



Promoting Education for Innovation through India's National Education Policy 2020

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ABSTRACT

National Education Policy focuses on accessibility, quality, equality, affordability, and accountability to enable lifelong learning. The solution factor in making every one of these happen lies in the fostering of innovation and research. This paper emphasizes the necessity to foster innovation in higher education and how policies should be designed to encourage innovation and/or further research. The new Education Policy indorses to build independent council for innovation for financing and facilitate innovating education in India. The Underpinning will act as a connector between researches (that may be faculty or students or both) and relevant branches of government as well as industry. To promote innovation and research, we need to encourage high R&D investments from government and private sections that will encourage innovation and innovative thinking. We need to support strong R&D investments from the public and private sectors, which will foster innovation and new thinking, in order to boost research and innovation. The pandemic has raised a lot of awareness about looking for novel ideas, etc. in India. India must now advance its economic growth-promoting research. A key part of HEI's mentoring of teachers should be to encourage innovation and research.

There is a need for a supportive innovation and research culture that supports all unique programmes and initiatives. The paper discusses the concept of innovation in education and innovation teaching strategies as the means of development of an individual and promote innovation through education.

INTRODUCTION

India's National Education Policy 2020 (NEP 2020) aims to promote education for innovation by emphasizing the importance of creativity, critical thinking, and problem-solving skills in the education system. Here are some of the key provisions of NEP 2020 that are aimed at promoting innovation in education like NEP 2020 emphasizes the need for multidisciplinary learning, which encourages students to learn from multiple disciplines and apply this knowledge to real-world problems. This method encourages pupils to think outside the box and investigate novel and uncommon ideas, which fosters creativity and innovation. NEP 2020 aims to promote a culture of research and innovation in education by providing support for research and development activities in schools, colleges, and universities. This includes the establishment of research parks, innovation centers, and incubation centers to support innovation and entrepreneurship. It also identifies the importance of technology in education and aims to integrate technology into the education system. This includes the development of digital infrastructure and e-learning platforms, as well as the promotion of digital literacy and digital citizenship among students. NEP 2020 emphasizes the importance of vocational education and aims to promote skill-based learning to enable students to acquire practical skills and knowledge. By allowing students to use their knowledge and skills to resolve issues in the real world, this method encourages innovation. NEP 2020 distinguishes the importance of teacher training in promoting innovation in education. The policy emphasizes the need for continuous professional development for teachers to enable them to incorporate innovative teaching methods and technologies in their classrooms. The policy represents a significant step towards promoting education for innovation in India. The goal of the policy is to develop a more innovative and dynamic educational system that equips students for the challenges of the twenty-first century by highlighting the value of creativity, critical thinking, and problem-solving abilities as well as through supporting research and innovation activities. It is an admission that we do not have all the solutions and that we are open to new ideas for improvement, including creative teaching techniques and ways for information transmission. Several cutting-edge teaching techniques include following.

INNOVATIVE TEACHING STRATEGIES

Some of the innovative teaching strategies that educators can use to engage students and enhance learning outcomes. Here are some examples:

1. **Flipped Classroom:** Method where students learn the content out of the classroom through videos, readings, or other resources, and then use class time to engage in collaborative activities and discussions. This method allows students to take ownership of their learning and promotes deeper understanding of the material.
2. **Project-Based Learning:** This method involves students working on a long-term project that involves solving a real-world problem or creating a product. This approach promotes critical thinking, collaboration, and problem-solving skills.
3. **Gamification:** Gamifying education involves using game-based elements in the classroom to motivate students and make learning more engaging. This method can be particularly effective for younger students who may struggle to stay focused during traditional lectures.
4. **Customized Learning:** in this method or strategy, tailoring instruction are given to encounter the exclusive needs and interests of individual students. This method can be accomplished through the use of technology, such as adaptive learning software, or through more traditional methods, such as small group instruction.
5. **Active Learning:** Active learning involves engaging students in activities that require them to think, discuss, and problem-solve. Examples of active learning strategies include group work, case studies, and simulations.
6. **Multimodal Learning:** This approach involves presenting information to students through a variety of modalities, such as videos, images, text, and audio. This method can help reach students with different learning styles and preferences.
7. **Social and Emotional Learning:** This approach focuses on teaching students social and emotional skills, such as empathy, self-awareness, and communication. This method can help create a positive and supportive classroom environment and promote student well-being.

These are just a few examples of the many innovative teaching strategies available to educators. By incorporating these methods into their instruction, educators can assist more engaging and effective knowledgeable situation for their students. Now a days classrooms are still crowded, messy, and loud environments that make it problematic for kids to move about, inducing communication breakdowns and other barriers to concentration and understanding. Learning environments should maintain fluidity to

facilitate one-on-one learning, collaboration, free-thinking, and group debates. Each of the above strategies employs ways to encourage questioning, exploration, technology usage, and content analysis using available materials and research. Students are able to solve issues independently or with others, push themselves to new heights, and report their discoveries to others, transferring their knowledge.

IMPORTANCE OF INNOVATION IN EDUCATION

Innovation in education is crucial for a number of reasons. The important key reasons for innovation in education are:

1. **Engaging Students:** Innovation can help engage students and make learning more enjoyable and meaningful. By incorporating new and exciting teaching methods, educators can help students stay motivated and interested in their studies.
2. **Addressing Diverse Learning Needs:** Every student has unique learning needs and preferences. Innovation in education can help address these diverse needs by offering a range of learning methods and resources.
3. **Preparing Students for the Future:** Students need to be ready for a range of challenges and opportunities as per current situation. Education innovation can assist in giving students the knowledge and abilities they need to prosper in the future.
4. **Encouraging Critical Thinking:** Innovation in education can help encourage critical thinking and problem-solving skills. By presenting students with complex and challenging problems, educators can help them develop the ability to think creatively and logically.
5. **Enhancing Collaboration:** Innovation in education can help facilitate collaboration among students, which can be particularly important in today's interconnected world. By promoting teamwork and communication, the class teacher facilitates student's skill development, they need to work effectively with others.
6. **Improving Learning Outcomes:** Finally, innovation in education can help improve learning outcomes by making learning more effective and efficient. By incorporating new technologies and teaching methods, educators can help students achieve better results in less time.

Innovation in education is vital for ensuring a high-quality education for student to make them ready for the future. By embracing new and innovative teaching methods, instructors can contribute to the creation of a more interesting and productive learning environment for their pupils.

FUTURE OF EDUCATION INNOVATION

The future of education innovation is likely to be shaped by several key trends and developments. Tendencies to have an important impact on the future of education innovation are:

1. **Customized Learning:** it is an important method where instructions provided that are fully customized in education as per the individual needs and preferences of each student. With the increasing availability of educational technology and data analytics, personalized learning is becoming more feasible and accessible. In the future, we can expect to see more schools and teachers adopting personalized learning approaches to improve student outcomes.
2. **Blended Learning:** the strategy which incorporates online learning with traditional classroom instruction. This approach allows students to access educational resources and interact with teachers and peers in a flexible and convenient way. With the ongoing development of online learning platforms and educational technology, we can expect to see more schools and teachers incorporating blended learning into their instructional models.
3. **Gamification:** A game-based motivating factors include points, badges, and leaderboards and engage students in the learning process called as Gamification. With the increasing popularity of video games and the ongoing development of educational games and simulations, we can expect to see more schools and teachers incorporating gamification into their instructional models.
4. **Artificial Intelligence:** it is the method where the latent to revolutionize education by providing personalized recommendations, feedback, and support to students. AI can help teachers identify areas where students need additional support and provide targeted interventions to improve learning outcomes. In the future, we can expect to see more schools and teachers incorporating AI into their instructional models.
5. **Virtual and Augmented Reality:** the technology involved in Virtual and augmented reality have the possibility to transform the way students learn by providing immersive

and interactive learning experiences. These tools guide the students visualize and understand complex concepts and ideas in new and innovative ways. In the future, we can expect to see more schools and teachers incorporating virtual and augmented reality into their instructional models.

Future of education in innovation is likely to be shaped by a mixture of new strategies, innovative instructional models, and evolving student needs and preferences. As educators continue to explore new and innovative approaches to teaching and learning, we can expect to see a more engaging, effective, and personalized educational experience for students of all ages.

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