

EDUCATIONAL EVALUATION OF AN INTERACTIVE MULTIMEDIA LEARNING PLATFORM AND PURPOSE OF MODERN EDUCATION TYPES

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ABSTRACT

Using multimedia technologies opens new opportunities in educational process as well as in development of creative abilities of students. Educators, scientists, programmers, producers of multimedia teaching aids, teachers-practitioners all together open new informational educational environment where the determinant is integration of educational and informational approaches to educational content, methods and learning technologies.

Key words: *Key purposes of modern education, multimedia technologies, informational base of educational process, modern pedagogical technologies, Modern Teaching Methods, Characteristics of Modern Teaching Methods, Advantages of Modern Teaching Methods, visualization of knowledge, interactive interface, demonstration of visual materials, creative thinking, multimedia equipment, electronic learning systems.*

АННОТАЦИЯ

Использование мультимедийных технологий открывает новые возможности как в учебном процессе, так и в развитии творческих способностей студентов. Педагоги, ученые, программисты, производители мультимедийных учебных пособий, педагоги-практики - все вместе открывают новую информационную образовательную среду, определяющей фактором которой является интеграция образовательного и информационного подходов к содержанию, методам и технологиям обучения.

Ключевые слова: *основные цели современного образования, мультимедийные технологии, информационная база учебного процесса, современные педагогические технологии, современные методы обучения, характеристики современных методов обучения, преимущества современных методов обучения, визуализация знаний, интерактивный интерфейс, демонстрация наглядных материалов, творческое мышление, мультимедийное оборудование, электронные системы обучения.*

INTRODUCTION

Modern pedagogical technologies

The peculiarity of federal state educational standards of general education is their activity-oriented nature, which makes the development of the student's personality the main task. Modern education is rejecting the traditional presentation of learning outcomes in the form of knowledge, skills and abilities.

The task posed requires a transition to a new systemic-activity educational paradigm, which, in turn, is associated with fundamental changes in the activities of a teacher who implements a new standard. Teaching technologies are also changing, the introduction of information and communication technologies (ICT) opens up significant opportunities for expanding the educational framework for each subject in an educational institution.

In the context of the implementation of the requirements of modern student education, the most relevant technologies are:

1. Information and communication technology
2. Technology for the development of critical thinking
3. Design technology
4. Technology of developing education
5. Health-saving technologies
6. Technology of problem learning
7. Game technologies
8. Modular technology
9. Workshop technology
10. Case - technology
11. Technology of integrated learning
12. Pedagogy of cooperation.
13. Technologies of level differentiation
14. Group technologies.
15. Traditional technologies.

DISCUSSION AND RESULTS

Modern Teaching Methods

“The teaching method which focuses more on teaching the students for improving their intellect behavior by using various new and innovative ideas rather than making them recite the syllabus to clear the examination with the same old style is Modern Teaching Methods in simple words.”

The new teaching method which we called the modern teaching method is more activity-based and centres the learner's mind which involves them entirely into the process of learning. In the modern teaching method, curriculum teaching and planning are done keeping the learner as the primary target.

Through this way, learners actively participate in the whole process to build their knowledge and sharpen their skills; this is also termed as a constructivist approach. On the other hand, the mentor or teacher only leads them and guides them to focus on the objectives of the subject. This is all done by engaging in activities and by adopting innovative modern teaching methods. New demand of the era or the need of the hour for students is to embrace the contemporary teaching methods which will also help in reducing the competition among the students, promote cooperation, and boost the health study environment.

Reasons to Introduce Modern Teaching Method

In recent years, the scope of knowledge in the field of science and technology has dramatically increased, and human's ability to adapt to new knowledge in science and technology has also increased. So, there is an immense need for innovative and creative minds to explore unknown and unrevealed areas of different fields. To cope up with the modern world and the knowledge-driven era of technology, adopting modern ways are the only means to survive.

So, the students should be taught in a manner to tackle the 21st century, which is technology-driven time and which requires creative and innovative minds for the progress of individuals, society, and nation. The students should be introduced with modern teaching methods and are provided sufficient knowledge so that they can create opportunities for themselves and others.

Reasons to Introduce Modern Teaching Method

Teachers still use a conventional chalk-talk method in the Classroom to teach students who can provide only basic knowledge of science and other subjects. Their approach can no longer be used as this is outdated, is with limited scope, and has been failed both at the nation and personal level.

If teachers teach with modern teaching methods instead of traditional impractical methods and present science lessons in a more proper scientific way, then many problems, including unemployment, can be overcome. All this can be achieved by providing a strong pillar to the Basic Education system and senior secondary school system. It requires an instant review of curriculum, and it is the reason why modern teaching methods are introduced.

Characteristics of Modern Teaching Methods

The modern teaching methods help to build or develop a productive understanding of basic science and technology (BST). Hence, the elements of contemporary teaching methods include:

1. Learner-centered

One of the essential characteristics of the modern teaching methods in basic science and technology (BST) is it is learner-centred. It focuses on learners while using or applying during classroom and laboratory lectures. The teacher acts only as a guide, and all the learning process involves learners. Learners significantly appear as a dominator in classroom interactions.

2. Task-Based or Activity-based

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

3. Resource-Based

BST teachers should be resourceful. They should collect and distribute all the required study material to the learners for their learning or to understand the topic clearly. The resources can be collected from the school environment or any other place where it is available. Also, a learner can be the source to bring study material or resources from their end.

4. Interactive in Nature

One characteristic defines the modern teaching method as very interactive. The teacher asks the students to form small groups or work as individuals to perform the learning tasks and come up with the desired results. It helps them to gather knowledge from one another. Students learn to work together and a sense of cooperation. It also works in their favour when they step out in the outer world.

5. Integrative in Nature

One of the vital characteristics of modern teaching methods is it is integrative. Teachers link topics of one subject, e.g., social science topics like drug use, domestic violence, safety, pollution, food distribution, crime etc. to other issues and make it integrative. By this, a learner can gain knowledge of more topics studying one.

6. Peer Collaboration

Modern teaching methods not only encourage students by allowing them to present their ideas or initiative by noticing their responses, studying their research, and allowing them to answer during interaction in BST classes but also selects students based on interest, needs, and feelings. Through Instructional activities,

students learn to work cooperatively, and they appreciate their competitors' work as well. In the BST curriculum, learner's interests are considered most important, and they are guided towards their goals and careers.

Following are the modern teaching methods:

Collaborative Learning

Earlier, when students were asked to revise the topic or syllabus during an examination or regular days, they used to revise the syllabus in isolation or at home. This practise was widespread in traditional teaching methods. To deal with this issue or provide a more useful platform for students, schools are coming up with collaborative learning. In this modern teaching method, teachers form a group of students where they can solve their problem, debates on topics, and clear their queries. This helps in developing social skills and allows students to understand the subject faster.

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

Students present their ideas and expect a response when they are in group learning. It allows them to exchange their creativity and gain more knowledge. In return, it helps them to learn to face healthy criticism and cross-questions. So, school management should choose to take up a collaborative method of teaching to teach their students. They just need to make a few changes in the layout of the Classroom. Replace desks to whiteboard surfaces. So, the groups can work together with ease.

Spaced Learning

Spaced learning is one of the modern teaching methods, which is being followed by teachers. In this method, teachers repeat a lesson multiple times, basically until the students understand entirely. However, the teacher repeats the course with two 10-minute spaces (break) in-between the lessons.

The gap is meant to refresh the mind by playing physical activities or mindfulness techniques which prepares them for the next session of the same lesson. This method gives the students intervals to inherit the knowledge and create connections between learnings. Before moving forward to another chapter, this method prepares the students with basics.

It truly defines a proverb that a healthy mind is in a healthy body. So, the physical state of students should be sufficient to the growth of mental state which is

crucial to gain knowledge. Spaced learning also has a scope to reduce obesity in school-going children which can be seen more nowadays. It improves both mental and physical health of a student.

Flipped Classroom

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

As unlike traditional ways, students study new material or content at home by themselves and practice the same at school. The method is the reverse of providing content at school and asks students to rework on it or practice it at home. The students practice this method at home by watching a video tutorial, search online, or work on the content usually shared by the teacher. They do not need to complete the homework at home. Instead, they end it at school.

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

Students prepare themselves with the content before arriving in school, and if they face any doubt, they can discuss it in the Classroom or ask the concerned teacher. They can also suggest their ideas related to the content and share it with other classmates. Moreover, there is another advantage of this modern teaching method that students would not have to suffer due to their sickness. Sick days won't interrupt their learning.

Self-learning

Curiosity pushes the learner to learn new and more always. It drives the learners to learn and memorize large spaces of the text that they will either miss gratefully or forget immediately. Through their curiosity, students get motivated to explore the subjects they are interested in. Teaching students to operate the internet and find results themselves helps them to be self-dependent and gives them a deep understanding of the content.

A teacher should allow the students to bring new ideas and work on it for the development of their brain and ability to work alone. This modern teaching method plays a significant role in learners' period of education.

Gamification

It is a well-known fact that children love games either it is online games or playing games at the field. Teaching through games is one of the essential modern

teaching methods that has been in use under modern teaching ways. The significance of Gamification in teaching has mostly been seen in the elementary and preschool system. Learning through playing games won't be even realized by students. It motivated students as well and proved effective not only to the students of preschool but of any age.

The responsibility of teaching through Gamification is of teachers as they should plan or design projects that will be suitable for the students of their respective age. They should incorporate attractive measures to connect the students for a longer time and keep their interest alive. Teachers can also take help of the online platform under Gamification. Teachers can organize online quiz, puzzles or brain games. This modern teaching method is a fun learning method to teach.

VAK teaching

VAK is a modern teaching method whose effects can be seen clearly. We divide learner into three categories: Visual, Audio, and kinesthetic (movement). One needs to recognize to which category they belong to or the teacher must know to which category her students relate to.

In VAK, V is visual means seeing the data, A is Audio means gathering information by hearing the data, and K is Kinesthetic means feeling the data. A teacher should keep the category of students in kind while teaching because some students catch the information by seeing, by hearing or by feeling. So, they should present the same material in different ways.

The VAK teaching method was introduced in the 1920s to help children with dyslexia. However, its impact is more effective in the modern era. In the time of the internet, watching and learning through videos has become a popular new medium of teaching. Students grasp fast when they see, hear or feel instead of reading the material. And also, a learner is not limited to any one of the media as they can use even all three mediums of instruction.

Crossover Learning

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

A formal setting is a traditional setting, i.e., Classroom to provide education. While, the informal environment of teaching is museums, seminars, and after-school places. Schools and colleges teach with content, study material and use everyday experiences to add knowledge. On the other hand, informal learning generates

curiosity and interest and increases understanding by asking questions to their teachers.

CONCLUSION

Teachers should introduce new queries or questions in 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 as their data and produce them as the information once they backed in the Classroom. They can share collected information with other classmates and can discuss it for better results.

Advantages of Modern Teaching Methods

Modern teaching methods have many advantages. However, these advantages are the disadvantages of traditional teaching methods.

- Unlike traditional teaching methods, modern teaching methods are more interactive and keep students intact. It maintains the interest of students by animations and videos.

- The visual medium is way better than any other medium to give instructions. It helps to memorize the concept fast and for a more extended period than reading.

- Modern teaching methods are less time-consuming. Teachers take less time to cover the syllabus. Writing on the blackboard is not required.

- Blackboard explanation of content is less explanatory than a representation of videos and animations used in the modern teaching methods.

Key purposes of modern education

To foster essential life skills, critical thinking, decision-making skills and analytical competencies in its learners.

To facilitate a positive approach towards diversity, inclusion, compassion and a sense of responsibility in students.

To create a fun and engaging learning process.

To incorporate educational technology to make the learning environment more experiential with a key focus on real-world applications of concepts.

To ensure that learning and education reach every corner of the world whether through physical classrooms or online learning.

To build an equal relationship between the teacher and learner and foster the curiosity of students and teach them to inquire and ask questions rather than the passive traditional approach.

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