necessary to enable experiment-based learning. Students will become more knowledgeable and proficient in their particular fields of education as a result of this.
- **Blended learning Models:** Blended education is a new approach that combines online learning with traditional classroom learning. This technique allows students to access course materials and resources online while also receiving teaching and feedback from their teachers in the classroom. It can provide pupils with a wide range of knowledge about their subject matter and boost learning skills.
- **Online assessment and evaluations:** In order to improve the efficacy, impartiality, and transparency of the evaluation process, NEP-2020 recommends implementing technology-enabled assessment and evaluation methods. Additionally, it promotes the use of digital tools for monitoring student progress and learning outcomes as well as for formative and summative assessments. In order to facilitate the evaluation process, NTA and PARAKH will be involved.
- **Infrastructure for the digital Age:** To promote the sharing of best practices and ideas for integrating technology into education, the NEP suggests creating a National Educational Technology Forum. In order to guarantee access to digital materials, it also urges the establishment of digital infrastructure in schools, including broadband internet connectivity.
- **Creation and Dissemination of Knowledge:** The NEP-2020 encourages the development and dissemination of open educational resources (OER) in

order to facilitate fair and reasonably priced access to learning resources. Additionally, the NEP 2020 recommended enjoyable learning resources to spread information and pedagogical knowledge and a safe backup system will make it easier to distribute e-content to pupils.

- **Dedicated digital Education unit:** The investigative team will include of professionals in education, instructional technology, management, e-governance, e-learning, and information technology to support the digital education system. The specialists will deliver great training to pupils, addressing their concerns and uncertainties. They will resolve digital learning related concerns.
- **Method and Tools:** In order to facilitate class management and student progress tracking, learners should be provided interactive features like a two-video interface. Digital tools and techniques should be adopted in teaching learning process.



RECOMMENDATION OF NEP 2020 REGARDING DIGITALIZATION OF EDUCATION

DISCUSSION AND CONCLUSION

The emergence of the digital revolution in education has led to advancements in the sector. People now have more options to get education due to the digitization of education. Everyone now has a fair and equal opportunity to education. As conclusion it is clear that research innovation, pilot studies, online teaching and learning, virtual laboratories, integrated learning, online assessment

and evaluation infrastructure, digital age creation, knowledge dissemination, and specialized digital education units, methods, and tools are just a few of the significant recommendations made by National Education Policy 2020 in the context of digitalizing education. These recommendations have significantly advanced the field of digitalization of education. For effective implementation of technology in education, it's important to evaluate both the positive effects and challenges of digitalization. One of the most significant concerns is the dehumanization of education, since reliance on digital tools and platforms may lessen the personal interaction and human connection required for effective teaching and learning. Achieving digitalized education may appear tough, yet several examples demonstrate that the impossible is possible. In today's India, it's crucial to strike a balance between digital and traditional teaching methods.

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