# Innovative Educational Practices in Teaching, Learning and Evaluation

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**Abstract:** *This article describes innovative practices in teaching, learning and evaluation. The main objective of this paper is to discuss various practices in teaching learning which are considered innovative. Educational system should empower learners with skill and competences to cope with a constantly changing landscape. The purpose of this paper is to feature the traditional methods of teaching as well as e-teaching and to suggest other useful teaching methods that can be attempted in imparting knowledge to the students. In this paper, we build on our previous work of exploring new forms of innovative practices. The study tries to focus on each dimension related to teaching and its evaluation and different practices implemented for creating platforms for learning.*

**Keywords:** Innovative Practices, Teaching, Learning, Evaluation

## I. INTRODUCTION

Education system for the past few years has changed and led to many practices to impart knowledge to the students. But these new ways of teaching are not being much familiar or known to the teaching fraternity. Quality education is possible through novel ways and use of different methods each time. Basically teaching must include sharing of information . A teacher tries his best to impart knowledge the way he understood it. Traditional and conservative approaches in teaching can help teachers achieve the desired ends but complete development is possible through modern, innovative methods. The use of innovative methods in educational institutions has the potential not only to improve education, but also to empower people.

### 1.1 What are Educational Innovative Practices

Instead innovative teaching is the process of practively 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 read problems to promote equitable learning. Innovative practices is defined as an educational method, practices or strategy that is implemented and that results in a transformative educational experience for students.

The use of innovative teaching and learning strategies has been a hot topic for the last decade. Creative and skilled teachers are being found using different innovative teaching methods of higher education level. There is a widespread notion that the education system should empower learners. I have seen many different ways educators approach teaching - from the traditional learning model to some of the most innovative and creative classrooms. I will focus on some of the most creative and innovative areas. The focus of innovation in teaching and learning is based on the trust that every student has the capacity to learn and be successful in life. A teacher should perceive each student as possessing unique personality characteristics that can be more polished by using creative and innovative teaching methods. Classrooms nowadays are exemplified by students' diversity. The students in universities

are diverse in different aspects such as culture, religion, family background, religion and schools where they have been studying. A new challenge is to look for teaching ways that can address their needs. To respond to such diverse needs of the students at higher educational levels, different innovative teaching and learning strategies and methods are being used by the teachers.

Worldwide government and private education institutions are focusing on the needs of the students and they are more focused on learner-centered teaching. Teaching methods and strategies are more flexible now. To keep students from

suffering, teachers should have a flexible and creative mind. There seems to be a close interrelation between the diversification and flexibility patterns of higher education. I think innovation is closely related to creativity.

**According to the National Education Association in a piece written by Dawn Duprist titled,' 'Creativity in the classroom',** It involves all of your senses and creates new knowledge that didn't exist before.

Today's technology has given teachers across the world a number of tools to enhance teaching methods. Innovative teaching strategies don't always mean introducing the latest and greatest technology in the classroom or constantly catching up with the latest education trends. Instead innovative teaching is the process of proactively introducing new teaching methods and strategies which focus more on students. These innovative ones aim at encouraging students to join proactively and interact with their classmates and the teacher during lessons.

**According to Alexandra K. Trenfor,  'The best teachers are those who show you where to look, but don't tell you what to see'.**

The biggest challenge for any teacher is capturing each student's attention and conveying ideas effectively. Nowadays , many teachers are trying to keep their classes as far as possible from that boring class scenario and let their students get more involved in learning by finding different approaches to teaching them. The education field is changing at such a fast pace that you need to keep up and adapt to the more modern strategies, otherwise it is very difficult for us to fit in.

## II. INNOVATIVE EDUCATIONAL PRACTICES

### 2.1 Using Virtual Reality Technology

Enter a whole new world right inside your classroom with virtual reality technology. Like sitting in a 3D cinema or playing VR games, students can immerse themselves in different spaces and interact with real objects instead of seeing things on flat screens. Now the class can travel to another country in seconds, go to outer space to explore our milky way, or learn about the Jurassic era with dinosaurs standing just meters away.VR technology may be costly, but the way it can turn any of your lessons into a blast and wow all students definitely makes it worth the price.

### 2.2 Using AI (Artificial Intelligence) in Education

AI assists us in doing so much of our work. This method is surprisingly widespread these days. Using AI was doesn't mean it does everything and totally replaces you. It is not like in the sci-fi movies where computers and robots move around and teach our students or brainwash them. It helps lecturers to reduce their workload, personalize courses and instruct students more efficiently. Many familiar things you are probably using, such as LMS,plagiarism detection, automatic scoring and assessment, are all AI products.so far AI has proved it brings about lots of benefits for teachers.

### 2.3 Using AI in Education Example

- Course management
- Assessment
- Adaptive learning
- Parent-teacher communication
- audio/ visual aids

### 2.4 Teaching through 3D Printing Technology

Teachers looking for innovative methods of teaching can also look at 3D printing as a means of teaching. 3D printing makes your lessons more fun and gives students hands-on experience to learn new things better. 3D printing gives your students real world understanding and ignites their imagination. This method is fast gaining global acceptance especially in higher education institutes where 3D printers are used to create prototypes and make complex concepts easy to understand. In the lower level classroom teacher can use 3D printers to teach content that was previously thought via textbook.

### 2.5 Teaching through Cloud Computing

Bringing technology into the classroom allows educators to experiment with innovative methods of teaching. The term can be strange, but the method itself is familiar to most teachers. It has a lot of potential for all institutions and

educators.in this method teachers can save vital classroom resources such as lesson plan, notes, audio lessons, videos and assignment details on the classroom cloud. This method is easy to use and cost saving,secure your data,allows students to have distance learning and more. It's a little different from online learning in that it requires no interaction between lecturers and learners, which means that your students can learn anytime and anywhere they want to finish the courses.

### 2.5 jigsaw
The Jigsaw technique is a 'tried and true' cooperative learning strategy that helps students create their own learning. Students are arranged in groups and assigned a different piece of information. When using this technique students become experts on the learning as they teach their peers. Most importantly, Jigsaws Introduce the opportunity for students to teach other students. **According to Seneca, "**while we teach, we learn,". The Jigsaw puzzle is an ordinary game that we bet each of us has played at least once in our lifetime. In this technique divide the students into small groups, give each group a subtopic or subcategory of the main topic. Instruct them to explore the given ounces and develop their ideas. Each group shares their findings to form a big picture, which is all knowledge on the topic that they need to know.

### 2.6 Design Thinking Process
This one is a solution based strategy to solve problems, collaborate and spark students' creativity. There are five stages, but different from other methods because you don't have to follow a step-by-step guide or any other. It's a non-linear process, so you can customize it based on your lectures and activities.
**The five stages are:**
- **Empathic-** Develop empathy, and find out the needs for the solution
- **Define**- Define issues and the potential of addressing them.
- **Ideate-** think and generate new, creative ideas.
- **Prototypes-** Make a draft or sample of the solutions to explore the idea further.
- **Test**- Test the solution.

### III. INNOVATION IN EVALUATION SYSTEM
Traditionally, many teachers have evaluated their students' knowledge by giving examinations and papers. Both teaching and evaluation must be considered together. Everything in the world is evaluated, not only material things, but also abstract things like the satisfaction, the taste of the drink is also measured and analyzed. Teachers must be aware of how much the students have learned, so they can alter their efforts for the benefit of both the students and teachers themselve. There are few more effective techniques like self evaluation, group evaluation and the evaluation of higher authorities. Among them self evaluation and students' evaluation is considered the best method. Quality evaluation is very essential to bring the best of students which is equally applicable for even teaching fraternity as well.

 'Self evaluation directs us to prepare our next

 Performance from the past and today's experiences.'

**Some important innovation in evaluation systems**

### A. Concept Maps
Concept maps provide a visual representation of connection between concepts that students have learned. Concept maps are excellent tools that can provide instructions with a formative assessment of a student's learning.

### B. Concept Test
Concept tests are multiple choice questions designed to the understanding of a single concept. They are effective at identifying common student misconceptions surrounding traditionally difficult concepts in science and engineering and have been shown to enhance student comprehension of fundamental concepts.

## C. ePortfolio

An ePortfolio is an online space where students can store and organize artifacts that they have produced in the course, such as written assignments, images, video and so on. They then use the ePortfolio to reflect on their learning. An ePortfolio helps students to see connections within various components of a course or among their various courses.

## D. Minute Paper

Pose one to two questions in which students identify the most significant things they have learned from a given lecture, discussion or assignment. Give students one to two minutes to write a response on an index card or paper. Their answers can help you to determine if they are successfully identifying what you view as most important.

## E. Artificial Intelligence

In AI assessment, a software system infers problem-specific rules for automated scoring form examples of instructor grading of student assignments. AI assessment is also considered one of the innovations in the evaluation system.

## IV. CONCLUSION

Education constitutes the backbone of a country and it is also considered as an important instrument for bringing about social, economic, political, and technological progress. This research paper offers meaningful and practical insights to provide an effective learning environment for the new generation of students. Modern technology has entered the classroom thus modifying the nature of the interactions between teachers and students. Educational institutions require an innovative and supporting tool which helps in improving the quality of teaching and learning because learning outcomes are playing a major role in ensuring quality teaching. I feel that it is good to use innovative practices in teaching for the development of curiosity and interest of students.

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