

# Impact of Innovative Process in Teaching - Learning

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**Abstract:** This is an era where everyone running on growth treadmill for their survival with better information and knowledge. And the education is only tool which provide the right and bright direction for path of success and development. Education is not only course- centric it is the process to improve wisdom level of an individual for the development of society and nation. In the developing countries the good education system and qualitative teaching-learning concept treated like pillars of growth. According to Phil Collins Teaching and learning are twins of Education because 'In learning we will teach, and in teaching we will learn'. Due to globalisation the technology and inventions development rate is increase day-by-day and through real case based learning we match this rate. Learning should be innovative so that the learner can learn it forever and through modern teaching practices make it true because they are not only problem solving but case based practices. This paper is highlighted that how teaching methods improve the learning skills through creative and qualitative curriculums according to student psychology.

**Keywords:** teaching and learning; curriculums development; student psychology; impact.

## I. INTRODUCTION

"Vidyadadativinyam,  
vinayadayatipatramPatratvaddhanamapnoti,  
dhanaddharmamtatahsukham" According to this Shalok the complete & true knowledge gives discipline, from discipline comes worthiness and from worthiness one gets wealth, wealth provides the strong base for good deeds and from that joys & happiness in come.

In these words, the above quotation reflected that the Education gives humility; humility gives character from a good & pure character one gets wealth, from wealth gets righteous life which provides happiness in end. Basically, the all steps are achieved after taking the step of education because, "Plants are shaped by cultivation and humans are shaped by education." Education is very important part of life. Education is that powerful engine which helps to develop the society, nation and an individual in right direction with bright future(1). Education is not only limited to taking degree but it has very wide scope because it is learning ability and knowledge which boost

the wisdom ability of a person. Because Education is a social instruments so it is must to provide the better quality through innovative practice of teaching skills and creative learning models so that students literate with better knowledge.(2)

According to market demand and time the pattern of teaching is changed the guru-diksha converted into the classroom and now class room changed in smart rooms and this is pittance of Innovation and Technology. Use of upgraded technology in education improves the methods and strategies of teaching and this change helpful to enhance performance of students. The curriculum plays vital role in student-teacher life because this is that subject content and matter through which a student can learn the basic and innovative curriculum make the interest in mind of student. The developing countries highly follow the innovative curriculum because education is base to make a personality good or bad. India is also tries to make education system more powerful and qualitative so that the nation can develop with development of youth/ student in right and bright direction for example: the Lab-On-A-Bike (LOB) concept in India.

## II. TEACHING AND LEARNING

### A. Concept

- Teaching

According to Mark Van Doren, '*The art of teaching is art of assisting discovery*'. Teaching is an outside motivational force for learner to follow the instructions which is set of events, rules, guidelines, etc. for overall development.(3)

- Learning

Change is another name of learning. It is a permanent process in which a person intentionally brought a change for developing their skills, knowledge, values, etc. the learning level increase through the experience also.(3)

### B. Process of Teaching-Learning

The process for Innovation in teaching-learning:(4)

Identification of need of innovation → Learn from others  
→ Planning → Trail-Testing → Share innovative ideas.

C. Teaching Method

Traditional methods of teaching are differ to modern techniques and tools because upgradation is must. Few points lighten the methods of without innovation and with innovation:

Traditional Teaching Method

- Teacher centric method.
- Based on superficial indicators.
- One way flow of information.
- Focus on result and examination not the concept understanding.(5)
- Lack of interaction and collaborative group learning.(5)

Innovative Teaching Method

- Student centric methods.
- Interactive white and smart boards improve the engagement level of students.
- Focus on fundamental principles.
- Active learning with active interaction with students.
- Emphasis on concept knowledge.
- Interdisciplinary, problem based, collaborative learning.(5)
- Transparency in the assessment and feedback due to digitalization.(5)

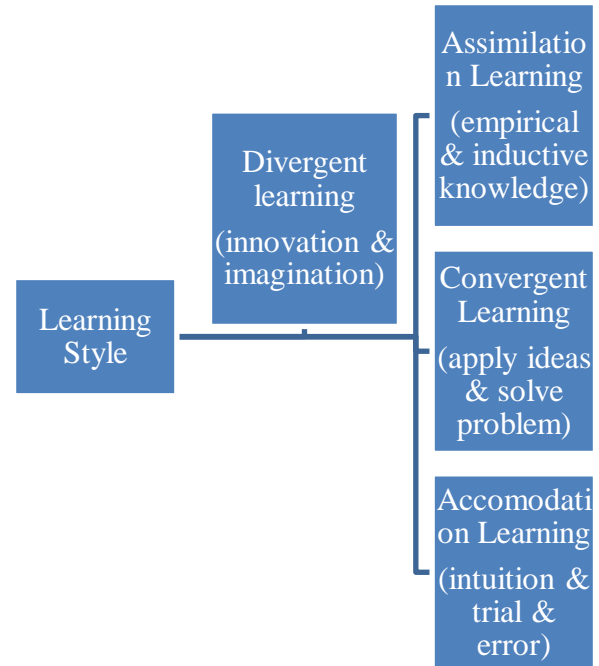
Examples of teaching through technology

- Smart classes like Youtube
- Moodle
- Blog Writing like twitter blogging
- Online courses such as Coursera

D. Learning Style and Model

Kolb described the learning styles in 1999 which highlighted that experiences are more powerful than personality traits. According to him, actual knowledge and mental conceptualisation provide direction to both sides of mind for thinking individually. Kolb focus on mainly four types of learning style which is show in given figure: (6)

Figure: 1 Learning Style

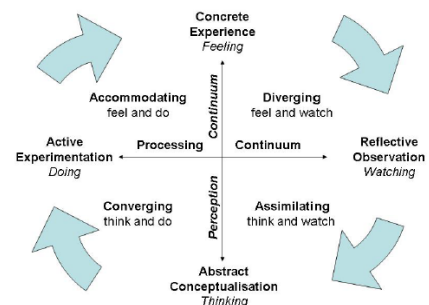


Learning Style

(Source:<http://www.nwlink.com/~donclark/hrd/styles/kolb.html>)

This learning process model is given by Kolb: (7)

Figure: 2 Learning Process



Learning Process

(Source:[http://www.nwlink.com/~donclark/hrd/styles/learning\\_cycle](http://www.nwlink.com/~donclark/hrd/styles/learning_cycle))

E. Difference between Teaching and Learning

According to Philosopher Galileo, ‘You cannot teach a man anything, you can only help him find it within himself.’

TABLE: 1 Difference between Teaching and Learning (8)

Base for differences	Teaching	Learning
• Meaning	Process of imparting knowledge & instructions.	Continuous acquisition process of skill, knowledge, values, etc.
• Consciousness	Teach something to others unconsciously.	Learn through consciously or unconsciously.
• Link	Always linked with learning and learners.	No need to teach to learn something.
• Example	Lecture-cum-demonstration method, Project method, etc.	Learning-by-doing method, Learning-by-playing method, etc.

III. CURRICULUMS DEVELOPMENT

Curriculum is the basic step of education at all level. It is the tool of futuristic planning of teaching–learning process provides the skill oriented practices and empirical knowledge.<sup>(6)</sup> Various authority bodies make some instruction and guidelines for qualitative curriculum at different section of education from primary to higher education; technical to professional education. It plays vital role in the teaching-learning process because it is that matter which a teacher delivered to students for improve their level of knowledge and skills.

A. Meaning

Curriculum basically defined as ‘the content of a particular course of study.’ This word is derived from Latin English word curricula i.e. ‘curriculum’ which means a race or the course of a race.<sup>(9)</sup>

B. Features of a good Curriculum

- It should be creative.
- It should be flexible.
- It should be related to real life learning.
- It should be psychologically sound.
- It must be provide the better scope to cultivate the skills and attitude for development.
- It should be innovative and practical so that the student automatically generate their interest to learn the new concept.
- It should be professional and updated according to requirement of market (present and future).
- Increase awareness in students.

C. Types of Curriculum

Curriculum is developed within the boundaries which are based on different factors and situations. Some main curriculum is explained under the below:

TABLE: 2 Main Kinds of Curriculum<sup>(9)</sup>

Curriculum	Explanation
Explicit Curriculum	Subject that will be taught and mission of knowledge and skills.
Impact Curriculum	Lesson arises from school culture.
Hidden Curriculum	Those things which are student learn.
Excluded Curriculum	Those contents and topics which are specifically excluded from it.

IV. STUDENTS PSYCHOLOGY

Student psychology basically depends upon heredity and surrounding environment. Every child has different way to see a same thing due to different pattern of mind set, rationality, thinking pattern, intelligence level, personality, etc. It is hardly difficult to measure the individual differences and their psychological behaviour because at

every stage the maturity level increases according to learning and experiences. So psychology parameters can help to assess the student mentality. According to time and industrial revolution the demand of market changed and new techniques and tools change the thinking ability of students. The difference between the traditional and modern psychology of students framed under the table:

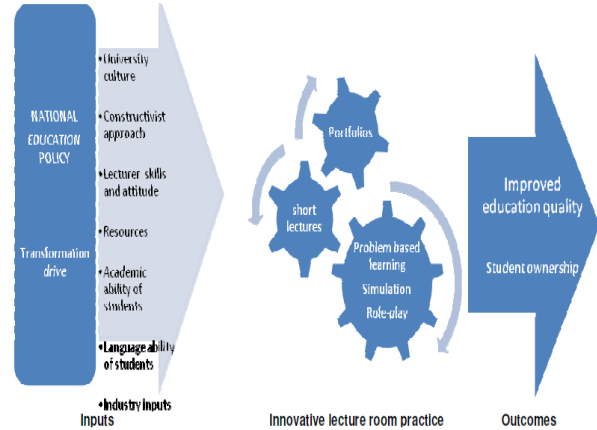
TABLE: 3 Differences between Traditional and Modern Student Psychology

Traditional Students Psychology	Modern Student Psychology
<ul style="list-style-type: none"> <li>• They were obedient.</li> </ul>	<ul style="list-style-type: none"> <li>• These are followers.</li> </ul>
<ul style="list-style-type: none"> <li>• Focus on teacher's wording and wisdom.</li> </ul>	<ul style="list-style-type: none"> <li>• Focus on technology.</li> </ul>
<ul style="list-style-type: none"> <li>• Theoretical aspect to gain knowledge.</li> </ul>	<ul style="list-style-type: none"> <li>• Believe in practical.</li> </ul>
<ul style="list-style-type: none"> <li>• Interaction with people improves the knowledge with quality.</li> </ul>	<ul style="list-style-type: none"> <li>• Smart classes are very powerful than physical interaction.</li> </ul>
<ul style="list-style-type: none"> <li>• Based on one-way flow of information.</li> </ul>	<ul style="list-style-type: none"> <li>• Healthy interaction with teacher/technology and students.</li> </ul>
<ul style="list-style-type: none"> <li>• It is teacher based psychology. For example, guru diksha.</li> </ul>	<ul style="list-style-type: none"> <li>• It is child based psychology; for example, curriculum set according to student learning level.</li> </ul>

V. IMPACT OF INNOVATION

Innovative practices effects the present scenario. The given innovative practices model shows the impact of innovation in the process and concept of teaching and learning.

Figure: 3Innovation Practice Model(1)



Impact of innovation highlighted in the following points:

- Innovation improves the learning speed of students.
- Increase interest in subject related content.
- Improve quality of education and performance of teacher and students.
- Provide practical and real case knowledge to students.
- Improve the mental flexibility.(10)
- Offers various choices for single problem.(10)
- Student has opportunity to explore the environment in order to stimulate their cognitive development.(10)
- Helpful to manage the diversity in better and efficient manner.
- Students follow active learning which means they have deep knowledge of subject matter.<sup>(11)</sup>

CONCLUSION

This paper concluded that ‘Education is the most powerful weapon which you can use to change the world’ because it is not only related to teaching method and student grades it is the base to make a perfect personality at front of society and nation. So it is necessary to improve the level of teaching methods so that the student’s performance and learning attitude increased according to time. For the better quality in education and achieving high grade performance the curriculum should be creative and healthy because curriculum is just like a seed which growing in mind of students according to their psychology level so that the outcome would be very fruitful in

future. Education is the most powerful instrument for society and nation development in the global village. So it is must to feed student through learning rote based learning rest of one way flow.

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