

EDUINFORMER VI

AUGUST 2023



INNOVATIVE PRACTICES IN EDUCATION

CUTTING-EDGE EDUCATIONAL APPROACHES



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| This newsletter is edited and published by EDUREFORM consortium partners | |

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INTRODUCTORY WORDS

by

Ms. Mansi Uppal
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Greetings to all readers on the momentous occasion of the 76th Independence Day of India!

On this auspicious day, I extend my heartfelt wishes for this Independence Day to each one of you. Independence Day is a time of profound significance, as it commemorates the hard-fought freedom and sovereignty of the nation.

The nexus of independence, education, and innovation exemplifies the potential for a country to flourish and leave an indelible mark on the world stage. As to celebrate Independence Day, let us embrace the spirit of learning, encourage creativity, and promote an ecosystem that fosters innovation. Together, we can build a brighter, more prosperous future for our citizens, where every individual's potential is unlocked, and the nation's growth knows no bounds.

Now, I welcome you all to our newsletter dedicated to the exciting realm of innovative practices in education. In this ever-evolving world, education plays a pivotal role in shaping the minds of future generations. It is crucial for educators and stakeholders to embrace new ideas, methodologies, and technologies to create engaging and effective learning experiences.

Innovation in education is not just about incorporating flashy gadgets or trends; it encompasses a wide range of transformative practices that foster creativity, critical thinking, collaboration, and problem-solving skills among students. From the integration of virtual reality in classrooms to the implementation of project-based learning, there are countless innovative approaches that are revolutionizing the way we teach and learn.

The Need for Innovations in Education: Navigating Challenges and Embracing Change

During my four years as a teacher, I had the privilege of working with students across various age groups, from kindergarten to senior secondary. It was an incredible journey that allowed me to witness firsthand the transformative changes taking place in the education industry. However, it was during the era of COVID-19 that I encountered some of the most significant challenges as an educator. The pandemic brought about unprecedented disruptions in education, with schools shifting to remote or hybrid learning models. Suddenly, the traditional classroom setting was replaced with virtual platforms, and

teachers faced the daunting task of engaging their students in this new environment which calls for innovation in our method of teaching.

The need for innovative practices extends beyond the pandemic and into the traditional classroom setting as well. In this digital age, students have unprecedented access to information and resources at their fingertips. As educators, it is our responsibility to go beyond simply imparting theoretical knowledge and instead focus on developing a deeper understanding through practical explanations and real-world applications.

Gone are the days when teaching solely from textbooks was sufficient. Students today crave meaningful connections between what they learn in the classroom and how it applies to their lives and the world around them. They seek relevance and practicality in their education. It is crucial for teachers to bring new innovations into their teaching practices to meet this demand and provide a well-rounded educational experience.

What to Expect from This Newsletter: Unveiling Its Purpose and Offerings

Through this newsletter, we aim to explore and celebrate the diverse range of innovative practices being adopted by educators worldwide. Our goal is to inspire and empower educators, administrators, and parents to stay informed and discover fresh ways to enhance the educational journey of learners.

Each section of this newsletter will feature thought-provoking articles, success stories from schools and universities, interviews with leading experts, practical tips, and valuable resources. We will also keep you up-to-date with the latest trends and developments in educational technology and pedagogical methodologies.

We believe that by sharing knowledge and experiences, we can collectively contribute to a vibrant educational landscape that nurtures the potential of every learner. So, whether you are a passionate educator, an inquisitive parent, or simply someone interested in the future of education, we invite you to embark on this enlightening journey with us.

Thank you for joining us in this change.

REDEFINING INDEPENDENCE IN EDUCATION: BREAKING THE SHACKLES OF ROTE LEARNING

by
Ms Varnika Sharma
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EDUREFORM



First of all, a very Happy 76th Independence Day to all our readers!

While India celebrates this momentous day, it is also important for us to ponder not only upon the historic struggle for freedom but also on the liberation of minds in our education system. The prevalence of rote-learning in the classrooms has obstructed true learning and critical thinking. It has limited the dynamic potential of our students, thus, deterring the nation's advancement. It is no surprise that India has some of the most brilliant minds in the world, but still, the people do not get similar opportunities as the people in the developed countries. Therefore, it is high time we advocate for a paradigm shift towards a more inclusive and creative educational approach that nurtures curiosity, innovation, and problem-solving abilities.

You must be thinking what exactly is rote-learning! Rote learning (or as we call in hindi- *ratta*), is the process of memorizing information without truly understanding it. It is evident from each person's own experiences that it has become ingrained in India's education system. Students are taught to memorize numbers, facts and formulas during exams. In case they try to go into the depth of the concept, unfortunately, they are told by some of the educators to just cram the formula and apply it to get the desired results. This robs them of the ability to think critically, analyze situations, and find innovative solutions to challenges. We all have seen at least one person in our lives who excelled in exams but struggled while making real contributions in his/her respective field. What I feel is that rote-learning is just like an epidemic- widely spread without any control or limitation!

To redefine independence in education, we must prioritize a more holistic approach to learning. Education should not be about merely memorizing facts but rather about nurturing a student's ability to think critically, problem-solve, and adapt to different situations. High degrees of innovation needs to be practiced in classrooms to bring about the transformation in Indian Education system. Here are some key steps to enable this paradigm shift:

UNDERSTAND, DON'T MEMORIZE: Engaging innovative teaching practices in classrooms, such as Brainwork, Open

Book Environment, Reflective Cheat Sheet can foster a deeper understanding of subjects. Integrating tools such as *Heads and Tails*, *MAX*, *1+1=1* can deeply help in making the classroom interactive and developing creative and analytical thinking skills in students.

FUEL CURIOSITY: Welcome questions at each stage! Encourage curiosity in students by promoting questions and open-ended discussions. Tools such as *Debate*, *Case Study*, *Peer Facilitated Learning* can help students actively participate in the class and inculcate confidence in themselves.

HOLISTIC LEARNING: Introduce creative skills such as arts, music, and sports into the curriculum, as they play a pivotal role in nurturing creativity and critical thinking. Creative expression helps them channelize their budding energies into something more productive.

EXPLORE BEYOND EXAMINATIONS: Transition from relying solely on exam-based assessments to embracing a broader and more holistic evaluation system. Incorporating projects, presentations, and practical demonstrations of knowledge can offer a more precise depiction of a student's abilities and untapped potential.

TEACHER TRAINING AND SUPPORT: Invest in continuous teacher training and support programs that equip educators with innovative teaching methodologies. Teachers should be encouraged to experiment with new pedagogies that engage and inspire students. Tools such as *Multiperspective Teaching*, *Integrated and Interactive Lesson Plan*, *Microteaching*, etc can be helpful in this.

Redefining Educational Independence demands a collaborative effort involving policymakers, educators, parents, and students. The moment has arrived for us to break free from the constraints of rote learning and embrace an all-inclusive and imaginative educational approach. By fostering critical thinking, curiosity, and problem-solving abilities among our students, we can equip them to lead India towards prosperity and innovation. As we commemorate the spirit of independence, let us vow to liberate our classrooms from rote learning's confines and unlock the genuine potential of our education system for a brighter future.

10 INNOVATIVE TEACHING METHODS TO FOSTER STUDENT ENGAGEMENT AND LEARNING

by

Mr. Ganesh Naykude

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Founder Chairman - Gurukul Schools



The purpose of education is not only teaching the textbooks and making the students understand but also adding innovative thinking, creative mind and self-awareness. Keeping this concept in mind, many teachers use innovative teaching methods to impart knowledge towards students. Finding such innovative teaching methods is not something very easy but the results of using these methods pay off all the efforts. Sometimes these methods are a combination of a teacher's skill and use of technology, teaching aids and audio-visual instruments. Innovative teaching method means Creativity and newness of a teacher that Changes the way of teaching. It helps to meet the educational needs of the new era.

FLIPPED CLASSROOM: This method optimizes the time availability and gives a different approach to the learning process. By using this method the teacher can give preparation work to students at home and she can work on live problem solving during class-time. In this method students prepare the next lesson by working independently on a material (text video, image etc). Students have to understand the topic and prepare. The same lesson teacher will elaborate in class. This will help in engagement of students as well as improve their analytical interpretative assessment and creative competencies.

SMART / DIGITAL CLASSROOM: Students have grown up in a digital or smart world, with constant access to dynamic digital technology. So it is hard for them to be attracted to a piece of chalk and blackboard. Advancement of technology has come to the aid of education, enabling effective and creative presentation of a topic by using smart technology in the classroom. Smart board interactive panels/ projectors with software, pre-loaded content or online content are being used in this method. This method improves the interest of students and helps to define complicated concepts easily.

GAMIFICATION: This method incorporates game-like elements into the educational process to boost student motivation and engagement. By utilizing points, leader boards, and rewards, this approach sparks friendly competition and makes learning enjoyable. Students become more invested in their progress, leading to increased participation and improved outcomes. Gamification can be integrated across various subjects, transforming traditional lessons into captivating experiences that encourage students to actively pursue knowledge and understanding.

PROJECT-BASED LEARNING (PBL): Project-Based Learning (PBL) is an educational approach where students collaborate to

tackle real-world challenges or complex tasks. Through PBL, learners develop critical thinking, creativity, and teamwork skills as they work together to achieve a common goal. This method emphasizes the practical application of knowledge, connecting classroom concepts to real-life situations. By producing tangible outcomes like presentations or prototypes, students experience a sense of accomplishment and gain a deeper understanding of the subject matter, making PBL an effective and engaging teaching method.

PEER TEACHING: This is an educational strategy in which students assume the role of teachers, guiding each other through presentations, tutoring sessions, or group activities. This approach fosters collaboration and enhances comprehension, as explaining concepts to peers requires a solid grasp of the subject matter. Furthermore, peer teaching helps students develop communication and interpersonal skills, which are essential for success in the real world. By actively participating in the learning process, students become more engaged and invested in their education, leading to a more enriching learning experience.

INQUIRY-BASED LEARNING: Inquiry-Based Learning is an educational approach that emphasizes student-driven exploration and discovery. Rather than relying on direct instruction, teachers act as facilitators, guiding learners through a process of questioning, researching, and reflecting on various topics. This method stimulates curiosity and encourages students to take ownership of their learning experience. By actively engaging with the subject matter, learners develop critical thinking and problem-solving skills, which are crucial for success in today's complex world. Inquiry-Based Learning empowers students to become lifelong learners, equipped with the tools and mindset to adapt continuously and grow.

STORYTELLING: It is a powerful teaching method that employs narratives to convey complex concepts or historical events, making them more relatable and memorable. By presenting information in a story format, educators can capture students' attention, evoke emotions, and create lasting connections between ideas. Storytelling transcends subject boundaries, proving effective in areas such as science, math, and social studies. This engaging approach not only enhances comprehension but also promotes empathy and cultural understanding, enriching the overall learning experience and fostering well-rounded individuals.

MIND MAPPING: Mind Mapping is a teaching technique that encourages students to represent information visually and ideas using diagrams or charts. This approach enables learners to identify connections between concepts, making it easier to understand and recall complex topics. By organizing thoughts in a structured and visually appealing manner, mind mapping fosters improved memory, comprehension, and creativity. Students can apply this versatile tool across various subjects, helping them synthesize knowledge, brainstorm ideas, and strengthen their problem-solving abilities, ultimately leading to a more effective and engaging learning experience.

DIFFERENTIATED INSTRUCTION: This is a student-centered teaching approach that tailors content and methods to individual learning styles and abilities. Recognizing that each student has unique needs, educators employ various strategies, such as flexible grouping, tiered assignments, and multiple forms of assessment, to ensure every learner can thrive. By accommodating diverse learning preferences and

skill levels, differentiated instruction creates a more personalized and effective educational experience. This inclusive method fosters a supportive learning environment where students feel valued and empowered to reach their full potential.

ROLE-PLAYING AND SIMULATIONS: Role-Playing and Simulations are immersive teaching methods that engage students in real-life situations or historical events. By stepping into the shoes of different characters or navigating simulated scenarios, learners gain a deeper understanding of various perspectives and the complexities of decision-making. This experiential approach fosters empathy, critical thinking, and problem-solving skills, equipping students with valuable life competencies. Applicable to a wide range of subjects, role-playing and simulations transform traditional lessons into dynamic, interactive experiences that leave lasting impressions on students.



THE REVOLUTION OF INNOVATIVE PRACTICES IN EDUCATION: A DIVE INTO EDUREFORM'S DEBATE TOOL WITH MUSICAL CHAIRS

by
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(Ms. Padmakala Siva, Assistant Professor with Chitkara University Rajpura, has fifteen years of excellent expertise in the field of education. In addition to giving students the tools they need to succeed academically, her goal is to instill in them a sense of morality, self-worth, and confidence so they are ready to take on the difficulties of a career that is industry-focused. She has been acknowledged as a Master trainer for the EDUREFORM vocational training and has delivered Debate tools with her own innovation. Her passion is creating engaging learning activities for kids using cutting-edge teaching strategies.)

Innovative Practices in Education: Education is a vital aspect of our society that continuously evolves to meet the demands and expectations of an ever-changing world. Stepping away from traditional teaching methods, we now see the introduction of innovative practices in education. These modifications, such as adapting newer technologies or employing unique teaching styles, aim not only to enhance the learning experience but also to develop well-rounded individuals ready to face the real world.

BREAKING TRADITION: EDUREFORM'S DEBATE TOOL: One great example of innovative practices in education is the utilization of debate tools. Debating, as we all know, is a curricular activity that strengthens student's critical thinking, communication skills, problem-solving abilities, and even enhances their empathy.

EDUREFORM'S DEBATE TOOL: The Edureform Debate Tool is an interactive platform that enables students to participate in structured debates on a variety of topics. This tool not only encourages active discussion and collaboration amongst students, but also hones their critical thinking skills, teaches them to respect different perspectives, and nurtures their ability to articulate ideas effectively. Consequently, it cultivates a classroom environment that promotes growth and democratic discourse. Undoubtedly, this educational experience aims to mitigate the impact of the fourth industrial revolution on Indian society.

MUSICAL CHAIR: A HARMONIOUS BLEND OF LEARNING AND FUN: Now, imagine combining the Edureform Debate Tool with the Musical Chair – an unexpected yet innovative combination. The Edureform debate tool was introduced through a Musical Chair activity at Chitkara International School, with faculty

members from both Chandigarh and Panchkula taking part.

Engaging students in a 'musical chair' activity can effectively break the monotony of passive learning. It creates an active and fun environment that positively influences learning efficiency. To initiate this activity some topics will be displayed on the screen. Music is incorporated into lessons, the students move around the chairs and, whenever the music stops, they are encouraged to share their perspectives on the selected topics. The interactive approach to learning not only makes it more fun based, but also enhances students' critical thinking skills and communication skills.

CONCLUSION: Innovative practices in education are revolutionizing traditional teaching methods. The Edureform Debate Tool with Musical Chair continues to gain popularity in educational settings, making a clear indication that these innovative practices are instrumental in shaping the future of education. By infusing debates with music, educators are fostering critical thinking, creativity, and collaboration in their students. With this powerful combination, classrooms are becoming vibrant, harmonious spaces where education knows no boundaries.



EMBRACING INNOVATION: INSIGHTS FROM A TEACHER ON 21ST CENTURY EDUCATIONAL PRACTICES

by

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By employing innovative teaching practices, educators can offer unrestricted access to their top-tier content and solutions, enabling them to broaden their reach, attain their teaching goals, and maintain high-performance standards throughout their institution.

By the implementation of innovative practices in the teaching field, more emphasis should be given to “building character” rather than “attaining success”. Teachers can guide students to develop their personal effectiveness to achieve excellence and empower them to lead transformative changes that will make the world a better place. Here are some methods of innovative teaching practices which develop the performance of teacher and student in education.

IMPROVING CLASSROOM INSTRUCTION:

Before commencing their teaching, teachers set objectives, and they teach all students in the classroom with the intention of achieving those objectives in a uniform manner. However, the outcomes of teaching may not be identical for every student. In this context, innovative and effective teaching practices play a crucial role in achieving goals both qualitatively and quantitatively.

By providing clear instructions to students, the teacher ensures that students fully comprehend what is expected of them in terms of why they need to achieve, what they need to achieve, and how to achieve it in the classroom.

Good instructions should be short, simple, precise, easy to follow, repeated, demonstrated and easy to evaluate.

PSYCHOLOGICAL BASED CLASSROOM ACTIVITIES:

Many times, teachers find that some students are neither actively participating in class nor fulfilling their potential. In such situations, to capture their attention and engage them, teachers can implement psychological-based classroom activities as innovative practices.

As per the words of Dr. A. P. J. Abdul Kalam, "Having low aim is a crime." To impart the meaning of this thought, teachers can conduct a classroom activity where students are asked to write down the last number they believe they can count to within a single minute. After writing their estimates, the teacher then conducts an actual counting exercise in one minute. Through

this practical test, students often discover that they can count more numbers than they had initially imagined, leading them to realize the importance of setting higher aspirations and goals.

Like above, lots of psychological tests should be conducted in the classroom to help students realize their actual strength and potential, and thus, getting the best out of them.

Socrates demonstrated a new way of inquiry. One must keep on questioning one's assumptions till they falsify themselves or show that they are self-evident. After the development of questioning skills in students, it is easy for teachers to identify doubts of students and to evaluate students.

TEACH TO LEARN ACTIVITY:

'The best way to learn is to teach' In the teaching learning process, the role of teachers and students should be exchanged. If students play the role of teacher they dive deep into the concept, and in this process, they automatically learn more.

Joseph Joubert said to teach is to learn twice. To accomplish teacher's goal, teacher should give activities like seminars, presentation of PPT, research, designing information and presenting ideas. Such activities are helpful to both teacher and learner. By this method, teacher understand student's requirement so she can plan strategies for next lecture.

MEDITATION:

Health is a state of complete physical, mental and social well-being. For the physical health- nutritious midday meals are given to students, sports and mass PT are conducted that improve their physical health. However, for mental health, meditation is required. Before actual teaching activities, if students meditate for 10 to 12 minutes, it highly improves their memory, concentration, focus, peace, patience and creativity. It significantly lowers students' restlessness and negativity.

With these innovative practices, educators can unlock the true potential of students, instill a love for learning, and nurture well-rounded individuals capable of positively influencing society. Embracing such methods will continue to shape the future of education, fostering critical thinkers, problem solvers, and compassionate leaders who can drive sustainable growth and progress.

Opinion

Perspective on Groundbreaking Approaches and Innovations

by

Ms Anjali Chauhan

Project Manager at EDUREFORM



When we say Innovative practices in education, the only thing that comes to our mind is SCHOOL.... Indeed, education is not limited to the confines of the school and is a collaborative effort between schools, parents, and the wider community that can lead to more effective learning outcomes for students.

Innovative Pedagogical learning goes beyond the transmission of information; it focuses on fostering a deep understanding, critical thinking, and problem-solving skills among students. Effective pedagogy involves creating a dynamic and engaging learning environment where students actively participate, collaborate, and construct their knowledge. Innovative tools are designed to be interactive, visually appealing, and immersive, capturing students' attention and interest. This high level of engagement motivates students to participate actively in their learning, leading to better retention and understanding of the subject matter. Many innovative tools incorporate adaptive learning algorithms, allowing them to tailor the content and pace of instruction to each student's individual needs and learning style. This personalized approach ensures that students receive targeted support and challenges, fostering their academic growth. Innovative tools often promote active learning strategies, encouraging students to explore, experiment, and problem-solve. Hands-on activities and simulations make the learning process more dynamic, helping students develop critical thinking and practical skills. Pedagogical tools that collect data on student performance can provide valuable insights to educators. Analyzing this data helps identify learning trends, areas of improvement, and potential challenges, enabling teachers to make informed

instructional decisions.

I encourage everyone, be it teachers, tutors, and parents to explore and implement innovative practices and empower students by placing them at the center of their learning experiences, catering to their individual needs, and equipping them with the skills necessary for success in the modern world. By embracing these practices, students can become active participants in their education, develop critical skills, and cultivate a lifelong love for learning. You can create a dynamic and stimulating learning environment that prepares students for the challenges of the 21st century. Apart from the "book-ish" knowledge the students can start learning at a young age on various YouTube channels. These channels focus on the creative, critical and analytical learning of a student from a very young age. Do check these out, the links have been mentioned below:

It's AumSum Time:

<https://www.youtube.com/@AumSum/featured>

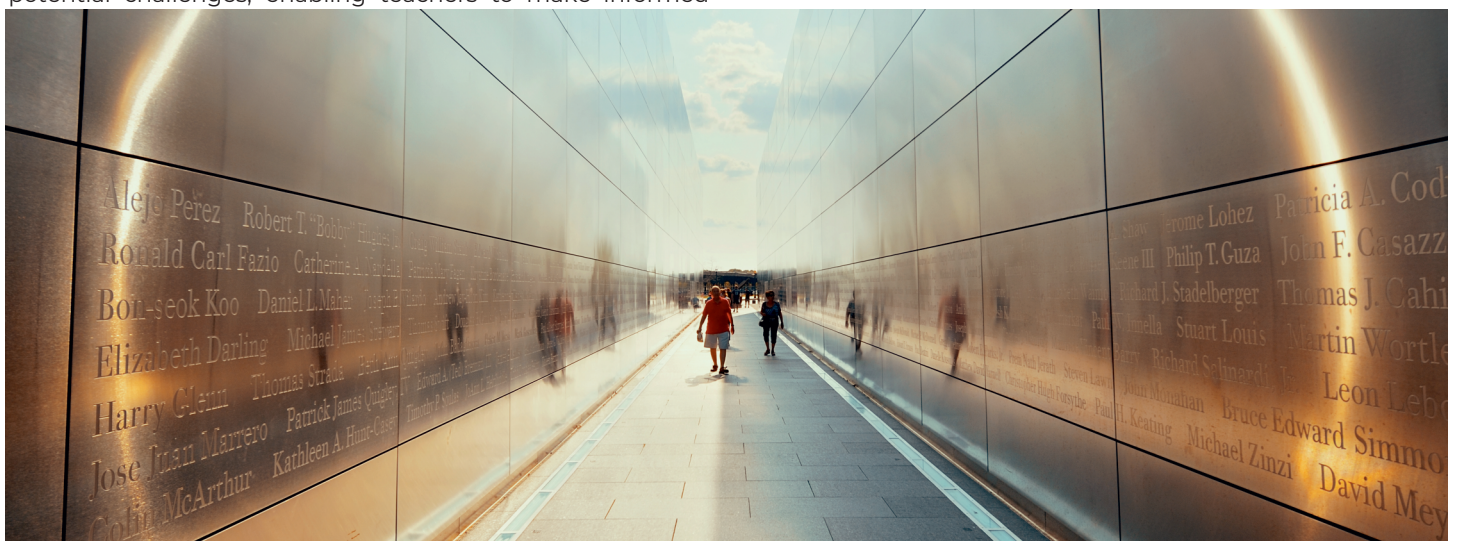
Peekaboo Kidz:

https://www.youtube.com/@Peekaboo_Kidz

Blippi - Educational Videos for Kids:

<https://www.youtube.com/@Blippi>

Disclaimer: The inclusion of YouTube channels as educational resources in the article is for informational purposes only. It is essential to exercise caution and parental supervision when allowing students to access online content, including YouTube videos.



TECHNOLOGICAL MARVELS UNVEILED

A GLIMPSE INTO THE INNOVATION DRIVEN WORLD OF CHITKARA INTERNATIONAL SCHOOL

by

**Dr. Niyati Chitkara | Dr. Honey Chitkara | Ms. Shalini Somra
Ms. Kanchan Gupta | Ms. Dolma Pathela**

TRAILBLAZING TOMORROW: AN INTRODUCTION TO THE TECHNOLOGICAL WONDERS

In today's fast paced and dynamic world, innovation has become the cornerstone of growth and advancement. In particular, the education sector has witnessed a transformation through the amalgamation of technology and innovative practices. In light of the same, Chitkara International School (CIS), in recent years, has emerged as a shining example of an institution that lays great emphasis on the significance of innovation in education. By leveraging a plethora of technology related initiatives, CIS has created a proactive learning environment that fosters creativity, critical thinking, and technological proficiency among its students.

EMBRACING INNOVATION: PIONEERING THE TECHNOLOGICAL FRONTIERS

CIS's commitment to innovation is evident in its wide range of technology-driven practices. *The school's pioneering Tek-8 programme introduces students to cutting-edge technologies through a comprehensive 8-level module comprising Robotics, Household Technology, Mobile Technology, Computer Science, Automobiles and Electronics.* Smart classrooms are yet another example of CIS's forward-thinking approach to education. These classrooms, equipped with advanced audio-visual aids, multimedia content, and internet connectivity, provide an interactive and immersive learning experience. The Wikipedia Station encourages responsible internet research, while i-consoles provide students with easy access to the SchoolPad. The ERP system streamlines administrative processes, optimizing school operations. Furthermore, the school's state-of-the-art Atal Tinkering Lab (ATL) fosters creativity and problem-solving skills, empowering students to explore their innovative potential.

The school's innovative ATL curriculum consists of 21 modules such as and much more. Recognising the value of student-led initiatives, CIS hosts a number of squads, including Techplore, Codegen, and Animedia Squads. These squads give students the opportunity to learn about technology, coding, animation, and media production while also developing teamwork and leadership skills. The I-Class Lab (Computer Lab) is a hub of innovation and technical exploration, where students actively engage with advanced tools and digital resources. Not to mention, the school's website offers a captivating 360 degree virtual tour, providing prospective parents and students with a comprehensive glimpse into the school's modern facilities and welcoming atmosphere. Teachers employ Canva Tool to create interactive presentations, enhancing the students' learning

experience. With 365 tool access, staff members can efficiently utilize Microsoft Office applications. Moreover, the Chitkara Infobyte disseminates circulars in audio format in Hindi, ensuring inclusivity. Also, the school boasts an impressive AR/VR library, offering students a cutting-edge learning experience. Furthermore, Tech Thursdays provide regular technology-related updates, fostering a culture of continuous learning. These cohesive and integrated hi-tech initiatives empower students and educators alike, equipping them to thrive in an ever-evolving digital landscape.

TRANSFORMATIVE TECH: THE PROFOUND IMPACT OF INNOVATION AT CHITKARA INTERNATIONAL SCHOOL

The integration of technology and innovation at CIS has had a profound effect on the learning journey of students. Students have been given access to modern technologies and tools, preparing them to be future-ready and adaptable, ready to face the challenges of a technology-driven world. Through its focus on innovation, CIS has not only empowered students with essential skills but also cultivated a culture of creativity and critical thinking, setting them on a path of lifelong learning and success.

EPILOGUE

Chitkara International School stands as a beacon of innovation and progressive education. The school prepares its students to thrive in an ever-changing world by embracing technology and cultivating a culture of creativity and critical thinking. As technology continues to shape the world, CIS remains committed to remaining at the forefront of educational innovation, empowering its students to lead the way to a brighter future.





G20 REPORT: KEY HIGHLIGHTS AND OUTCOMES

by

Nidhi Waldia, Innovation Manager, Savitribai Phule Pune University, featuring Shubhra Sen



NIPUN JHARKHAND MISSION:

A step from the government to bring forth innovation in education

Savitribai Phule Pune University, Pune, Maharashtra, hosted a significant educational event from June 17 to June 22, 2023. The exhibition and conference, inaugurated by Annapurna Devi, the Union Minister of State for Education, aimed to promote foundational literacy and numeracy, especially in blended learning. The exhibition featured over 100 exhibitors, including UNICEF, NSDC, and NCERT, showcasing innovative practices and research in education. As a perk of working as an innovation manager at Savitribai Phule Pune University, I got a chance to visit stalls of various organizations that are working rigorously on foundational literacy and numeracy and are using innovative ways to help India receive universal Foundational literacy. One of the stalls that caught my attention was the stall of NIPUN JHARKHAND. The vibrancy of learning resources on the stall encouraged me to learn more about this initiative of the government. While visiting the stall, I got a chance to meet fellow alumna from Azim Premji University, Ms. Shubra Sen, who was representing the NIPUN Jharkhand stall with other representatives from the Jharkhand government.

The stall showcased how Jharkhand state is actively promoting innovation in education to address the learning crisis and improve the quality of education for all children. In response to the World Development Report 2018, which highlighted the learning crisis in the Indian education system, Jharkhand has taken significant steps to enhance foundational literacy and numeracy skills among students.

To achieve this goal, the state has embraced the National Education Policy (NEP) 2020, which envisions a strong founda-

tional learning program through quality Early Childhood Care and Education (ECCE) and universal Foundational Literacy and Numeracy (FLN) in primary schools. The primary objective is to ensure that every child attains FLN Learning Outcomes by Grade 3 by 2026-27, recognizing that foundational learning forms the basis for future academic success.

Since its initiation in the state in 2022, Jharkhand has demonstrated remarkable progress in implementing the NIPUN Bharat Mission, a nationwide initiative led by the Department of School Education and Literacy. The mission involves the development and implementation of various FLN tool kits, baseline assessments, teacher capacity building, reading campaigns, and online monitoring mechanisms with the support of IPEL (India Partnership for Early Learning), a consortium of four organizations working as a PMU (Project Management Unit) for FLN under the Jharkhand Education Project Council (JEPC).

One of the key aspects of Jharkhand's approach to promoting innovation in education is prioritizing language inclusivity in primary education, particularly for tribal/home languages. The state conducted a groundbreaking baseline study on FLN in five tribal/home languages and Hindi. This study has laid the foundation for creating a roadmap for mother tongue-based multilingual classroom transaction processes. As part of this initiative, Jharkhand has developed multilingual books and a parental calendar, empowering teachers and parents to assist children in developing their reading and writing skills.

By emphasizing language inclusivity, embracing innovative tools and strategies, and implementing targeted programs, Jharkhand is actively working to improve the foundational learning outcomes of its students and prepare them for a successful academic journey beyond Grade 3. These efforts contribute significantly to addressing the learning crisis and advancing the quality of education in the state.

INNOVATIVE LEARNING STRATEGIES FOR MODERN PEDAGOGY

by
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Dr. Geeta Pathak is an Associate Professor in Guru RamDass College of Education, New Delhi. She is Ph.D. in Education, NET, SRF (UGC), M.Sc. (Mathematics), M.Ed. with an experience of more than 14 years as an Educator in Delhi. She has 4 books, 5 booklets, 18 Research Papers and 21 Action Researches to her credit. Her passion lies in Mathematics Education, Psychology of Learner, Guidance & Counselling and Action Research.

It is imperative that educators use cutting-edge practices that have been shown to be successful with today's tech-savvy pupils in order to effectively teach students in the 21st century. Here are seven international teaching strategies that are proving more effective than more conventional approaches. That said... They must be grasped and applied properly.



CROSSOVER LEARNING: Museums and after-school clubs are great examples of informal learning environments because they allow students to make connections between classroom material and real-world concerns. These ties can be used in either way. Classroom instruction can benefit from real-world examples and questions, while informal education can be enhanced by including classroom information and inquiries. Related experiences pique curiosity and encourage further study.

ARGUMENTATIVE LEARNING: Argument encourages students to consider alternative points of view, which can enrich their education. It opens up the process of technical reasoning to the general people. This is the first step in preparing students to analyze hypotheses, arguments, and rebuttals. As the focus moves from memorizing steps to understanding big ideas, students are less concerned with getting the right answers and more interested in the reasoning that led them to those answers. It encourage students to ask open-ended questions, restate their comments in more scientific terminology, and build and use models to explain concepts to create meaningful conversation in the classroom.

COLLABORATIVE LEARNING: Higher cognitive processes like reasoning, critical thinking, and reflection emerge in the context of social interactions and are then absorbed by the persons involved in the learning process. Collaborative learning is a teaching method that encourages students to work together to achieve a common goal, be it the completion of a

task or the development of a product. Learning is conceptualized as an inherently sociable activity. Active participation among peers, either in person or virtually, is essential to the learning process.



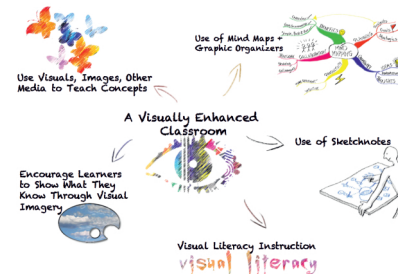
CONTEXT-BASED LEARNING: Learning from experience is facilitated by context. We learn the significance and meaning of new information by placing it in its cultural, historical and



geographical context and comparing it to our prior knowledge. We can shape context through everyday actions including having discussions,

taking notes, and adjusting everyday things. Context can also be learned through observation of the world around us.

VISUAL-BASED LEARNING: John Medina, a developmental molecular biologist, writes that "Vision Trumps All Other Senses" to underline the superiority of visual learning. All people, regardless of learning style, benefit from the use of visual aids. Concept Maps, Mind maps, maps, charts, diagrams, lists, study cards, and flashcards, as well as the use of audiovisual aids, are all examples of visual-based learning. The use of visual aids in the classroom has the potential to enliven lessons that might otherwise fall flat with students. Students will be more actively involved in the learning process and retain more of what they learn.



No matter how useful these innovative approaches to education may be, quality training for educators is essential for their implementation. Educators should have access to relevant information and practical strategies.



MASTER TRAINER'S INTERVIEW



Dr. Vidyanand S. Khandagale has immense interest in collaborative research activities. Being awarded as Junior Research Fellow, UGC in Education and has been awarded PhD in the area of Institutional Effectiveness, from University of Mumbai, started his career in academics as lecturer at Department of Education, SNDT Women University, Churchgate, Mumbai and later joined the Department of Education of Shivaji University, Kolhapur. The interview was conducted by Dr. Geetanjali Joshi, Innovation Manager, Shivaji University, Kolhapur.

What is your opinion about the EDUREFORM Book? Is it useful for teachers?

The book designed by EDUREFORM Project entitled, "EDUREFORM Handbook for Innovative Pedagogy" is useful for in-service and pre-service teachers of Secondary Schools affiliated to State Board and CBSE Board. It provides teachers with a valuable resource to enhance their teaching practices. It offers a diverse collection of teaching techniques and strategies that can be easily accessed and implemented in the classroom. This book equips teachers with effective methods to engage students, promote critical thinking, and foster a more dynamic learning environment. With a wide range of tools at their disposal, teachers can tailor their approach to meet the individual needs of their students and achieve better learning outcomes.

Does this book serves the purpose of giving knowledge about Innovative Teaching Methods To the pre and in-service teachers?

The National Education Policy introduced in India envisions a comprehensive, multidisciplinary, and holistic approach to education. Holistic Education helps in the all-round growth and development of children. The EDUREFORM pedagogical Tools included in the book indicate Activity Based Learning in the classrooms and helps teachers in the Holistic development of students.

What is your opinion about EDUREFORM Pedagogical Tools? Which tool do you find most interesting?

I think Computational Thinking is one of the most interesting tools given in the book. It talks about contextualization and application in the context of teaching. This tool develops various skills such as problem solving, analytical thinking and critical thinking skills among students.

What Are the special characteristics of EDUREFORM Pedagogical Tools as compared to traditional teaching methods?

Modern teaching methods in education include classrooms full

of technology, CCE mode of evaluation, cross-curricular connections, inquiry-based learning, concepts understanding, linking curriculum with life, emphasis on skill building, life skills and values, use of smart interactive boards etc. Traditional methods of teaching used in the schools include teacher-centric classrooms, teachers in the mode of knowledge dispensers rather than facilitators, chalk and talk methods, lack of collaboration and group learning. EDUREFORM Pedagogical Tools help in reducing the difference between traditional and modern teaching methods. EDUREFORM Pedagogical Tools are useful in developing analytical, critical and creative thinking skills among secondary school students. When teachers use these EDUREFORM pedagogical tools, the classroom environment becomes interactive and students take part in the teaching-learning process actively.

Comment on: "EDUREFORM Pedagogical tools are useful in developing Analytical, Critical and Creative thinking skills"

The statement is accurate. EDUREFORM Pedagogical tools are indeed beneficial in fostering and developing students' Analytical, Critical, and Creative thinking skills. These tools are designed to encourage active learning, problem-solving, and creative expression, which are essential components for developing well-rounded individuals and preparing them for success in various aspects of life. By integrating these tools into the teaching process, educators can effectively nurture students' cognitive abilities and equip them with valuable skills that are vital for their personal and professional growth.

Have you faced any difficulties in the execution of EDUREFORM Pedagogical Tools?

No, I didn't face any difficulty in the execution of EDUREFORM Pedagogical Tools because the EDUREFORM Pedagogical Tools are much elaborated and logically organized.

To which academic class have you taught using the EDUREFORM Pedagogical Tools?

I have used the EDUREFORM Pedagogical Tools for B.Ed.M.Ed. M.Ed. and Ph.D.courses in the Department of Education.NEP 2020 recognizes that teachers will require training in high-quality content as well as pedagogy. By 2030, teacher education will gradually be moved into multidisciplinary colleges and universities. The minimum degree qualification for our teachers will be a 4-year integrated B.Ed. degree that teaches a range of knowledge content and pedagogy. EDUREFORM Pedagogical tools are definitely helpful to create innovative teachers.

Do you think EDUREFORM Pedagogical Tools help in creating interactive classrooms?

Yes, as these tools are full of activities that help in creating a very interactive classroom. For example, while implementing these

tools, teachers can use storytelling, role play, presentations, online quizzes etc. and the classroom becomes interactive and live.

Have you achieved learning outcomes after implementation of EDUREFORM Pedagogical tools in the classroom?

Yes, learning outcomes have been achieved through these tools as per the content taught. From the positive feedback of the students, the teacher can conclude about learning outcomes.

What type of responses/feedback you received from the students?

Students gave positive feedback about the tools; they found teaching with the help of EDUREFORM Pedagogical Tools is very constructive and effective. When the teachers use EDUREFORM Pedagogical tools in teaching, the classroom processes become very interesting.



CHITKARA UNIVERSITY'S POWERFUL REFORM FOR TEACHING PROGRAMME- INTRODUCING CHITKARA COLLEGE OF EDUCATION'S EMPLOYABILITY BUILDING NEW AGE E-PORTFOLIOS

by
Dr. Niyati Chitkara | Dr. Sangeeta Pant | Dr. Parul Sood

INTRODUCTION: EMBRACING THE DIGITAL AGE OF EDUCATION

In today's rapidly evolving educational landscape, the significance of fostering innovation among young learners cannot be overstated. It is not only crucial to stay ahead of the competition but also to equip students with essential skills and competencies to thrive in the digital era. At Chitkara College of Education (CCE), innovation takes center stage in every aspect of its processes and learning methodologies. Inspired by the pioneering efforts of Chitkara International School, CCE's transformative initiative, the E-Portfolios, has emerged as a groundbreaking practice with profound benefits for Alpha Teachers and Alpha Master Students (B.Ed. and M.Ed. students).

E-PORTFOLIOS: A GATEWAY TO PERSONAL AND PROFESSIONAL GROWTH

E-Portfolios are digital repositories that capture and showcase a comprehensive collection of an individual's academic and professional achievements, experiences, reflections, and growth over time. They are powerful tools that leverage technology to enable students and educators to curate their own personalized and interactive narratives. By combining textual and multimedia elements, E-Portfolios offer a visually engaging platform for individuals to document, analyze, and present their learning journey in a dynamic and reader-friendly manner.

THE THREE-FOLD CYCLE OF E-PORTFOLIOS AT CCE

At Chitkara College of Education, E-Portfolios follow a struc-

tured three-fold cycle that empowers students and educators to maximize their potential:

ORIENTATION: EMBARKING ON THE JOURNEY

- Introduction to E-Portfolios
- Goal-setting and exploring functionalities

DATA COLLECTION AND REFLECTION: UNLEASHING BRILLIANCE

- Curating academic artifacts and reflections
- Fostering self-assessment and growth

IMPRESSIVE PRESENTATION: SHOWCASING EXCELLENCE

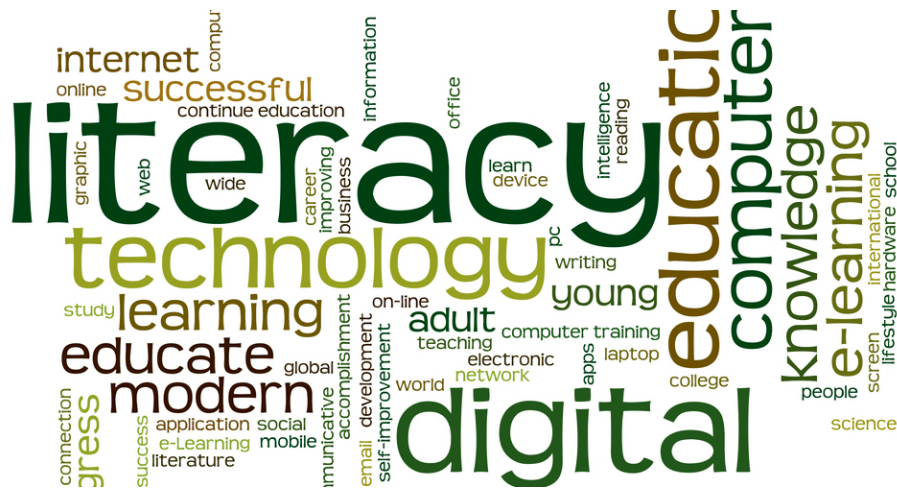
- Visually captivating showcases
- A powerful tool for employers and investors

RELEVANCE OF E-PORTFOLIOS: STRENGTHS AND SIGNIFICANCE

Unleashing the Power of E-Portfolios

E-Portfolios are more than just digital collections of academic achievements; they are gateways to a world of self-assessment, personal growth, and digital literacy. One of their primary strengths lies in their easy customization and accessibility. With multimedia-rich platforms, each student can personalize their E-Portfolio to reflect their unique identity and talents.

Beyond customization, E-Portfolios serve as motivators, encouraging students to take ownership of their learning journey and remain accountable for their progress. Engaging in self-reflection becomes a natural part of the process, leading to continuous professional development.



DIGITAL LITERACY SKILLS FOR THE MODERN AGE

In the technology-driven world we inhabit, digital literacy is a must-have skill. E-Portfolios provide a meaningful opportunity for students and educators alike to develop and showcase their digital literacy skills. Navigating through these digital treasure chests fosters critical digital competencies and enhances one's ability to communicate effectively in modern contexts.

SWOT ANALYSIS: CHARTING THE COURSE TO SUCCESS

An in-depth analysis of the strengths, weaknesses, opportunities, and threats (SWOT) of E-Portfolios helps students and educators chart their course to success.

- **STRENGTHS:** E-Portfolios offer a comprehensive platform for self-directed learning and growth, empowering individuals to take charge of their educational experiences.
- **WEAKNESSES:** Technical challenges and access to digital resources may pose barriers for some students and educators, but the CCE team is committed to providing support and assistance.
- **OPPORTUNITIES:** E-Portfolios open doors to global networking and collaborations, allowing individuals to expand their horizons beyond the classroom.
- **THREATS:** Safeguarding privacy and data security is of utmost importance when sharing personal information online. CCE ensures top-notch security measures to protect users' information.

KEY FEATURES OF E-PORTFOLIOS AT CCE

• Embarking on a Journey of Excellence

The E-Portfolios at CCE offer a plethora of key features that make the learning experience truly exceptional:

• Student Artifacts: Showcasing Brilliance

Students can curate a captivating collection of their best work, projects, essays, presentations, and reflections within their E-Portfolios. This compilation serves as a testament to their progress and growth over time, allowing them to witness their academic brilliance unfold.

• Staff Special Spaces: A Supportive Network

Educators and staff have designated spaces within E-Portfolios to share valuable feedback, insights, and recommendations. This fosters a collaborative and supportive learning environment, where the exchange of ideas and knowledge flourishes.

• Sharing & Showcases: Amplifying The Impact

E-Portfolios enable seamless sharing of accomplishments with peers, mentors, and potential employers. With just a click, students and educators can showcase their abilities and expertise, making a lasting impression on a global scale.

• Standards: Measuring Excellence

Aligned with predefined benchmarks and educational standards, E-Portfolios facilitate continuous improvement and excellence. They encourage students and educators to strive for their personal best.

• Empowering Student Internship Logging: E-Portfolios As Blog folio

At Chitkara College of Education, E-Portfolios serve as transformative Blogoholics, enabling students to log and document their internship experiences in an innovative and engaging manner. Acting as dynamic blogs, E-Portfolios allow students to share their real-world encounters, reflections, and achievements during internships. This unique blend of blog and portfolio creates a comprehensive narrative of students' practical learning and personal growth. Through Blogoholics, students can articulate their internship journey; infuse it with multimedia elements, and present tangible evidence of their professional development. As they seamlessly integrate academic knowledge with real-life experiences, students stand out as true innovators, equipped to make a lasting impact in their chosen fields.

THE EPILOGUE

As E-Portfolios become an integral part of Chitkara College of Education's educational landscape, they pave the way for Alpha Teachers and Alpha Master Students to shine brightly in their quest for excellence. By leveraging the power of digital documentation and reflection, these dynamic E-Portfolios empower individuals to stay ahead in the ever-changing world of education and stand out as true innovators and leaders. The journey of innovation and excellence continues at CCE, where a culture of creativity and continuous learning guides students and educators towards a future filled with boundless opportunities.

EDUREFORM Expo: A Transformational Journey Unveiled

-Chitkara School of Psychology and Counseling (CSPC)

“

We shouldn't teach great books, we should teach a love of reading. Knowing the contents of a few works of literature is a trivial achievement. Being inclined to go on reading is a great achievement.

”

~ **B.F. Skinner (Influential Behaviorist)**

We learn a lot from books, however, the learning that comes from experiencing those words in the books embarks a learning that can hardly be deleted from the brain. Expo's in today's time bring that medium which leaves a mark in the eye and mind of the audience.

Chitkara College of Education, Chitkara University organized EDUREFORM EXPO: The Pedagogical Workshop and Exhibition on 6th May 2023 with the inaugural ceremony held at Sun Hall and Expo at D-Art Gallery, Chitkara University. The EDUREFORM project, co-funded by the Erasmus plus programme of the European Union aims to promote creative, critical, and analytical thinking in the classrooms by training the pre-service and in-service teachers.

Under the leadership of Dr. Sangeeta Pant, coordinator of the EDUREFORM EXPO project, the expo focused on innovative pedagogical tools.

An entire day exhibition helped by Chitkara School of Psychology and Counseling (CSPC) spread awareness on psychometric testing, psychological awareness and its application in daily life. The aim was to promote an understanding of mental health, psyche, and personality with the help of psychological experiments, assessments and intervention. The exhibition also focused on spreading awareness about psychology, in the minds of people through assessments like – Pass along test, Weschler test of intelligence, Muller Iyer illusion, House-tree-person test, NEO FFI personality test, and Thematic apperception test. The expo of CSPC also included an experiment called “Lemon zest experiment”, and “Mind Catching”, along with this, an intervention was demonstrated “Let the bowl sing”.

The exhibition also has abstract illusion-based pictures in the stall which tells about the personality of the perceiver. This provides a glimpse of a creative and logical mind.

The psychometric tests implied are to understand the covert and over personality as well as the current state of mind. The tests involve drawing pictures, looking at pictures and telling stories which helps in understanding the past present and future traits and feelings. This helps in identifying the issues, desires, and needs they have been and are feeling in life.

Pass-along test, Weschler test of intelligence are helpful in providing an analysis of intelligence quotient. Intelligence is

not knowing and understanding the world ; rather , it is the capacity for abstraction, logic, awareness, learning, reasoning, and planning thinking that is imbibed verbally and in performance that can be very well found with such assessments.

Through decades individuals have been interested in predicting behavior and nature however, the authenticity and accuracy have never been this fine and crisp. The assessments and experiments provide a logical reason which cannot be nullified. Lemon zest experiment is an example, it provides a picture of being an introvert or an extrovert just by noticing the level of saliva secreted in the mouth after a few drops of lemon. This is because of the arousal state of the reticular activating system. Without an MRI, even our taste buds can provide us with information about our inner psyche.

The psychology exhibition also demonstrated “Let singing bowl”, which is an innovative technique to release stress, enhance peace and equanimity and alter the state of consciousness with the sound of a singing bowl. These words on vibratory frequencies alter the cells in the body. Researches show that any kind of heavy metal music, soothing or relaxing music alters moods. Thus, sound and music are new interventions researched in dealing with diseases and disorders.

Edureform expo has been the hallmark of opportunities to display and demonstrate the tools and experiments to be aware of different dimensions and scopes of psychology and education. Learning through books can provide information about the mind, the working of the mind, and personality; however, witnessing and experiencing is the form of learning that we all seek.



Innovative thoughts of a Global Teacher Award winner

Embracing Innovation in Education for A Sustainable Future



Dr. Muralidhar Kisan Bhanarkar

Assistant Professor, Department of Electronics
Shivaji University, Kolhapur

Dr. M. K. Bhanarkar is presently working as an Assistant Professor at the Department of Electronics, Shivaji University, Kolhapur. He has won the prestigious Global Teacher Award in the year 2021 as recognition of his contribution for the society, research and academic level.

When it comes to innovative teaching methods, Dr. M. K. Bhanarkar is always at the forefront. As a passionate advocate for e-waste management and sustainable technology, he has delivered a compelling radio talk on the subject. His message is clear: proper decomposition of electronic gadgets is essential to prevent harmful emissions, which can lead to severe health risks, including cancer. With the ever-increasing use of electronic devices, the issue of e-waste has become a pressing concern that demands our immediate attention.

In India alone, approximately 1.38 million personal computers are disposed of each year, contributing to a 10% annual rise in e-waste generation. This alarming trend poses a significant threat to our environment and public health. Toxic metallic pollutants like lead, cadmium, and beryllium, commonly found in electronic equipment, are responsible for environmental contamination and various health problems.

I firmly believe that teachers can play a crucial role in addressing this issue through innovative teaching methods that incorporate electronic devices. By introducing interactive and multimedia elements into lessons, educators can create a more engaging and effective learning experience for their tech-savvy students. Moreover, integrating e-waste management and sustainable technology topics into the curriculum can raise awareness among students about the responsible disposal of

electronic waste and its impact on our planet and well-being.

In today's digital era, technology and e-education have become indispensable components of the education system. I advocate for their strategic use to make learning more relevant and future-oriented. By embracing innovative teaching practices, teachers can equip their students with the necessary skills to navigate the ever-evolving technological landscape while instilling a sense of environmental responsibility.

It is our collective responsibility to ensure that our future generations inherit a sustainable and healthy planet. Education can be a powerful catalyst for change. We can foster a generation of mindful and responsible individuals. Let us embrace innovation in education and work together to create a brighter and greener future for all.



The Assessment Frontier: Pioneering New Paths in Education

by
Ms. Rekha Jadhawar



Rekha Jadhawar holds the position of Assistant Professor at Pratibha College of Education, which is affiliated with Savitribai Phule Pune University. Her current pursuits encompass a Ph.D. program, for which she secured a Junior Research Fellowship from UGC. Her scholarly interests revolve around assessment and evaluation, educational technology, teacher education, curriculum development, and early child care education. Notably, she boasts practical expertise in the realm of curriculum development.

Assessment plays a crucial role in education, evaluating both students' performance and the effectiveness of teaching. It involves measuring and evaluating students across cognitive, affective, and psycho-motor domains, leading to decisions and judgments. Throughout various educational policies, there have been debates on different assessment methods.

Assessment and evaluation have consistently been major concerns in policy documents due to their pivotal role in the teaching-learning process, accountability, and maintaining quality. Since the early days, spanning commissions like the Mudaliar commission (1952-53), Education commission (1964-66), National policy on education (NEP, 1968), The programme of action (POA, 1992), National curriculum framework, and the National Education Policy (NEP, 2020), debates have arisen on various assessment-related aspects. These include the use of external versus internal assessment, one-time examinations versus continuous and comprehensive evaluation, traditional assessment versus technology-enhanced assessment methods, and more. We can gauge the importance of examination reforms in educational policies and commissions from the quote from Radhakrishnan Commission (1948) "If we have to suggest one single reform in university education, it should be that of examination". With regard to the unfinished agendas from previous policies and to fulfill the educational aspirations of the people, NEP 2020 places significant emphasis on transforming assessment to optimize learning and development for all students. The key focus areas of this transformation are:

- **Promote learning and development of students; Focus on 'assessment for learning';**
- **Test higher-order skills (analysis, critical thinking, and conceptual clarity); and**
- **Help the entire schooling system in revising continuous teaching-learning processes to optimize learning.**

The policy further advocates for a 360-degree, holistic, multi-

dimensional report card that reflects in detail the progress as well as the uniqueness of each learner in all domains. NEP-2020 further proposes to set up the National Assessment Centre/PARAKH (Performance, Assessment, Review and Analysis of Knowledge for Holistic Development) with the basic objectives of setting norms and standards, and guidelines for student assessment, and evaluation for all recognized school boards in India. In the classroom, assessments serve three primary purposes:

- Assessment of learning
- Assessment for learning
- Assessment as learning

ASSESSMENT OF LEARNING

This type of assessment is grade-based and includes exams, portfolios, final projects, and standardized tests. Grades are assigned to inform teachers, parents, students, school-level officials, and district leaders about the level of student achievement. The types of assessment of learning include summative assessments, norm-referenced assessments, and criterion-referenced assessments.

ASSESSMENTS FOR LEARNING

Assessment for learning, also known as formative assessment, aims to improve students' individual understanding levels. It benefits both students and teachers by providing actionable feedback to enhance instruction. Teachers may consider questions such as "What lessons did the students retain from the lesson? Was this lesson too simple for the students? Too challenging? Did my teaching methods successfully reach the students? What is the most typical misconception among students? What was the lesson I most wanted my pupils to take away from it? Did I make it? There are lots of ways you can deliver assessments for learning, even in a busy classroom. types of assessment for learning: formative assessments and diagnostic assessments."

ASSESSMENT AS LEARNING

Assessment as learning actively involves students in the learning process. It helps students develop critical thinking and problem-solving skills while encouraging them to set achievable goals and objectively measure their progress. Research indicates that “in most cases, students cited target knowledge as the reason for a task being interesting and engaging, followed by how the topic was handled in class.

Innovative assessment methods encompass all three objectives of assessment. Here are some innovative trends in educational assessment:

- **Authentic Assessment:** Rather than relying solely on traditional tests, authentic assessments replicate real-life situations and activities. For instance, in a science class, students might conduct experiments and present their findings, simulating the work of actual scientists.
- **Technology-Enabled Assessment:** The integration of technology has revolutionized evaluation processes. Adaptive assessments, online quizzes, and interactive simulations offer personalized learning experiences. Technology provides diverse evaluation methods that customize learning experiences and efficiently gather data.
- **Formative Assessment Strategies:** Formative assessment has gained popularity as an effective approach to support student learning. Educators employ tactics like self-assessment, peer evaluation, and feedback loops to actively engage students in the learning process. These strategies help identify students' strengths and areas for improvement, facilitating continuous growth and development
- **Game-Based Assessment:** To boost student engagement, educators are adopting gamification and game-based

assessment methods. Introducing gaming elements into exams makes assessments more engaging and motivational. Additionally, game-based evaluations utilize games as the assessment tool, enabling students to demonstrate their knowledge and skills in a fun manner.

- **Multimodal and Alternative Assessments:** Recognizing the diverse talents and abilities of students, educators are embracing multimodal and alternative assessments. These assessments go beyond traditional written tests and embrace different forms of expression, such as audio recordings, videos, presentations, and artwork. By providing multiple avenues for students to demonstrate their understanding, these assessments promote inclusivity and honor individual strengths.
- **Data Analytics and Learning Analytics:** Harnessing the power of data analytics and learning analytics, educators can gain valuable insights into students' progress, preferences, and challenges. By analyzing patterns and trends in student data, educators can tailor instruction to meet individual needs and identify areas where additional support is required.

These innovative practices in educational assessment create opportunities for students to engage meaningfully with their learning, foster deeper understanding, and promote holistic development. As we continue to explore these practices, it is crucial to ensure ethical use of data, maintain equity and inclusivity, and engage in ongoing professional development to support educators in implementing these approaches effectively. We hope this has sparked your interest and inspired you to explore these innovative assessment practices further. By embracing these transformative approaches, we can create more dynamic, inclusive, and student-centered learning environments.



WORKSHOP AND EVENTS

Overview of EDUREFORM Vocational Training and International Events

by

Dr. Geetanjali Joshi

Innovation Manager, Shivaji University, Kolhapur

EDUREFORM Vocational Training for In-Service Secondary School Teachers

The EDUREFORM vocational training aimed to enhance the teachers' skill sets, equipping them with modern teaching techniques and strategies.

Vocational Training at Chitkara International School, Chandigarh

Dates: 26th-28th July, 2022

The first vocational training took place at Chitkara International School, Chandigarh. The training was a success in all forms – engaging discussions, interactive activities, fruitful debates, and definitely a lot of learning. This vocational training was a great start as 31 in-service teachers were trained. The EDUREFORM Vocational Trainings for teachers proved to be highly advantageous, providing numerous benefits to the participants.



Vocational Training at The Maharaja Sayajirao University of Baroda, Vadodra, Gujarat

Dates: 17th-19th January, 2023

EDUREFORM second vocational training for teachers took place at The Maharaja Sayajirao University of Baroda in January. The purpose was to give teachers first-hand exposure to the cutting-edge pedagogical tools of our EDUREFORM curricula. From a list of 22 pedagogies, 10 educational tools were chosen with the target audience in mind in order to provide detailed explanation of each tool. Master specialists from Indian Partner Universities attended as the experts for this session. All pedagogical tools were taught in a practical manner, by making the teachers interact and participate in a myriad of insightful activities. Approximately 37 in-service teachers were trained.

Vocational Training at Shivaji University, Kolhapur, Maharashtra

Dates: 27th-29th January, 2023

The third EDUREFORM Vocational Training was organized at Shivaji University, Kolhapur. Over the course of three days, a group of over 30 teachers from the Kolhapur region underwent vocational training, where they were introduced to a range of pedagogical tools. These tools included Integrated Interactive lesson plan, Debate, Concept Formation, Computational Thinking, Product Process Analysis, Brainwork, Multiperspective Teaching, Elixir and Poison, Microlearning, and Case Study. Also, participants got the opportunity to interact with European master trainers from the University of Latvia. Approximately 32 in-service teachers were trained. The secondary school teachers highly valued this training opportunity given to them to upscale their teaching methodologies and promote creativity, critical and analytical thinking skills in the classroom.





**Vocational Training at
Savitribai Phule Pune University, Pune, Maharashtra
Dates: 1st-3rd February, 2023**

EDUREFORM Vocational Training at Savitribai Phule Pune University, Pune, was organized in February 2023. During this vocational training, various pedagogical tools such as Concept Formation, Computational Thinking, Brainwork, Micro learning, Heads and Tails, Reflective Cheat sheet, Innovation Pedagogy, Multiperspective Teaching, Teacher to Innovation Coach, TEAL, 1+1=1, Product Process Analysis were included. An approximate of 33 in-service teachers were trained during this vocational training.

**Vocational Training at
CXS Solutions India Pvt. Ltd., Kochi, Kerala
Dates: 10th-12th April, 2023**

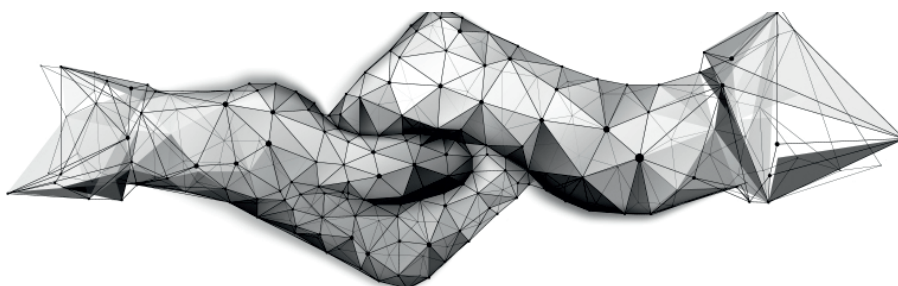
EDUREFORM Vocational Training was organized at Union Christian college, Kerala CXS Solutions Kochi, Kerala in April 2023. During this Vocational training various pedagogical tools such as Integrated Interactive lesson plan, Debate, Concept Formation, Computational Thinking, Brainwork, Elixir and Poison, Micro learning, Heads and Tails, Reflective Cheat sheet were taught. It was a comprehensive and enriching program designed to enhance the skills and knowledge of educators. The training focused on various aspects, including modern teaching techniques, innovative pedagogies, technology integration in classrooms, classroom management strategies, and effective assessment methods. Around 50 teachers in-service secondary school teachers were trained during this period of 3 days.



**Vocational Training at
Chitkara University, Rajpura, Punjab
Dates: 3rd-5th May, 2023**

EDUREFORM Vocational Training was organized at Chitkara University, Punjab in the month of May. During this vocational training, various pedagogical tools such as Integrated Interactive lesson plan, Open Book Environment, Debate, Innovation Pedagogy, Concept Formation, Computational Thinking, Product Process Analysis, Brainwork, Multiperspective Teaching, Reflective Cheat sheet were included. Teachers gained valuable insights into student-centered learning approaches, educational technology integration, and innovative pedagogies, allowing them to create more engaging and effective classroom experiences.

More than 50 teachers were trained this time, thus concluding the series of vocational training!



EDUREFORM INTERNATIONAL EVENTS

Edureform rethinks and enhances the education system to align it with the demands of the current technological age. As part of this effort, they have organized International Workshops, Exhibitions, and Symposiums at Indian Universities.



International workshop at The Maharaja Sayajirao University of Baroda Date: 20th January 2023

EDUREFORM's first international event organized by The Maharaja Sayajirao University of Baroda (MSU Baroda) was a successful academic international conference that gathered researchers and academics from across the globe in an online and offline manner. The topic selected for the call for papers and the title of the conference was 'Navigating Industrial Revolution 4.0: Unleashing strategies and maneuvering challenges'. The topic clearly aligned with the aim and goals of the EDUREFORM project. Various scholars, researchers and experts gathered on the issue and shed the light on education, 4th Industrial Revolution, innovative pedagogies, 21st century skills, teacher training. Around 30 participants attended the workshop.

International workshop at Shivaji University, Kolhapur Date: 30th January, 2023

The international workshop for the EDUREFORM Project was held at Shivaji University in Kolhapur. The topic was: 'EDUREFORM- Empowering Teachers for the Fourth Industrial Revolution'. It was a platform of sharing knowledge and best practices for teachers, educators, and policy makers to overcome the challenges of the 4th Industrial Revolution. The workshop gathered experts, teachers and faculties from education and related fields. Around 30 participants attended the workshop.



International workshop at Savitribai Phule Pune University, Pune Date: 4th February, 2023

The international workshop for the EDUREFORM Project was held at Shivaji University in Kolhapur. The topic was: 'EDUREFORM- Empowering Teachers for the Fourth Industrial Revolution'. It was a platform of sharing knowledge and best practices for teachers, educators, and policy makers to overcome the challenges of the 4th Industrial Revolution. The workshop gathered experts, teachers and faculties from education and related fields. Around 30 participants attended the workshop.

Public Dissemination Event EDUREFORM EXPO at Chitkara University

Date: 6th May, 2023

Chitkara University organized the EDUREFORM's public dissemination Event named as "EDUREFORM EXPO: The pedagogical workshop and exhibition". The event involved an expo featuring various innovative pedagogical tools, along with the models exhibited by various teams. Multiple teachers and scholars visited the event. The EDUREFORM Handbook for Innovative Pedagogy was launched during the inaugural of the event. Mr. Vasudevan Natarajan was invited to deliver his expert talk on "Reformations in EDUTECH Landscapes". He mainly focused on how teachers can use technology to go hand in hand with the education of students. Around 60 in-service teachers visited Chitkara University to get an experience of the EXPO.



KEEPING UP WITH EDUCATION

Now it's time to have some fun! With EDUINFORMER, you can engage your mind and give your neurons a workout through our collection of riddles and games!

RIDDLE 1:

In a code language, 'QUESTION' is written as 'RVFTUJPM'. How is 'ANSWER' written in that code?

RIDDLE 2:

I am taken from a mine and shut up in a wooden case, from which I am never released, and yet I am used by almost every person. What am I?



RIDDLE 3:

Two fathers and two sons go fishing. They each catch one fish, but when they return home, they only have three fish. How is this possible?



RIDDLE 4:

If Anshuman is the brother of Geet; Geet is the sister of Aditya; and Aditya is the father of Naina, how is Naina related to Anshuman?



RIDDLE 5:

I speak without a mouth and hear without ears. I have no body, but I come alive with the wind. What am I?



Interesting Independence Day Reads:

1. "India's Struggle for Independence" by Bipan Chandra:

A detailed account of India's freedom struggle, covering various aspects, key events, and prominent leaders who played a pivotal role in achieving independence.

2. "The Discovery of India" by Jawaharlal Nehru:

Explore country's rich cultural heritage, history, and the journey towards freedom. It presents a holistic view of India's past and the vision for its future.

3. "Freedom at Midnight" by Larry Collins and Dominique Lapierre:

Gripping narrative recounting the events leading up to India's independence and the midnight transfer of power.

4. "India After Gandhi: The History of the World's Largest Democracy" by Ramachandra Guha:

Delve into India's journey post-independence, covering the challenges, successes, and the evolution of its democratic institutions.

5. "The Great Indian Novel" by Shashi Tharoor:

Satirical and imaginative. A perfect blend of history and mythology, drawing parallels between India's struggle for independence and events from the Indian epic, Mahabharata.

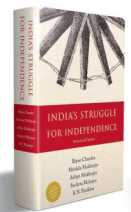
6. "Train to Pakistan" by Khushwant Singh:

While not directly about Independence Day, this powerful novel is set during the partition of India and Pakistan. Portrays the human cost and the emotional turmoil experienced during that tumultuous period.

8. "An Era of Darkness: The British Empire in India" by Shashi Tharoor:

Present a critical analysis of British colonial rule in India, shedding light on the exploitation, plunder, and lasting impact of British imperialism.

Happy reading!



Contact Us: Do you have a riddle you would like to share? You cannot find the answer to some of our games? Reach out to us on edureform@chitkara.edu.in

Embracing a Brighter Future: Concluding Thoughts



If you have made it this far, we extend our heartfelt gratitude for your appreciation of our content and your genuine interest in all that we share here at EDUREFORM.

Education is a fundamental human right, intricately tied to basic human rights such as the right to life and the right to dignity. Its purpose is to equip us with the tools to become independent, self-reliant individuals with critical and rational thinking abilities. Achieving self-reliance in our economy entails finding work that not only provides financial stability but also fosters psychological well-being.

However, the rapid advancement of the fourth industrial revolution has ushered in a transformation in job markets, leading to the emergence of new types of jobs. To remain employable in this dynamic landscape, it is imperative to stay relevant, and this necessitates continuous innovation in education and its processes.

In this newsletter, we have delved into various innovative practices within the educational sphere, encompassing content, pedagogy, assessment, and feedback. We also highlighted how governments are actively fostering educational innovations, offering a glimpse from the G20 at Savitribai Phule Pune University from the NIPUN Jharkhand Stall.

Our hope is that this newsletter has captivated your interest and inspired you to contribute to the advancement of educational innovations. By collectively working towards this goal, we can empower the younger generation to thrive in the world shaped by the fourth industrial revolution and lead lives filled with dignity.

Once again, thank you for your unwavering support and engagement with our content. Together, let's continue striving for transformative innovations in education.

by

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Co-funded by the
Erasmus+ Programme
of the European Union



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