

Modern Teaching Methods in Education

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Education plays a major role in the development of human civilisation. Since ancient times, learning has continuously evolved, and technological advancement continues to bring about many changes in this regard. We are all familiar with the traditional approaches to education, wherein a class of pupils receives instruction within the confines of a classroom. However, because of the advent of the internet and technological advancements, online learning is becoming increasingly popular, replacing traditional classroom settings. According to the current educational system, the physical classroom space limitation has been eliminated, benefiting a wide range of students simultaneously around the world. Online learning strategies greatly benefit students and make it more appealing for them, as they encourage increased engagement from students worldwide.

Modern teaching methods are the need of the hour as they promote students' continuous involvement and proficiency in technology. The primary objective of modern teaching strategies is to increase student engagement, make learning more dynamic, and make it relevant to them. These techniques encourage student motivation techniques promote cooperation, group dynamics, and the growth of social skills. Modern teaching techniques can enhance learning by utilizing technology and multimedia resources to create a more dynamic, inclusive, and participatory environment. The need for and use of the internet has grown in the modern world, and cell phones have become indispensable in our daily lives irrespective of where they are, students may continue their education without falling behind thanks to mobile devices and internet connection, active learning, and engagement. These techniques can help students become more imaginative, creative, and innovative. They can help the students improve their ability to think critically, solve problems, and make decisions. Modern instructional strategies encourage students to propose and introduce novel concepts. It encourages students to innovate instead of just following the rules. To completely engage students, the current teaching approach is actively based and learner-centered. In this day and age, technology is vital to the development and enhancement of students' learning processes. As a result, in this day and age, it is crucial to implement modern teaching techniques to guarantee that kids obtain a top-notch education that will equip them for the future. With the use of these techniques, students can acquire 21st-century abilities like communication, digital literacy, and global awareness, setting them up for success in the workforce and society as a whole.

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1. Introduction

Modern Teaching Techniques One Needs to Understand:

Teachers can use a variety of contemporary techniques in the classroom, but some of the most well-known and effective ones are as follows:

1. Collaborative Learning:

A modern method of education called collaborative learning encourages peer-to-peer communication and teamwork to solve complicated challenges and identify successful answers. Students who do this not only become more cooperative but also become exposed to a variety of viewpoints and ideas. It also gives students the chance to confront misunderstandings and eliminate misconceptions to draw deeper conclusions about the problems they face.

2. Spaced Learning:

Spaced learning is a teaching strategy where teachers repeat course material numerous times, with 10-minute intervals (or breaks between courses) to ensure that students fully understand the information. These students usually use these spaces to engage in physical activities or mindfulness exercises to help clear their minds and get ready for the next lecture on the same subject. The spaced learning approach lowers the "forgetting curve" and improves students' information retention.

3. Flipped Classroom:

This modern teaching method flips the traditional school homework pattern by having students study new material or content on their own at home and then practice it in class. This approach guarantees that students receive the support they require in the classroom to have their questions answered while giving them more time to understand the material.

4. Self-education:

Self-learning enhances motivation and lowers the quantity of material pupils are likely to forget by encouraging them to follow their curiosity when learning new subjects. To help students' brains develop the capacity for independent thought, instructors should encourage them to bring new ideas to the table for learning and exploration.

5. Gamification:

Since kids enjoy games so much, contemporary teaching techniques can take advantage of this to help develop fresh, more engaging learning environments where children can learn while having a good time. The gamification approach stimulates students' interest in learning, helps to inspire them, and gives them a solid foundation of new skills that support the growth of their critical thinking abilities.

6. VAK learning styles and VAK teaching:

To help students learn and retain important information, visual, auditory, and kinesthetic (movement) instruction, often known as the VAK teaching technique, uses three of their key sensory channels. Since these three approaches are usually how individuals learn, this teaching approach can be quite helpful.

7. Crossover Learning:

Designed to effectively bridge formal and casual learning environments, the crossover learning approach is a somewhat less popular but no less effective way to teach today's pupils. The classroom is considered a formal environment, but after-school activities, museums, and

seminars are examples of informal settings where students can use what they have learned in the classroom to gain new knowledge.

What are the Characteristics of Modern Teaching Methods?

1. Integration of Technology for Learning and Teaching

- Whether we accept it or not, technology plays a major role in education nowadays. Technology has completely changed the way we teach and learn, and it is now an essential component of education in the twenty-first century. The discussion has moved from whether technology should be utilized in education to how it might improve education by ensuring that all students have access to high-quality educational experiences, as stated by NETP (2017). (page 7)

- The educational environment has undergone a significant shift as a result of the widespread implementation of digital tools and materials. This integration includes everything from immersive learning platforms and educational applications to the use of electronic boards in schools.

- Students are more likely to use digital textbooks, take part in online forums, and turn in assignments using learning management systems like LMS or Google Classroom in modern classrooms. Technology is also used in personalized learning, where differentiated instruction can be accomplished due to adaptive learning systems that may meet the demands of each learner.

- To make sure that all learners may study at their convenience, platforms such as the website Quizlet and the Khan Academy, for example, offer specific paths to learning based on student achievement. Furthermore, technology in education is a field of study unto itself rather than only a tool for learning. Digital literacy, or knowing how to use technology sensibly and successfully, is now a required subject in schools.

2. Collaborative and Interactive Learning

- The transition toward interactive and collaborative learning is another significant aspect of 21st-century education. The "sage on the stage" is no longer important, and cooperative learning techniques are now in demand.

- The students increasingly cooperate to solve issues, complete projects, and participate in conversations in our classrooms, because of approaches like inquiry-based education, project-based education, and problem-based education, among numerous others, which have replaced teacher-entered instruction.

- Collaborative assignments, active (two-way) learning environments, and collaboration are all encouraged in collaborative learning. These interactive learning centers incorporate diverse teaching strategies, such as educational games, experiments, and virtual labs to increase student engagement and hands-on learning. With the help of these techniques, students are encouraged to participate fully and can apply their knowledge in real-life scenarios.

- Collaborative learning motivates students to feel responsible and accountable for their conduct. Students acquire abilities such as listening to various points of view, expressing their

views, and collaborating to accomplish a common objective. This change improves education while simultaneously preparing students for a world in which engaging and collaborative education will be highly valued.

3. Critical Thinking and Problem-Solving

- Critical thinking is "applied rationality...a set of skills that people can learn and apply in their everyday or professional lives," according to Finn (2011). Page 69. The method of carefully and reflectively examining and evaluating data or arguments is a key component of critical thinking abilities.
- On the contrary, problem-solving requires employing knowledge and critical thinking to identify solutions for difficult circumstances. Problem-solving is "the process of moving toward a goal when the path to that goal is uncertain," according to Martinez (1998)
- The ability to solve problems and critical thinking are two different but closely related abilities. Critical thinking is essentially concerned with applying an objective lens to the evaluation and analysis of ideas or information, with a focus on comprehending and evaluating various points of view.
- On another hand, problem-solving is primarily about using these crucial insights to develop practical solutions to specific challenges or situations. situation solving is the following stage when this understanding is applied to solve the current situation, whereas critical thinking provides the foundation for an extensive understanding of a problem.
- In the modern educational setting, having the capacity to think critically and solve problems is essential. Developing these abilities in the classroom may include a variety of techniques. For example, in project-based learning, students work on real-world issues and must evaluate the available data, apply reasoning, and come up with workable solutions.
- Inquiry-based learning develops critical thinking and problem-solving skills by encouraging students to seek answers to problems. Because students are actively involved in the learning process rather than just passively absorbing information, these approaches develop a deeper knowledge of the subject matter.

Several distinctive features of modern teaching approaches support the development of students' intellectual skills and abilities. A few of these essential qualities are as follows:

- **Learner-centred:** Contemporary teaching strategies, particularly in the context of basic science and technology (BST) curricula, are geared toward putting the learner front and center and preventing them from being viewed as basic implications in classroom interactions.
- **Task-Based or Activity-based:** To broaden students' knowledge, contemporary teaching methods instruct them through activities and specialized tasks.
- **Resource-Based:** Teachers who employ modern teaching techniques are frequently committed to encouraging their students' creativity by promoting the usage of various, practical project resources.
- **Interactive:** One of the most significant features of contemporary teaching approaches is the frequent interactivity of assignments, projects, and issues.

- **Peer Collaboration:** Students are encouraged to learn from their peers and educators in the modern classroom. Peer cooperation guarantees that students get all the help and criticism they require.

What Advantages Do Contemporary Teaching Methods Offer?

When implemented properly by motivated educators, contemporary teaching techniques provide students with many benefits. Among the most significant benefits that these techniques can offer are:

1. **Boost cognitive thinking abilities.**
2. **Support in prefrontal cortex development.**
3. **Emphasize growth as an individual.**
4. **Accommodate different learning styles.**
5. **Supply application-based skill development.**
6. **Give students the confidence to tackle difficult ideas, and let them modify and go over previously learned material.**

Differences between the Traditional Education System and the Modern Educational System

Traditional Education System	Modern Educational System
<p>Books, pencils, chalk, and blackboards are some of the traditional learning instruments used in traditional education. Enclosed behind classroom walls, students receive instruction from teachers who are there and receive direct support from them when they have questions or are experiencing difficulties with the material. The students are enrolled in the institution for a set term or duration and come to class every day. Numerous educational institutions still adhere to the traditional classroom learning model, which offers benefits of its own, including:</p>	<p>Applying the internet to access different websites has become a popular method of studying in recent times. Modern education has overcome the challenges posed by outdated teaching methods to transfer knowledge more flawlessly and effectively. Using websites or online platforms to deliver knowledge, it has drawn a diverse group of teachers and students to engage in technology-driven learning, allowing the delivery without regard to time constraints, student enrolment, or the growing acceptance and inclination of online learning. Constantly evolving to maintain the standard of instruction, online learning offers several advantages:</p>
<p>Social Exposure:</p> <p>Connecting students from all over the globe is usually an enjoyable and stress-relieving experience. It will stimulate students to learn further in addition to increasing the exchange of knowledge.</p>	<p>Flexibility:</p> <p>Professionals and part-time students equally can benefit from online learning because of its flexible scheduling, which eliminates the need for a set study period. Virtually everyone has a busy schedule, and a lot of people who stopped studying because of issues at work have started up again thanks to digital learning platforms. Furthermore, pupils had more time to devote to generating money. They increased their usage of low-cost paper writing services and improved their output at work.</p>
<p>Extracurricular Activities:</p> <p>In a group of people all the same age, learning can take the form of academic pursuits or other activities that foster appropriate learning. Not only can students participate in various activities, but classroom instruction will maximize their learning ability.</p>	<p>Cheaper:</p> <p>Online or digital learning is becoming more popular since it is comparatively less expensive than traditional classroom settings, saving on tuition, entrance fees, and other necessities. Students who want to study in far-off areas or abroad.</p>
<p>Appropriate Guidance:</p> <p>Having a topic teacher there allows for immediate resolution of any questions that may come up during the presentation. Additionally, it will encourage more interactions between</p>	

students and teachers, which will improve their learning capacity.	<p>Comprehensive Content Choice:</p> <p>Students can begin learning by choosing from a variety of courses offered through online learning. Online learning offers a wider variety of curricula and the flexibility to select several courses based on the learner's interests.</p>
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The Key Features and Goals of Contemporary Education:

The following are the essential elements of 21st-century learning:

1. Critical Thinking and Problem Solving: Motivating students to reflect carefully, challenge presumptions, and work through challenging situations.
2. Collaboration and Communication: Encouraging efficient collaboration and communication via digital and in-person channels.
3. Innovative thinking and creativity: Promoting unique ideas and the capacity to develop fresh concepts and solutions.
4. Digital knowledge: Giving pupils the tools to use technology sensibly and successfully.
5. Global Knowledge: Developing empathy and an open mind by promoting knowledge of international concerns and various cultural perspectives.
6. Continuous Learning: Developing a passion for education and equipping people with the knowledge and abilities to pursue independent lifelong learning. As we dissect the variations among various learning models, it is crucial to remember that education needs to be flexible, progressive, and in step with the needs of the modern world. By doing this, we implicitly recognize that our educational method must change to reflect the fact that the abilities required now differ from those of the past. To adequately prepare students for the realities of the current world, we must embrace these changes (as well as their mindset) and incorporate them into our teaching methods.

2. Conclusion:

Digital learning is evolving due to several modern instructional strategies. Teachers can employ methodology and teaching ideas that support critical thinking, active learning, and collaboration in the online classroom by investigating and using contemporary teaching approaches. Modern teaching methods are required to educate students in the present day since they challenge the concept of old methods that involve memorization and repetition of the syllabus. The finest teaching methods that foster the development of decision-making, problem-solving, and critical thinking abilities are contemporary ones. The innovative teaching methods boost student productivity and foster teamwork. Both approaches work well, but the question is what will be done now, and it is obvious how important it is to use contemporary teaching methods. Through encouraging student engagement, creative thinking, teamwork, and personalized instruction, modern teaching approaches have completely transformed the environment for learning. These methods, which range from project-based

learning to flipped classrooms, personalized learning to gamification, make use of cutting-edge educational ideas and technology to produce interesting and dynamic learning environments. You can turn the learning environment into an interactive, critical-thinking, and creative hotspot by implementing these techniques into your teaching style. Accept the changes in education and provide your students with the tools they need to be lifelong learners.

In conclusion, contemporary teaching techniques employ technological advances to enhance student engagement, develop critical thinking, as well as promote learning through collaboration. They generate exciting and collaborative learning environments that emphasize skill development and the ability to adapt. While both traditional and modern approaches have their advantages, contemporary techniques are more effective in terms of promoting positive attitudes towards subjects and communication.

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