

The need for Innovative Changes in the Teaching and Learning Process

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Abstract: *This study explores the need of developing new innovative method in order to facilitate the student learning and to secure the future of education. The good relationship between student and teacher is required for effective learning. There should be an excellent relationship between a student and teacher for the progress of students and to gain positive attitude. Because in this relationship, teacher is the role – hero that can do it by imparting the knowledge regarding; education, ethics, career planning, nation development and etc to the learners. Earlier it was believed that teaching and learning are teacher centered process, but after the change of perspectives and time requirement, it became student centered process. In these days, teaching is not static, but teaching is dynamic function, teacher's playing many roles in student development such as supporter, helper, partner, and colleague of the learner. Still, there is need to change the process of teaching and learning according to the requirements of learner. It is a unique responsibility of teacher as a teacher to reform not only student in personal but also to build them nation builders. Firstly this study review an overview of teaching and learning process. Secondly, emphasizes on the innovative changes of the teaching and learning process.*

1. INTRODUCTION:

Education is the passport to the future, for tomorrow belongs to those who prepare for it today.

- Malcolm x

Education is the starting point of every mankind. Education is that light which shows the mankind is going to right direction. The motive behind of education is not only to impart the subject knowledge but to give rationale thinking, knowledge ability and self sufficiency. When there is a willingness to change, there is hope for the growth of education sector. Over the decades there had been rapid increase in the higher education system. Our education system is geared towards teaching and testing knowledge at every level as opposed to teaching skills. Teaching and learning are dynamic complements of knowledge sharing at a time of increasingly rapid technological advancements. For effective learning the continues creativity and innovation is playing important role. Still there are student and teacher using the traditional methods in teaching process; need to take step for implementing the methods of innovation and creativity in practically based. Blackboards and note books are not only the methods for understanding and clarity about the concept, but emphasizes on use of demonstrating, computerized methods follow for classroom study. It is high time both for the students as well as teachers for a change, which can be met if they accept the challenge. Faculty members are constantly looking for new and effective ways to engage their students in the learning process .More than ever before, students in higher education will apply what they learn in university to professional careers that don't yet exist. To become global leaders and valuable citizens of today and tomorrow, our students must learn to be independent critical thinkers, to be socially and ethically responsible, and to have a broad understanding of the world. Now, across all over the globe many different innovative teaching methods are available.

2. RESEARCH OBJECTIVES:

1. To study the innovative methods in teaching process.
2. To study the innovative methods in learning process.

3. RESEARCH METHODOLOGY:

The information in this paper is acquired through many textbooks, articles and websites by using qualitative research method and secondary data only.

4. BASICS OF TEACHING AND LEARNING PROCESS:

- **Teaching;** Teaching is the process of respond to people's needs, experiences and feelings, and intervening so that they learn particular things, and go beyond the given.

- **Learning:** the ability to learn and process of acquiring modifying existing, knowledge, behaviors, skills, values, or preferences. To learn effectively is potent to tailor your study habits to your own needs and approach, this often means choosing techniques that work for you and evaluating them from time to time to determine if you need to try something new.
- **Teaching and learning process;** Teaching learning process has been edifices to ensure that students learn by constructing knowledge rather than by receiving knowledge from others. This constructivist approach requires new techniques for assessing students' learning that includes assessment as an integral part of teaching in order to better understand what students have learnt during the process and enables the students to develop multi-disciplinary approach.

5. INNOVATION IN TEACHING AND LEARNING PROCESS:

Education is a very powerful instrument for social change and transformation and innovative teaching practice is the only way to enhance the quality of our education. The use of innovative methods in educational institutions are not only important to improve education, but also to develop creativity, empower people, strengthen governance and improve the effort to achieve the human growth goal for the country. An innovator will constantly think of better ways of doing things; an innovative educator will constantly formulate new ways and approaches to teaching and learning to maximize the output i.e. learning.

6. INNOVATION PROCESS IN LEARNING:

As per the time requirement, today’s essential ingredient i.e. innovation. The innovation refers to modify the existing for the betterment today as well as future. No one can grow without adapting the environment , as in the business sector almost every field starts works with computer technology for today’s survival , in education there is also need to adapt the new ways for advancement i.e. moving from fixed to growth to innovator’s mindset. The image below is to differentiate between the different mindsets and shows why moving from fixed mindsets to growth mindset is required for effective learning.

Situation	Fixed Mindset	Growth Mindset	Innovator's Mindset
Challenges	Challenges are avoided to maintain the appearance of intelligence.	Challenges are embraced stemming from a desire to learn.	Challenges are sought out, and seen as an opportunity for growth and development.
Obstacles	Giving up in the face of obstacles and setbacks is a common response.	Showing perseverance in the face of obstacles and setbacks is a common response.	When obstacles arise, the thinking is shifted to look for opportunities and possibilities.
Effort	Having to try or put in effort is viewed as a negative, if you have to try, you're not very smart or talented.	Doing hard work and putting in effort paves the path to achievement and success.	Hard work and effort are continuous, and we look to make time to create new solutions and ideas for growth.
Criticism	Negative feedback regardless of how constructive is ignored.	Criticism provides important feedback that can aid in learning.	Criticism provides important feedback which creates the opportunity to implement new and better ideas for learning from others.
Success of Others	Other people's success is viewed as a threat and evokes feels of insecurity or vulnerability.	Other people's success can be a source of inspiration and education.	Other people's success is learned from, and something we modify and apply in our own context to create our own success.

Table no.1 showing learning process

7. INNOVATIVE TEACHING METHODS:

Any method of teaching without destroying the objective could be considered as innovative methods of teaching. The believe is that the core objective of teaching an innovative practice could be a pathway created to further the interest of the student and the institution. Following are the teaching methods;

* **Query-Based Learning;** Query-based learning is the most powerful teaching method in the classroom, because students learn best when they construct their own meaning. Inquiry-based learning builds curiosity among students. Teacher is act as facilitators during the inquiry-based learning process.

* **QR Codes;** QR (Quick Response) codes are easy to create and have multiple uses in classrooms at all grade levels. QR codes can lead students to information just by scanning the code on a student's digital device.

* **Project-Based Learning;** Project-based learning is an effective and enjoyable method to learn. It develops deeper learning competencies required for success. It uses real-world scenarios, challenges, and problems to engage students in critical thinking, problem solving, teamwork, and self-management.

*The Use of mnemonic words is also an innovative teaching method. The teacher is no more required to talk on a particular concept for a quite long time. But to make it clear to the students he/she can just go on saying mnemonics or its associated meaning in words.

* Creative Teaching is like a tool which stimulates creativity, build interest and excitement among students while playing games or forms of visual exercises.

* **Teaching with sense of humor;** is considered as an innovative method which makes students listen actively and helpful in making greatest personality. This skill is helpful you to interact easily with others, improve health and also to diffuse the problem if any.

* **Technology-based teaching;** It engages students with different kinds of stimuli- involve in activity based learning. Technology helps to make material more interesting. It makes students and teachers more media literate and mostly suggested one is Multimedia

* **Collaborative-based teaching;** It is sometimes called as cooperative teaching or team teaching, innovative teaching, it involves educators working in tandem to lead, instruct and mentor groups of students.

8. INNOVATIVE LEARNING METHODS:

* **Context-Based Learning;** It enables students to learn from experience. While analyzing new information in the context of where and when it occurs and relating it to what student already knows, students come to understand its relevance and meaning. Under a classroom or lecture theater, the context is typically confined to a fixed space and limited time. Beyond the classroom, learning can come from an enriched context such as visiting a heritage site or museum, or being immersed in a good book

* **Calculus Thinking;** Calculus thinking is a powerful approach to thinking, analyzing and problem solving. It helps in breaking large problems down into smaller ones, recognizing how these relate to problems that have been solved in the past, setting aside unimportant details, identifying and generating the steps that will be necessary to reach a solution and refining these steps.

* **Embodied Learning;** It involves self-awareness of the body interacting with a real or simulated world to support the learning process. For learning a new sport, physical movement it is an obvious part of the learning process. In embodied learning, the motive is that mind and body work together so that physical feedback and actions reinforce the learning process.

***Adaptive Teaching;** Adaptive teaching offers a solution to this problem. It often uses data about a learner's previous and current learning to create a personalized path through educational content. Adaptive teaching systems suggest the best places to start new content and when to review old content. They also develop various tools for monitoring one's progress. Adaptive teaching can be applied to classroom activities or in online environments where learners control their own pace of study.

* **Crossing over Learning;** Learning in this is an informal settings, such as museums and after-school clubs, can link educational content with problem that matter to learners in their lives. These connections work in both directions. Learning under schools and colleges can be enriched by experiences from daily life and informal learning can also boost knowledge by adding questions. These connected experiences spark further interest and motivate student to learn. An effective method is for a teacher to recommend and discuss a question in the classroom and then for learners to explore that question on a museum visit or field trip, collecting photos or notes as evidence after that share their findings back in the class to produce individual or group answers. These crossover learning experiences build the strengths of both environments and provide learners with authentic and engaging opportunities for learning and advancing. Whereas,

learning occurs over a lifetime, drawing on experiences across multiple settings, the wider opportunity is to support learners in recording, linking, recalling and sharing their diverse learning events.

* **Argumentation-based learning**; Students can boost their understanding of science and mathematics by arguing in ways similar to professional scientists and mathematicians. Argumentation helps the students to contrasting different ideas, which can deepen their learning. It makes the student to do technical reasoning. It also allows students to polish ideas with others, so they learn how scientists work together to establish or refute claims.

* **Incidental-based learning**; Unplanned or unintentional learning is incidental learning. Incidental learning occurs while carrying out an activity that is seemingly unrelated to what is learned. This shows how people learn in their daily routines at their workplaces.

9. CONCLUSION:

Thus, study can be concluded that any teaching method without destroying the objective could be considered as innovative methods of teaching. It is also recommend that the teaching and learning would be highly effective and innovative if the teacher starts to use the recent multimedia technologies like usage of computers, screen cast etc and by following student centered method of teaching –learning like mind maps, case study, problem based learning and collaborative teaching. The economy will only grow when its student and all mankind become innovators in various different fields, because the responsibility of nation is on shoulder of its people, for developing nation as a whole; the very first step should be adopting various the innovative tools in day to day life. At the last we have to moving ahead with new opportunities for enriching our fruitful future whether it is an educational area, sport, defense, health, finance or any other field of our life and our nation.

“When we are children we seldom think of the future. This innocence leaves us free to enjoy ourselves as few adults can. The day we fret about future is the day we leave our childhood behind”

-Patrick Rothfuss

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