

A Study on Contemporary Techniques in Teaching and Learning Process

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Abstract: *The modern teaching techniques are use of technology based study like LCD projector, Computers or Laptops with Wi-Fi Connection, Interactive Whiteboards. Due to Covid pandemic the entire teaching faculty had participated in online education system. In this study the researcher wants to highlight various contemporary teaching methods, which aren't only technology based but also user friendly. Hence there's need that all educational institution have to change their traditional setup to modern one.*

Keywords: Contemporary, Technology, Teaching methods

I. INTRODUCTION

The new pedagogics in other words the modern teaching approach is more activity-based and outcome based which focuses the learner's mind to involve entirely into the new process of learning. In the modern teaching approach, while preparing the teaching plan and designing curriculum, it's very crucial to keep the learner in mind as they are the primary target. Constructivist approach requires sharpening their skills and knowledge. On the opposite hand, the mentor or teacher cannot do at their own rather they only leads them or guides them to specialize in the objectives of the subject. This is almost done by engaging in activities and by adopting innovative modern teaching practices and techniques. Students of this generation demand for the contemporary teaching methods which helps in reducing the competition among the students encourage cooperation and create a healthy study environment. In recent years, we can see there are drastic changes in teaching practices. Opposite to the memorization and standard recitation practice to teach the students, now with modern teaching methods, interactive methods of teaching are introduced, and its result are often seen. This is generally accepted as an education reform because it evaluates students as per their understanding ability, unlike the traditional method of teaching. The modern teaching methods focus more on questioning, demonstration, explaining, demonstration, explaining practical, collaboration methods are more activity based rather than only teacher based.

1.1 Characteristics of Recent Teaching Methods

The modern teaching practices encourage building or enhancing a productive understanding of basic science and technology (BST). Hence, the contemporary teaching methods include:

A. Learner-Centered

Learner centered is one of the essential characteristics of the modern teaching methods which include basic science and technology (BST). It focuses on learners while using or applying during classroom and laboratory lectures. Here the teacher acts only as a guide and the learning process is done by students i.e., learners. Learners significantly appear as a dominator in. The learners dominate the classroom interactions.

B. Activity-Based

The teacher or guide of BST organizes activity or task and engages students to find out through this way. Hence it's an activity-based or commission-based. Students are offered or asked to require part in classroom interaction through these interactive activities.

C. Resource-Based

BST teachers should be resourceful. They have to collect and distribute all the required study material to the learners so that they can learn and understand the concept easily. The resources are collected from the school environment or any other place where it is available. Also, a learner is the source to bring study material or resources from their end.

D. Interactive in Nature

One characteristic defines the fashionable teaching method as very interactive. In this method the teacher asks the students to form small groups or work as individuals to perform the learning tasks given and come up with the desired results or conclusion. It helps them to collect knowledge from one another. Students learn to figure together and a sense of cooperation. It helps them when they step out in the outer world.

E. Integrative in Nature

One of the vibrant characteristics of modern teaching methods is it is integrative. Teachers link topics of a subject with the related contents, e.g., science topics like drug use, violence, safety, pollution, food distribution, crime etc. to other issues and make it integrative. By this, a learner can gain in-depth knowledge about the topic.

F. Peer Collaboration

Modern teaching methods encourage the students to present their ideas, initiate response and to do research. There is also support towards students interest, needs, and feelings. Through Instructional activities, students learn how to cooperate to perform a task, and also they appreciate their competitors' work. Within the BST curriculum, learner's interests are considered most vital, and that they are guided towards their goals and careers.

1.2 Objectives

1. To understand the varied contemporary teaching methods
2. To realize the various advantages of contemporary teaching methods.

II. METHODOLOGY

Secondary Data were collected from various Articles, Journals, Magazines, different websites.

2.1 Contemporary Teaching Methods

A. Collaborative Learning

Earlier, when students were asked to revise the subject or syllabus during an examination or regular days, they won't revise the syllabus in isolation or at home. This was a regular practice of traditional teaching methods. To cater to this issue or provide a more useful platform for students, schools are arising with collaborative learning. During this modern teaching method, teachers form a gaggle of students where they can solve their problem, debates on topics, and clear their queries. This supports in developing societal skills and allows students to know the subject sooner.

In this modern teaching method, every student may be a part of the success of a group as they help each other to reach the desired result, and that they also learn to communicate with each other. Learners learn to tolerate others, develop skills to concentrate to others and how to work in a team. In this learning they meet with different personalities and can get a genuine review of their work.

Students present their ideas and expect a response once they are in group learning. It helps them in exchanging their creativity and also in gaining knowledge. In return, it helps them to find out to face healthy criticism and cross-questions. So, all the Educational institutions management should prefer to take up a collaborative method of teaching for the students.

B. Spaced Learning

Spaced learning is one among the modern teaching methods, which is being followed by teachers. In this method the teachers repeats a lesson until and unless the student understands it completely. Here the teacher repeats the content with 10-minute spaces (break) in-between the teachings.

The gap is taken in order to refresh the mind by having physical activities or mindfulness techniques which prepares them for the next session of the same lesson. This method gives the scholars intervals to inherit the knowledge and create connections between learning's. Before moving forward to a different chapter, this method prepares the scholars with basics.

It truly defines a saying that a healthy mind is in a healthy body. The physical state of mind of the students should be grown well so that there would be growth of mental state which helps them to knowledge. Spaced learning also helps to reduce obesity in school-going children which can be seen more nowadays. It improves both mental and physical state of a student.

C. Flipped Classroom

Flipped Classroom may be a well-known term in the pedagogical method. You've got known about this undoubtedly. Its name 'Flipped Classroom' makes it unique. It's one of the very vital modern teaching methods that have been in use these days. During this method of teaching, the teaching procedure takes place during a flipped manner.

As unlike traditional ways, students study new material or content reception by themselves and practice the same at school. The method is the reverse of providing content at school that informs students to rework on it or practice it at home. The students do practice of this method by watching online video or data shared by the teacher. They do the home work at institution and understand the content at home prior to the class.

Through the practice of flipped Classroom modern teaching methods, students get enough time to understand the topic, unlike school where they get only some minutes to understand the content. If necessary, they will work more on one issue.

Students prepare themselves with the content before arriving in class, and if they face any doubt, they will discuss it in the Classroom or ask the concerned teacher. In the discussion new ideas generate and they can explore new methods. One advantage of this method is students study is not lost due to sick leave as he can be at home and understand the content.

D. Self-Learning

Curiosity pushes the learner to find out new and more always. It enables the learners to find the ways to memorize the large content of the text which they forget. Through their curiosity, students get motivated to explore the themes they are interested in. They find results themselves which helps them to be self-dependent and gives them a deep understanding of the content.

Students are encouraged to bring new ideas and work for their development. This contemporary teaching method plays a significant role in learners' period of education.

E. Gamification

Children love playing games and gamification is a concept in which through games students are made to learn the content easily. The importance of Gamification in teaching is increasing tremendously. Learning while playing motivates students of all ages to learn the concept very easily.

The responsibility of teaching through Gamification is of teachers as they ought to plan or design projects that will be suitable for the students of their respective age. The projects should be attractive so that students connect themselves and keep their interest alive. Online platforms can be used by teachers under Gamification. Teachers can conduct online quiz, puzzles or brain games. This is fun learning method.

F. VAK Teaching

VAK is a teaching method in which students are divided into three categories i.e., Audio, Visual and Kinesthetic (movement) in which each student should know to which category he/she belongs to or the teacher must know to which category the student belong to

In VAK, V means visual i.e., understanding by seeing the information. A is Audio means gathering information by hearing the info, and K is kinesthetic means feeling the information. An instructor should keep in mind that students understand the concept either by any of the three categories. So, they have to present the same data in different ways.



The VAK pedagogics was introduced in the 1920s which help children with dyslexia. However, its impact is simpler in the modern era. Within the time of the internet, watching and learning through videos has become a well-liked new medium of teaching. Students grasp fast once they see, hear or feel rather than reading the material. There is no limitation in using any methods the learners can use all the medium of instruction

2.2 Learning Crossover

The not-so-common modern pedagogics is Crossover learning which uses both formal and informal teaching and learning environments. It's one of the perfect ways to give the best education to learners. Crossover learning efficiently engages learners and provides authentic and innovative results.

A formal setting is a traditional setting, i.e., Classroom to supply education. While, the informal environment of teaching is museums, seminars, and after-school places. Schools and colleges teach with content, study material and use every day experiences to feature knowledge. On the opposite hand, informal learning generates curiosity and interest and increases understanding by asking inquiries to their teacher. Teachers should introduce new queries or questions within the formal setting and answers for which students should try to find in informal settings such as by exploring that question on their museum visit. The learners can take notes or collect pictures because the data and produce them as the information once they backed in the Classroom, they will share collected information with other classmates and can discuss it for better results.

III. ADVANTAGES

1. The prefrontal cortex of the brain is typically most affected by uncontrollable stress and depression. This part plays a big role in the speech outcome, behavioral outcome, expressive outcome, etc. which is essential functions of the brain. It's also useful with the memory boost and thinking abilities of an individual.
2. The fashionable teaching techniques, like said, focuses more on the core thinking abilities and hence activates the right mechanism of the prefrontal cortex. The functions of the prefrontal cortex are considered superior, and triggering them would be the best-explored advantage of those modern teaching techniques. Therefore it's an obvious and one of the most significant merits that come along with the implementation of modern teaching methods.
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5. Exploration of things where the interest lies in is an important part of personal development. The method also provokes self-learning and makes sure it is directed in the right amount. The practice of the fashionable teaching methods provokes this same set of interests which are to be explored by the students with proper and enough assistance from the teachers.
6. Exploring the items on one's own is one of the most productive initiatives by an individual and the maximum possible support from an efficient teaching system makes sure that the process is fruitful and dynamic. The fashionable teaching methods believe in providing them with enough freedom, flexibility and facilities to explore their interests.

IV. CONCLUSION

On the basis of above discussion the researcher concluded that contemporary or modern teaching techniques help the learners and teachers in teaching -learning process and also to acquaint themselves with the modern methods.

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