RESEARCH PAPER

National Education Policy 2020 and Multimedia supported Teacher Education Program

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ABSTRACT

The National Education Policy 2020 has been approved by the Government of India, aiming to revolutionize the country's educational system. The Multimedia Supported Teacher Education Program will provide an interactive, immersive and engaging way of learning. The MSTEP provides modern teaching systems such as blended learning, virtual classrooms and online assessments. The program aims to provide digital resources and tools for teachers who may have difficulty accessing traditional forms of education due to digital divides or lack of access to physical classrooms. MSTEP seeks to bridge this gap by offering multimedia-based teaching materials and interactive learning modules, catering not just to individual teachers but also their students. Through this program, educators will be able to upgrade their content delivery abilities as well as strengthen their ability to adapt to changes in curriculum. The plan is intended to create a strong culture of lifelong learning among teachers and to provide those innovative tools and resources that can be used to optimize their teaching. The policy aims to promote excellence in education by enabling teachers to make use of cutting-edge technologies for better teaching outcome. This program will enable teachers to gain access to high-quality, real-time training and instructional materials in all subjects. The MSTEP will also provide teachers with an opportunity to connect with peers and experts around the world in order to gain more knowledge and expertise. Through MSTEP, teachers can enhance their pedagogical skills, improve their knowledge and benefit from the latest technological advancements in the field of education.
Key words: multimedia in education, MSTEP, technology, learning, NEP 2020, innovative tools

INTRODUCTION

The integration of multimedia in classroom teaching has brought education into one steps higher from the traditional technique or better known as "chalk and talk" teaching method to a more interactive and interesting teaching and learning process. The NEP-2020 provides for a comprehensive, sustainable and reformative roadmap for a paradigm shift in the entire education system in the country, and is culturally grounded, is geared toward quality transformation, and is internationally competitive. An Introduction of the Topic Loading technology into every public classroom for overall student excellence along with teachers incorporating multimedia defines new or renewed pedagogies. Technology contains the capability to spark visual, auditory, kinesthetic and tactile modalities. Technology-implemented lessons foster learning while playing because mostly all senses are influenced in the activity. Both students and teachers are motivated when educational technology is integrated into the instruction due to several reasons that lead to becoming engaged in the learning process.

Multimedia can drive education in a positive manner and change the game completely. Education systems around the world are under the use of new technology, to teach students the knowledge and skills they need in the 21st century. Education is at the confluence of powerful and rapidly shifting educational, technological forces that will shape the structure of educational systems across the globe for the remainder of this century. Multimedia provide an array of powerful tools that may help in transforming the present isolated, teacher-centered and text-bound classrooms into rich, student-focused, interactive knowledge environments. Briefly discussing the meaning of multimedia- When something is expressed using more than one medium like images, videos, animations, or interactive content is known as Multimedia.

Real-World Relevance: Multimedia can help to bring real-world examples and applications into the classroom, making learning more relevant to students' lives.

Supporting Diverse Learning Styles: Multimedia can cater to a range of learning styles, such as visual, auditory, and kinesthetic.

OBJECTIVE

1. Why use multimedia in the classroom?
2. Effects of multimedia on classroom and students.
3. Benefits of multimedia education.
4. What is the impact of multimedia in teaching?

TERMINOLOGY

1. WHY USE MULTIMEDIA IN THE CLASSROOM:

Multimedia activities encourage students to work in groups, express their knowledge in multiple ways, solve problems, revise their own work, and construct knowledge. The advantages of integrating multimedia in the classroom are many. Through participation in multimedia activities, students can learn:

➢ Real-world skills related to technology
➢ The value of teamwork
➢ Effective collaboration techniques
➢ The impact and importance of different media
➢ The challenges of communicating to different audiences
➢ How to present information in compelling ways
➢ Techniques for synthesizing and analyzing complex content
➢ The importance of research, planning, and organization skills
➢ The significance of presentation and speaking skills
➢ How to accept and provide constructive feedback
➢ How to express their ideas creatively

2. EFFECTS OF MULTIMEDIA ON CLASSROOMS AND STUDENTS:

➢ Change in Student and Teacher Roles
➢ Increased Motivation and Self Esteem
➢ Technical Skills
➢ Accomplishment of More Complex Tasks
➢ More Collaboration with Peers
➢ Increased Use of Outside Resources
➢ Improved Design Skills/Attention to Audience

3. THE BENEFITS OF MULTIMEDIA EDUCATION:

The field of education is changing rapidly. The old days of schools with isolated AV departments and outdated TVs are long gone- the use of modern multimedia within the education sector has accelerated in recent years and is set for continued expansion in the future.

By using multimedia technology, educators can offer new methods of learning, which support concept development to meet the individual learning needs of their students. Multimedia can make educational content accessible to a wider range of learners, including those with visual or auditory impairments.

There is no doubt that the interest in technology education is rising, and has progressed fast in the past few years. Let's explore some benefits of multimedia learning in the modern classroom.

a. Extensive Understanding:

According to Richard Mayer's Cognitive Theory of Multimedia Learning information received via auditory and visual channels is processed in different parts of the brain. When students are able to learn through both of these channels simultaneously, they absorb more sensory information and are able to commit more of the lesson to memory. According to research, a benefit of multimedia learning is that it takes advantage of the brain's ability to make connections between verbal and

visual representations of content, leading to a deeper understanding, which in turn supports the transfer of learning to other situations.

b. Increased Problem Solving:

Because a large percentage of our brain is reserved for processing visual information, we are highly stimulated when absorbing images, video, and animations alongside text. This leads to an increase in student attentiveness and information retention. In a study titled "Problem-Solving in a Multimedia Learning Environment," researchers found that students exhibited high motivation, teamwork, and enhanced understanding of the project, and encouraged the use of technology-backed classrooms. Under these circumstances, in a multimedia learning environment, students can identify and solve problems more easily compared to the scenario where teaching is made possible only by textbooks.

C. Surge in Positive Emotions:

Multimedia learning tends to be much more fun for learners than gathering information through wordy textbooks, and this can actually increase their knowledge and passion for the subject being taught. An NYU Study found that 'positive emotions should be considered as important factors in instructional design", and that "positive emotions can be generated by the instructional design that may be able to affect learners' experience and performance".

D. Greater Access to Diverse Knowledge:

With increased internet connection in the classroom, students and teachers are able to gather information from a diverse range of sources, and illustrate points in exciting, immersive ways. According to nonprofit organization educators can obtain a wealth of information and perspectives to pass along to their students by incorporating online multimedia resources into their lessons, and innovative ways to convey their lessons.

E. Immersion and Exploration:

Imagine the ability to take your students to the top of Mount Everest, the NASA Space Station, or a refugee camp in Jordan. Immersive multimedia resources make this a reality, allowing educators to teach by experience without ever leaving the classroom.

Blended learning is the term given to the educational practice of combining digital learning tools with more traditional classroom face to face teaching. This aims to utilize technology in order to rearrange the learning experience and maximise the effectiveness of valuable face to face time in the classroom.

Need for Flexibility to Students / Learners Centricity, The National Education Policy has given a rare glimpse in what can be achieved through the transformation of education. The new NEP clearly states that it is time to take on a policy that is undoubtedly student centric, or what can be safely put down as Education. The time has indeed come to recognize the fact that the student is the main stakeholder and that efforts must be taken to make the system respond to their dreams and aspirations. In this line of thinking the new policy gives the acceptability of many modes of learning including that of face to face learning, online learning and distance or virtual mode. It also promotes use of vocational courses, multi-disciplinary courses and multi-modal approaches there by focussing on Blended teaching-learning. The NEP-2020 states that while promoting digital learning and education, the importance of face-to-face in-person learning is fully recognized.

ROLE OF A LEARNER IN THE BL ENVIRONMENT INCREASE STUDENT INTEREST:

When technology is integrated into school lessons, learners are more likely to be interested in, focused on, and excited about the subjects they are studying.

Keep Students Focused for Longer:

The use of computers to look up information & data is a tremendous lifesaver, combined with access to resources such as the internet to conduct research. This engagement and interaction with resources keep students focused for longer periods than they would be with books or paper resources. This engagement also helps develop learning through exploration and research. Provides student autonomy: The eLearning materials increase students' ability to set appropriate

learning goals and take charge of their learning, which develops the ability to be translatable across all subjects.

Instill a Disposition of Self-Advocacy:
Students become self-driven and responsible, tracking their individual achievements, which helps develop the ability to find the resources or get the help they need, self-advocating so they can reach their goals. Promote student ownership: BL instills a sense of 'student ownership over learning' which can be a powerful force propelling the learning, It's this feeling of responsibility that helps the feeling of ownership. Allow instant diagnostic information and student feedback: The ability to rapidly analyze, review and give feedback to student work, gives the teacher the ability to tailor his teaching methods and feedback for each student while improving time efficiency. It enables students to learn at their own pace: due to flexibility and the ability to access internet resources, it allows students to learn at their own pace, meaning a teacher can help speed up the learning process or give more advanced resources if necessary. Prepares students for the future: BL offers a multitude of real-world skills, that directly translate into life skills, from: Research skills, Self-learning, Self-engagement, Helps to develop a 'self-driving force', Better decision making, Offers a larger sense of responsibility and Computer literacy.

Using multimedia in the classroom helps the teacher engage the students and helps the student be more involved and retain more information from the lesson.

IMPACT OF MULTIMEDIA IN TEACHING

It is possible to conclude that teaching based on multimedia setting has much more positive effects on academic achievement in contrast to traditional teaching and it makes topics to be learned much more understandable and learning environment with much more fun.

The National Education Policy, 2020 (Policy), unveiled by the Ministry of Human Resource Development (MHRD), is revolutionary in every sense. While the Policy focuses on multiple aspects, including the need for early childhood care, inclusive education and revamping of the current curriculum, an inherent thread that runs through the Policy is the interplay of education and technology.

Over the last decade, India has transformed itself into an 'information intensive society' and there is a growing requirement to embrace the usage of technology in the field of education. In this regard, the Policy notes that one of the central principles steering the education system will be the '*extensive use of technology in teaching and learning, removing language barriers, increasing access as well as education planning and management*'.

The Policy recognizes the importance of technology in aiding teachers, bridging the language barrier between teachers and students, creating digital libraries, popularizing language learning as well as ensuring greater access to education (specifically for differently-able children). It is also proposed that coding be introduced in school curriculums as an important skill that students must develop. The Policy also notes that technology can be an effective tool in facilitating teacher education and encourages the utilization of technology platforms for online teacher-training.

CONCLUSION

While the Policy is a novel and progressive document, acknowledging the invaluable role of technology in facilitating learning and teaching, it is essential to develop a coherent plan of action for fostering technological proficiencies to aid successful engagement with technology (and its future advancements), while providing effective safeguards for data protection and data privacy.

Overall, the success of the Policy will be contingent on the means and mode of its implementation, as well as the ability to effectively integrate the objectives of the Policy, within existing initiatives and engaging the relevant stakeholders in the effective delivery of the Policy. The Policy is mindful that education in the future will involve greater dematerialization and digitalization of content. For a hitherto conservative educational system of India, this mindfulness is itself a remarkable feat.

The above definition speaks for itself. If features like images and videos are largely used in education, you can only imagine the excitement and interest amongst children. Learning Tablets are one source which beautifully brings in the essence of digital content with multimedia. Tablets have topic-specific video lessons in the form of animations, fun project making videos, massive

digital library which not only have school syllabus books but also story books with insights on life skills and ethics like honesty, hard-work, dedication and many such crucial aspects.

Thus, with so much to explore in an enjoyable way, children's curiosity levels are intrigued. They feel enthusiastic and take initiative to learn more and know more. Multimedia being an all-round support to education helps in holistic growth of a child preparing him for his professional and worldly endeavors.

It is possible to conclude that teaching based on multimedia setting has much more positive effects on academic achievement in contrast to traditional teaching and it makes topics to be learned much more understandable and learning environment much more fun.

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