



USE OF INNOVATIVE METHODS IN THE EDUCATIONAL PROCESS

Yulduz Abdikarimovna Sherkulova

Samarkand State University of Veterinary Medicine, Animal Husbandry and
Biotechnology University Tashkent branch Head of the Department

Qorabayeva Shaxloxon Abduvaxobovna

Chief specialist of the control and monitoring sector with appeals from
individuals and legal entities

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Abstract: Advance pedagogy is the way to enhance teaching and learning performance. Different innovative teaching methods are now in use across the globe. Hybrid teaching includes e - learning in addition to the face to face teaching. Use of technology and multimedia is described in details. Use of smart gadgets for different tasks like teaching, designing question papers, assessment of student, feedback and research methodology is discussed. The application of innovative teaching and learning methods is critical if we are to motivate and engender a spirit of learning as well as enthusiasm on the part of students, The role of education is to ensure that while academic staffs do teach, what is taught should also be intelligible to students emanating from culturally and linguistically diverse backgrounds and that they rapidly become familiar with the expected standards.

Keywords: Innovative teaching and learning, short-lectures, role-play, simulation, problem-based learning.

Innovative teaching strategies don't always mean introducing the latest and greatest technology into the classroom. Instead, innovative teaching is the process of proactively introducing new teaching strategies and methods into the classroom. The purpose of introducing these new teaching strategies and methods is to improve academic outcomes and address real problems to promote equitable learning. In many ways, applying innovative teaching strategies to the classroom is a tacit understanding that our teaching methods can be improved. It accepts the need to grow and develop, which is exactly what we ask of our students. What better way to lead than by example?

So, innovative teaching strategies start with a growth mindset. We identify room for improvement. We invest our time in researching and thinking of better strategies to teach our students. We create something new or adapt existing methods. We take risks. We may fail. We try again. We iterate and by doing so establish a culture of innovation and creativity in the classroom that inspires our students to do the same.





In this post, we talk about popular innovative teaching strategies that help drive better student outcomes. These strategies often focus on student engagement. After all, students that are actively engaged in their learning are less likely to be absent from the class and more likely to succeed academically.

It is important to take a student-centric approach to our methods. As a student, do we gain more from class by sitting passively in our seats for a 45-minute lecture? Or, are we more likely to learn by actively participating in the class by asking questions, collaborating on projects, and problem-solving? Let's look at ten innovative teaching strategies that teachers use in their classrooms to improve student engagement and academic outcomes.

While this form of teaching does not include technology, it is an enriching experience for the student as well as the faculty. Here, the learning happens in an informal setting such as after-school learning clubs, or trips to museums and exhibition. The teacher can link the educational content with the experiences that the students are having. This teaching is further enhanced and deepened by adding questions related to the subject. The students can then add to the classroom discussions through field trip notes, photographic projects and other group assignments related to the trip.

2. Teaching through Smart Boards

Smart boards are an effective way to bring the classroom to life while helping students experience a deeper level of engagement and understanding. This is done by making the course content interactive and visual. The smart boards transform the teaching experience into an interactive and collaborative experience as the teachers use dynamic multimedia content, to help convey the topic more effectively to the students and making it a visual, engaging experience.

3. Teaching through Flipping Classrooms

Flipping the classroom is becoming an increasingly popular effective teaching method. In this technique, the students are made active participants of the learning process by passing the onus of learning on them, it requires the teachers to relegate to the role of resource providers and the students take the responsibility of gathering concepts information. Using various tools of technology the students are encouraged to constructing knowledge, fill in the information gaps and make inferences on their own as and when needed.

While many may question if giving students the responsibility of learning may world, it has been seen by teachers across the world that when put in charge of





their own learning they immerse themselves more in the subject, taking more interest and learning better.

This method of teaching is one of the best ways to lay the foundation in independent learning.

4. Teaching through collaboration

Another innovative method of teaching involves encouraging student collaboration for various projects. Today, we live in a globalized world and collaboration is an essential life skill that is important for all careers and enterprises. Teachers can help foster this skill in the classroom by allowing students to learn, study and work in groups.

For instance, by assigning group homework or encouraging students to work together on plays, presentations and other reports. Today, collaboration as a form of teaching is gaining acceptance as a powerful teaching tool where once again the responsibility is on the group of students and the educators play to the role of guides, mentors, supervisors for the students. It also teaches students empathy, negotiation skills, teamwork, and problem-solving.

5. Teaching through Virtual Reality

Virtual Reality technology involves helping students learn through interactions with a 3D world. For instance, instead of taking the students through a boring history class, the teachers can use 3D technology to explore ancient civilizations, travel to distant countries for a class in geography or even take a trip to outer space during a class on science.

Virtual Reality technology offers students a valuable opportunity to learn in an immersive manner that creates a lasting impression on their minds. It makes learning fun and helps the students retain the material for a longer time – all the essential points when considering effective teaching methods in a classroom

6. Teaching through 3D printing technology

Teachers looking for innovative methods of teaching can also look at 3D printing as a means of teaching. This method is fast gaining global acceptance, especially in higher educational institutes where 3D printers are used to create prototypes and make complex concepts easy to understand. In the lower level classrooms, teachers can use the 3D printers to teach content that was previously taught via textbooks, thus helping students gain a better understanding of the concept- especially STEM subjects.

7. Teaching through Cloud Computing

Bring technology into the classroom allows educators to experiment with innovative methods of teaching. The use of cloud computing is one such





method where teachers can save vital classroom resources such as lesson plans, notes, audio lessons, videos, and assignments details on the classroom cloud. This can then be accessed by the students from the comfort of their homes, whenever needed bringing the classroom back to the students with the click on a mouse. It also ensures that students who have missed class either for illness or any other reason stay updated at all times. It eliminates the need for lugging around heavy textbooks and allows students to learn at a time, place and pace that they are comfortable with

8. Technology and innovative methods of teaching

The use of technology in the classroom helps to engage the students with different kinds of stimuli and creates an environment of activity-based learning. It makes the content of the classroom more interesting and makes learning fun. For teachers, technology offers an endless set of resources that they can tap into depending on the need of the students. While this blog lists a few such resources, for a teacher looking for effective teaching methods in a classroom, turning towards the latest technology will offer a vast number of updated solutions.

References:

1. Khairnar. C. M. (2015) Advance Pedagogy: Innovative Methods of Teaching and Learning. International Journal of Information and Education Technology, Vol. 5, No. 11, pp 869-872. Gunn. E. (2014) "Using clickers to collect formative feedback on teaching: a tool for faculty development," International Journal for the Scholarship of Teaching and Learning, vol. 8, no. 1, article 11.
2. Bonk.C.J. (1998) Cummings, "Recommendations for placing the student at the center of web-based learning," Educational MediaInternational, vol. 35, no. 2, pp. 82- 89.
3. King S. B. (2014) "Graduate student perceptions of the use of online course tools to support engagement," International Journal for the Scholarship of Teaching and Learning, vol. 8, no. 1, pp. 130-132.
4. <https://www.edsys.in/16-innovative-ideas-make-teaching-methods-effective/>
5. Kelliher GJ, Sachdeva AK, Fleetwood J. Preserving the best of the art of teaching. Acad Med. 1996 Mar;71(3):248-50. doi: 10.1097/00001888-199603000-00013.PMID: 8607920
6. <https://pubmed.ncbi.nlm.nih.gov/8326843/>

