



VIRTUAL REALITY AND AUGMENTED REALITY IN TEACHING OF SOCIAL SCIENCES TECHNOLOGY IN CLASSROOM – “ONE SIZE FITS ALL APPROACH”

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Abstract:

We have seen that education doesn't have to stop just because schools are closed, and that traditional teaching approaches are not always conducive to nurturing well-rounded, independent thinkers. We are also living in a digital age with a generation of students who have grown up confident using technology and consuming content through digital devices. Through harnessing ICT tools, we can explore new ways of teaching and engaging with children who might have been 'closed-off' to traditional teaching methods. One such method which has become increasingly popular during the pandemic is flipped classroom learning.

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Introduction

“The online teaching model cannot replace the awesome balance that flipping allows a teacher in her classroom”. Teaching is one way process where students are mostly passive. With the increasing expectations from school to develop 21st century skills in students, there is an urgent need for the schools to change their approach towards teaching and learning. Teachers complain that they are not able to ‘finish the syllabus’ within the school timings and they cannot earmark any of the time for life skills, career and communication skills, hence educator have been working to break this lecture Centre instructional model by shifting the focus from the curriculum pacing guide to student learning needs as well as the driver of instruction. They are, increasingly turning to alternative models of instruction called Flipped learning in which digital technologies are used to shift direct instruction outside of the group learning space to the individual learning space, usually via videos. Offloading direct instruction in this way allows teachers to reconsider how to maximize individual face to face time with students. Time becomes available for students to collaborate with peers on projects, engage more deeply with content, practice skills and receive feedback on their progress. Teachers can devote more time to teach their students helping them develop a procedural fluency in needed, and inspiring and assisting them with challenging projects that give them greater control over their own learning.

Importance Of Flipped Classroom

1. Flipped lecture room lets in college students to research on their personal time and at their personal pace. This lets in you to provide them greater one-on-one coaching in addition to deliver your college students the possibility to invite questions on the concern remember that they locate complicated or hard.
2. A flipped lecture room lets in college students to have greater time for participating with different college



students which may be an excellent studying level for the scholars and as a manner for them to construct their teamwork abilities

3. When a scholar is looking at a video lecture, for instance, the lecture is free of interruptions to distract the scholars and may be replayed as frequently because the scholar could like. This extends to while a scholar is making ready for an examination as they are able to cross again and evaluation preceding lectures.
4. After college students have interaction with a virtual lesson or watch a video at home, they are able to brainstorm inquiries to ask you which could open the ground for a dialogue approximately whatever which could be doubtful or complicated. Coming to elegance organized with thoughts and questions is an excellent manner to jumpstart the elegance and proportion thoughts among college students.
5. Sick days will now no longer interrupt a scholar's capacity to research. With a flipped lecture room, college students have interaction with a lesson on their personal time and a scarcity will now no longer detract from them studying the cloth. On the equal note, while you are absent from faculty, your college students will now no longer be afflicted by an alternative's incapability to train your lesson. The alternative most effective wishes to supervise college students operating on their assignments within the lecture room and be capable of solution questions rather than introducing new content material.
6. Often times, a couple of instructors are coaching the equal course. If you've got got all created a flipped lecture room, you could deliver college students get entry to to exclusive instructors' virtual content material and movies so that it will boom their comprehension of the concern. By permitting college students to have get entry to to a couple of sorts of coaching, this could boom their comprehension of the concern.
7. In a flipped lecture room, it's miles viable for college students to have improved enter and manipulate over their personal studying. By imparting quick lectures at home, college students are given the liberty to research at their personal pace. Students can also additionally pause or rewind the lectures, write down questions they'll have, and speak them with their instructors and friends in elegance. This additionally lets in college students who want greater time to recognize sure principles to take their time reviewing the cloth with out getting left behind, and gets instant help from instructors and classmates. As a result, this will now no longer most effective improves scholar achievement, however improves scholar conduct in elegance as nicely.
8. Flipped lecture rooms lets in elegance time be used to grasp abilities thru collaborative tasks and discussions. This encourages college students to train and research principles from every different with the steerage in their instructors via way of means of permitting college students to partake of their personal studying. They are capable of personal the understanding they gain, which in flip builds confidence. Furthermore, instructors are given the capacity to discover mistakes in questioning or idea utility, and are greater to be had for one-on-one interplay.
9. By making video lectures to be had always on-line, college students who're Forced to overlook elegance because of illness, sports, holidays or emergencies, can trap up quickly. This additionally offers instructors greater flexibility once they themselves are unwell and additionally gets rid of makeup assignments.



10. Unlike conventional lecture room fashions, flipped lecture rooms deliver mother and father 24/7 get entry to to their scholar's video lectures. This lets in mother and father to be higher organized while trying to assist their college students and offers them perception into the nice of coaching their college students are receiving.
11. Done properly, in a flipped lecture room, children will have greater time to be children, whether or not which means greater unfastened time, or greater educational exercise. In fact, a look at accomplished looking at 9th-twelfth graders discovered that scholars spent a mean of 38 hours per week doing homework. This is a awesome quantity of labor now no longer most effective college students, however on instructors as nicely, who've to be continuously assigning and grading paintings. Since flipped lecture rooms restriction the outdoor workload to looking an internet lecture this is normally much less than 10 mins long, this offers college students. and instructors greater time outdoor of sophistication to cognizance on different pursuits like friends, households, and hobbies. However, there have predictably been a few grievances to this ambitious new version of coaching and studying.

Why are instructors flipping their Class?

Flipped models allow the teacher and students to make the most use of their time and effort during class. Essentially this model gives educators more time to support their students in active learning by reallocating time spent teaching and learning. This approach saves the classroom time for discussion, clarifications and application of knowledge and puts responsibility of information processing on the students. Thus it enables the teachers to play their most important role of guiding their students to higher order thinking and higher levels of applications.

A Flipped class keeps student learning at the center of teaching.

- Students are more active participants' in learning
- Students learn more deeply
- Instructors and students get more feedback
- Interaction increases and students learn from one another

The model by Leigh Anne Lankford (2013) shows the Flipped Classroom as cyclical rather than pre-work followed by an event. The four types of activities are categorized either educator suggested or learner generated. Experimental engagement, concept exploration, meaning-making demonstration and application.

Need of flipped classroom

The 21st century skills are the severe impact of Covid-19 to the education system demand that the students to be trained in learning and thinking skills and ICT skills, innovation and creativity, communication and collaborating, among others. Unless the teachers imbibe these skills, they will not be competent to develop these skills among their students. In regard to the burden on children, the gravitational load of the school bag has been discussed widely in media, even in Parliament. After this study Yashpal Committee (2009) advised on improving the quality of the learning, while reducing the burden on school children as Learning without burden. In simple words flipped classroom is "school work at home and home work at school" Flipped the classroom refers to swapping classroom lecture time for hands on practice time. Therefore, the lecture is done form



homework in usually via video or audio file in the classroom time is spent clarifying and applying new knowledge gained. The sleeping classroom experience makes optimal use of teacher and student time provides increased access to teacher's expertise and enables better scalability of instructional resources to support enrollment demand.

The Flipped classroom experience makes optimal use of teacher and student time, provides increased access to teacher's expertise and enables better scalability of instructional resources to support enrolment demands. From the teacher's perspective the important of Flipped classroom is due to the following reasons.

- Increased classroom time to present contain discuss of complex topics and work with two is either individually or in small groups.
- Reduced time spent answering basic and respective questions due to student's ability to use review lectures.
- Ability to use recorded lectures in multiple sections year over year with easy-to-use to update content.
- Quick adoption for lecture content to respond to new learning needs.

“ We need technology in every classroom and in every students and teacher's hand ,because it is the pen and paper of our time , and it is the lens through which we experience much of our world.”

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