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Abstract : *The article is devoted to the urgent problem of introduction of the innovative methods in the process of higher education. At present the new forms and methods of teaching are searched intensively. It will allow to speak about turning the education from the direct model of education to the interactive one, more productive and oriented on the trained personality.*

Keywords : *Technology , methods , education , multimedia*

Technology is undoubtedly changing how we live. From voice-activated assistants in our phones to autonomous vehicles, technological innovations lead to efficient outcomes across all walks of life. It's no surprise that innovations in education are also helping to reshape how we teach, learn, and thrive. From distance learning to virtual reality and everything in between, innovation in higher education is maximizing students' and teachers' potential and possibilities. As technology advances and the job market becomes more competitive, what it means to receive "a good education" is changing rapidly. A number of colleges and universities have quickly adapted to the change and are preparing students for the jobs of tomorrow. The fields of studies offered at these innovative universities are expanding to include: artificial intelligence, new media, engineering, bioscience, and even food innovation. Multimedia, is the combination of various digital media types such as text, images, audio and video, into an integrated multi-sensory interactive application or presentation to convey information to an audience. Traditional educational approaches have resulted in a mismatch between what is taught to the students and what the industry needs. As such, many institutions are moving towards problem-based learning as a solution to producing graduates who are creative; think critically and analytically, to solve problems. In this paper, we focus on using multimedia technology as an innovative teaching and learning strategy in a problem-based learning environment by giving the students a multimedia project to train them this skill set.

The teacher uses multimedia to modify the contents of the material. It will help the teacher to represent in a more meaningful way, using different media elements. These media elements can be converted into digital form, modified and customized for the final presentation. By incorporating digital media elements into the project, the students are able to learn better since they use multiple sensory modalities, which would make them more motivated to pay more attention to the information presented and retain the information better. Multimedia, which is used by

the teacher, modifies the contents of the material. It will help the teacher to represent in a more meaningful way, using different media elements. These media elements can be converted into digital form, modified and customized for the final presentation. By incorporating digital media elements into the project, the students are able to learn better since they use multiple sensory modalities, which would make them more motivated to pay more attention to the information presented and retain the information better. Creating multimedia projects is both challenging and exciting. Fortunately, there are many multimedia technologies that are available, for developers to create these innovative and interactive multimedia applications. This is a very interesting method of teaching. Students and children generally tend to like games and want to play them more and more. Traditional methods dictated for study and games to be separate but the fact remains that the students tend to be more interested in playing games rather than sitting down to study. Any logical reasoning would dictate us to combine the two aspects to solve the problem. The games part of learning would help the students keep their interest as the desire to win is very strong. It keeps us going and when included with different aspects of learning the learning process would continue almost throughout the day without the children getting tired or bored of studying. The importance of innovative teaching goes beyond words. As mentioned, one of the major issues that teachers face is low engagement from students. Lack of attention and lack of interest brings down the efficiency of learning. Game-based learning is one of the different teaching methods that teachers use to cultivate interest among students. As the name suggests, it is a teaching method that involves games to teach a particular concept or lesson. With the advancement in technology and the numerous online teaching tools available, it is easy to gamify the classroom and lessons. You can include quizzes, buzzer games, and more to ensure that learning is effective.

There are a lot of teaching methods and depending on the kind of students, you will have to change your approach and strategy. We cannot say that one is better than the other. Choosing the right teaching methodology is important because that decides the effectiveness of learning in your classroom. As teachers, you have to ensure to choose the right innovative methods of teaching. You can choose from the different types of teaching methods based on the demographics of your students, the subject that you teach, and the intensity of the lesson. Teachers are introducing different innovative ideas to explain the content to learners. Also, it is the responsibility of teachers to teach students with suitable and modern methods. It is a teacher who plays a vital part in students' success. So, it becomes the duty of a teacher to take a step towards accepting modern methods of teaching. To provide a sound education, there should be an amalgamation of a skilled teacher and innovative ways of teaching. So that students will be ready with not only theoretical knowledge but also with practical experience of subjects to face the world and compete against their competitors.

In short, the inclusion of modern teaching methods in this time is necessary as it opposes the idea of traditional forms of repetition and memorization of the syllabus to educate students. To develop decision-making skills, problem-solving skills, and critical thinking ability, modern teaching techniques are best suited. The new ways of teaching make students more productive and encourage them to collaborate. Both methods are effective but which will be done during this time is the question, and clearly, the importance of modern teaching techniques can be felt clearly. The use of computers may be very well practiced in the environment where the use of such technology is highly possible, but there must be some sort of innovation . We believe that the main objective of teaching is passing on the information or knowledge to the minds of the students. Any method using computer modifying the existing conventional chalk-talk method are innovative if the ultimately serve the attainment of core objective of teaching.

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