

# “REVIEW STUDY OF INNOVATION AND CREATIVITY TOWARDS EFFECTIVE TEACHING LEARNING PROCESS”

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## Abstract:

Innovation means new idea, new thing or object *etc.* Here, teaching learning innovation means the process of coming up with new ideas, theories, principles, collaboration and solution that can be shared in the classroom among students. Innovation and Creativity is the best way and techniques used in effective teaching learning process.

We know that innovation and creativity are two different words but both are interrelated and connected to each other, because creativity is an essential part of innovation. Teaching creativity means creativity efforts done by the teacher to bring out the innovation in classroom. It is necessary for good and experienced universities or colleges' institutional faculties should come out from the traditional way of teaching and learning. Further, teacher should be innovative in findings ways to enhance the knowledge and skill of the student community, because it is the responsibilities of an ideal teacher. Teachers are central to the transformation of the education system, which mandates a shift from rote learning to more holistic and flexible teaching methodologies. The redesign focuses on adjusting to global trends by integrating 21st-century skills and technology into the classroom (New Educational Policy, 2020). In the classroom situation, teaching learning process can be more effective, innovative and creative, when teacher uses media-mix strategy (using appropriate teaching method and aids). Assignment and presentation mode should be considered by the teacher for advancement of teaching learning process. Now a day, ICTs play vital role for advancement and improvement of educational process. Modern technologies i.e. Computer Based Teaching (Web or Portal based teaching) and Power Point Presentation *etc* e-learning facilities should be create by teaching department for changing the style of teaching, advancement and improvement of their teaching institution. Time to time, organizing workshop, brainstorming, group activities, training programme and field tour can also be effective or good method for creating interest and full participation of students.

**Key Words:** Innovation, Creativity, Teaching, Learning, Teaching Learning Process.

## INTRODUCTION

*Innovation* means new idea, new thing or object *etc.* Here, teaching learning innovation means the process of coming up with new ideas, theories, principles, collaboration and solution that can be shared in the classroom among students. Hard work, Persistence and Perseverance are necessary elements of development of any innovative idea.

*Creativity* is an active process necessarily involved in innovation. It is involve in learning process that requires skill as well as specific understanding of the contexts in which creativity is being applied. The

creative process is at the heart of innovation and often the words are used interchangeably. In other scene, creativity is also the part of science. Findings highlighted that uncertainty is a necessary condition for creative learning, emphasizing that science education should encourage students to embrace doubt and explore creative possibilities rather than just memorizing facts (Beghetto, 2021). Further we can say that innovation and creativity are two different words but both are interrelated and connected to each other, because creativity is an essential part of innovation. Teaching creativity means creativity efforts done by the teacher to bring out the innovation in classroom. It is necessary for good and experienced universities or colleges' institutional faculties should come out from the traditional way of teaching and learning. Further, teacher should be innovative in findings ways to enhance the knowledge and skill of the student community, because it is the responsibilities of an ideal teacher. Teachers are adapting to new roles, incorporating ICT tools, and focusing on personalized learning to improve student engagement and learning outcomes (Kumar, A., 2021).

### REVIEWS RELATED TO LITERATURE

**Puranik, S. (2020)** conducted a study on Innovative Teaching Methods in Higher Education. Study reveals that 21st Century is the age of cataclysmic change and creativity. India needs educated man power in huge numbers. Traditional teaching learning methodology is outdated and best methods are to be identified to improve the required skills of the teachers and students. There exists a strong need to change pedagogy from fact-based traditional lecturing to interactive teaching with the aim of fostering durable and employability skills. To address this problem, innovation in teaching and learning has become essential. Adoption of various methods and strategies as mentioned in the paper will help in getting the desired outcome. The present paper describes innovative teaching methods being adopted by higher educational institutes in the country.

**Henriksen *et al.* (2021)** found that creativity is a widely discussed construct that is pivotal to educational practice and curriculum. It is often situated alongside technology as a key component of education futures. Despite the enthusiasm for integrating creativity with technologies in classrooms, there is a lack of common ground within and between disciplines and research about how creativity relates to technology in teaching and learning—especially in the uncertain space of classroom implementation. Finding provides a critical thematic review of international literature on creativity and technology in the context of educational practice. We identify four essential domains that emerge from the literature and represent these in a conceptual model, based around: (1) Learning in regard to creativity, (2) Meanings of creativity, (3) Discourses that surround creativity, and (4) the Futures or impacts on creativity and education. Each of these clusters is contextualized in regard to emerging technologies and the developing scope of twenty-first century skills in classroom implementation. We offer conclusions and implications for research and practice.

**Rukari, S. (2021)** carried out a study on “Need and Importance of Creativity for Efficient Learning”. The National Education Policy 2020 (NEP 2020), which was approved by the Union Cabinet of India on 29 July 2020. The new policy replaces the previous National Policy on Education, 1986. The policy is a comprehensive framework for elementary education to higher education as well as vocational training in both rural and urban India. The policy aims to transform India's education system by 2021. Basic focus is provided on stress free and skilled based education. Exam oriented system can be replace into continuous and comprehensive evaluation system for the all-round development of the students

Education should be stress free and burden less. Students need to love on classroom, curriculum and teachers. Healthy and stress free education will be effective for skill enhancement of students. Creativity in education need to be adopted by every subject. Teaching should not be only chalk and talk centered. Learning should be with fun, with joy, with games and with learner's participation

Study focusing on need and importance of creativity in education for efficient learning. On the basis of own experience of researcher and expert opinion researcher has developed own model of creative teaching and learning. Many techniques and methods of participatory learning and teaching is added and implemented in classroom. It creates positive impact on teaching and learning process and makes high impact on academic learning of the students. Students are remembering learning experience for longer time.

**Bindu, T V and Ranjini D. S. (2021)** found that an attempt to find out the level of pedagogic creativity, teaching performance and content competency of student teachers at secondary school level by taking a sample of 68 physical science student teachers studying in two years degree course in different teacher education institutions in Kerala. The study also attempted to find out the relationship between these variables taken in pairs. Majority of the student teachers are having high pedagogic creativity, teaching performance and content competency. There exists a significant correlation between pairs of all these variables. It may be concluded that enhancing creative thinking skills through proper interventions can enhance teaching performance of student teachers. Strategies to develop creative pedagogic skills are to be incorporated in teacher education programmes as this in turn will affect the creative thinking ability of students at the secondary school level.

### TEACHING LEARNING PROCESS

*Teaching* is a process in which certain conditions are created so that a person can learn something new from it, developing interest and will in a person's heart and encouraging him to do a particular work is known as teaching, Chauhan, J. (2016). Teaching process operates between teacher and student for specific purpose. It does provide professionalism to teachers. The main aim of teaching is achieving specific objectives.

*Learning* is a process in which a person through his own experiences and capabilities bring about desirable change in his behavior, Chauhan, J. (2016). By the process of learning any person can achieve experience and qualification. It is very difficult process but if person tries to learn then he can achieve effective learning. Effective learning can change the overall life style of person in the desirable direction. Motivation, Stimulus, Response, Reinforcement, Feedback, Participation, Practice, Knowledge and Perception etc are the main factors responsible for effective teaching learning process.

*Process* means series of activity, a set of various elements which are sequentially interrelated and connected to each other, Chauhan, J. (2016).

Therefore, *teaching learning process* in which certain specific conditions of learning are created by the teacher through which learner his own experiences and capabilities bring desirable change in his behavior.

### INNOVATION AND CREATIVITY IN TEACHING PROCESS

In the field of social science, scientific methods should used for newness of teaching activity. It is known that science is systematic body of knowledge. It does create innovation and creativity in teaching. For example well-planned, structured enquiry is fundamental to basic science as well as social science (Home Science, Psychology, Geography *etc*). Teaching of these fields reflects the scientific method: curiosity based on existing knowledge, hypothesis formulation, systematic observation, measurement and experimentation leading to new insights of innovative and creating teaching. A deep and accurate knowledge of the scientific method provides powerful knowledge to students with innovative and creative thinking.

According to the definition of ERIC Thesaurus, “teaching innovation” means the “introduction of new teaching ideas, methods, or tools,” while “creative teaching” is the “development and the use of novel, original, or inventive teaching methods.” In other words, teaching innovation relatively tends to mean applying new teaching concepts, methods, or tools developed by others or oneself, while creative teaching tends to mean applying the teaching methods or tools developed by oneself that can stimulate the interest of learning. Broadly speaking, there are many similarities in the sense of teaching innovation and creative teaching.

Teachers having creativity in the preparation before teaching, in the process of teaching and student assessment, being able to reflect on, to design and apply new, diverse teaching methods or activities, understanding individual differences of students, stimulating students learning motivation and interest, enhancing students' learning effect.”

### **INNOVATION AND TEACHING METHOD**

The meaning of innovative teaching method is an approach of new teaching strategies and methods in the classroom. Innovative teachers implement certain processes, tools and methods of learning before they start teaching. These teaching process and method will improve educational abilities and empower student’s knowledge.

### **INNOVATIVE TEACHING METHODS AND MATERIALS USED IN THE CLASSROOM**

Innovation is related to change and improvement of both learner and teacher. Students are only motivated when they get new ideas and methods of learning. In fact human has taken birth which some talent. Only innovative teaching in classroom can brought out their talents in some or other way. Therefore, it is the ability of teachers to check their talents and help them. Teachers must be trained with technology to introduce innovation to find the new ways and explore multiple opportunities. Field of higher education is undergoing revolutions. New technologies and approaches are taking place from time to time to learn.

Learning is not confined to an individual only but it relates society. In fact traditional way does not measure learner’s ability. Modern world always expect better knowledge, new ideas from the learner so the learning process should be of motivation and interest of the students to compel them stay in class room. A teacher has to adopt various teaching/learning materials in class room. These are given below:

- **Graphs, Charts, Case Studies & Mind Mapping** encourages learner’s collaborative skill. Educator need to come out additional thinking with creative skill. Mind map can be used by the teachers to explain.
- **Project Based Teaching** if a teacher really interested in innovation in the classroom, start with project based teaching, for example give the learner to do mini-project of their own interest.
- **Meeting with Student** during class, teacher must try to meet students in group to solve their problems.
- **Giving Writing Work & Assignment** for example give the learner to do mini-project of their own interest. Teacher should divide the class in to small groups and give them creative writing works.
- **Group Work & Discussions with Students** by group discussions student should know their knowledge themselves. Giving group works in the classroom with renovate topics will make the students to prepare themselves and discuss among important points to prepare a paper is another way of teaching method. Teacher must understand the students mind set and divide them into groups for class work. Teachers try to identify student’s creative abilities and encourage for creative contributions.

- **Field Trips** organizing field trips relevant to their subject outside of classroom is another way of learning. Teachers should take the students outside of classroom to refresh their mind for faster learning.
- **Role playing** use of role playing in the classroom will bring out learners interpersonal skill. The primary aim of the teacher is to create positive environments because learners cannot be expected to sit at the allotted place throughout the day.
- **Weekly & Monthly Test** these activities should be running in the class room through which teacher can assess knowledge level of students. Giving remarks and grades students can also motivate for better learning.
- **Audio and Video Resources** textbook lessons might sometimes cause boredom to learners due to the sameness or repetitiveness of lessons and activities. In such a context, audio and video resources will help sustain learner motivation. Resources like the video will help teachers to design many different activities and make teaching and learning more effective, interactive and meaningful.

Audio-visual materials can be introduced while teaching. Displaying audio-video lectures of the student's interest will bring their full attention in the listening side. Recording learner's voice and displaying it to do correction on it another method of learning.

- **Quiz Competitions Programmes** are powerful activities to encourage and motivate students to innovative and creative learning process.
- **Sense of Humour** though the way of teaching is different for person to person, sense of humor is a very good method of teaching. No student likes the teacher who is very strict and serious. Whereas, all students like the person those who teaches with humor. The teacher can have a good cordial relationship with the student by using this method of teaching.

### **INNOVATIVE AND CREATIVE TEACHING, LEARNING STRATEGY IN HOME SCIENCE EXTENSION**

Home Science Extension means extending technical knowledge of farm wives or ladies in urban and rural areas on food, child care, home decoration, kitchen gardening, money management, time management etc. It is the professional method of non-formal education aimed at inducing behavioural changes in the farmers for increasing their income through increased production by establishing farm linkages with research for solving their problems, ensuring adequate and timely support of resources. In the context of home science extension the strategy of innovative and creative teaching and learning are as follows:

- We will create innovative environment for rural students e.g. providing library facilities for learning and create more space for innovation in education.
- We will create multidisciplinary activities and for students' engagement with teachers, with each other such as quiz contest, seminar, conference and workshop *etc.*
- We will make our teaching more interactive, supportive, challenging and rewarding for our students. We will also create self empowerment concept by using appropriate teaching method in rural areas like organizing camp to teach rural students towards kitchen gardening and small scale industries are a profitable professions.
- We will foster a culture that understands and embodies the values of diversity and inclusivity, ensuring this is reflected in campus life, in the curriculum, and in the application of knowledge to real-life problems in a global context.
- We will develop online and digital enhancements to our curricula, our evidence-based pedagogy, our community building and our focus on teaching global challenges. We will use digital and online technology to enhance a sense of collaboration and community between students on campus, to better apply interactive teaching techniques, and to expand possibilities for creating an international

classroom. We will adapt the physical spaces on campus to make them well equipped for new learning and teaching, and for building an inclusive scholarly community.

- We will also develop problem oriented teaching and help the student in providing appropriate solution of their problems e.g. entrepreneurial teaching for empowerment of girl students.
- We will provide latest scientific knowledge for their farm and agricultural used, e.g. Field & Study Tour will create effective teaching and learning.
- We will organize micro teaching process with full use of audio-visual aids and teaching methods to sharpen the knowledge level of students, e.g. to make Power Point Presentation of health aspects *etc.*
- Further, we will also organize training programme to create interest about skill development and change the knowledge and attitude of the learner in desirable direction.
- Group discussion, seminar, conference, workshop and brain storming method etc will also be organized for betterment of student's teaching and learning concept.

## CONCLUSION AND DISCUSSION

We know that innovation and creativity are two different words but both are interrelated and connected to each other, because creativity is an essential part of innovation. In the classroom situation, teaching learning process can be more effective, innovative and creative, when teacher uses media-mix strategy (using appropriate teaching method and aids). Assignment and presentation mode should be considered by the teacher for advancement of teaching learning process. Now a day, ICTs play vital role for advancement and improvement of educational process. Modern technologies i.e. Computer Based Teaching (Web or Portal based teaching) and Power Point Presentation *etc* e-learning facilities should be create by teaching department for changing the style of teaching, advancement and improvement of their teaching institution. Time to time, organizing workshop, brainstorming, group activities, training programme and field tour can also be effective or good method for creating interest and full participation of students.

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