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Impact of Digital Applications Used for Online Teaching in Fashion Technology

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ABSTRACT: New technologies of education and design studies improve the quality of education through the interaction, dynamics, and fundamentals of design. This study evaluates the innovation in the technologies of educational learning in fashion technology being adopted by the fashion industries and educational institutions like universities, colleges, and other design institutions. According to the researcher, the impact of digital applications applied to online learning by fashion technology departments are proved beneficial and provides more accessible and easier learning material to the learners in a very short period instead of offline teaching. Learners can learn better creative stuff with proper visualization methods. It also improves the quality of teaching and learning techniques.

I. INTRODUCTION

Nowadays in this modern world e-learning is being enhanced by the public day by day which is implemented through blended learning. Online teaching can be provided by the effective or suitable combinations of the various delivery modes, teaching models, and different stylizations adopted to create an interactive meaningful environment of learning. According to the views of Garrison blended learning courses mingle up the activities of the classroom and online tutorials to empower the learning ability of the learner [1]. On the other hand, Graham states that blended learning can be considered an organic integration of face-to-face and online techniques and approaches [2]. The education system

is growing very fast in this technical world. Several reforms are being adopted by the Indian government to improve the quantity and quality of the education system. Various technological innovations are brought about by the industrial revolution eg 4.0. this technology was invented according to the needs and circumstances of human beings. Globally the academic level of the world has to be improved which is a necessary action. So the latest techniques used by the fashion industries to implement the learning online mode have been improved a lot because of the representation of creative artwork in the form of a visualization. Education and modern technology can never be separated as these should be aligned in an alignment [3] Learning activities of education should be preferred as e-learning because in it students and the tutors interact with each other. According to the views of Sipayung instructors should apply ICT learning which motivates a student to learn more and more [4]. Indrakasih stated that on the mode of the internet not only internet users can communicate easily but also other moderating techniques are available [5].

The study related to fashion technology needs the highest level of visual design in the learning process [6]. To apply innovative educational techniques there is a need for digital applications just to offer the best quality of polished and improved higher education.

I. Innovative educational technologies used in the study of fashion design

There are many innovative and useful educational technologies used in the stream of fashion technology. Every version of this application plays an important role in itself as it is being adopted by educational institutions all around the world.

I. Interactive whiteboard (IWB)

An example of the interactive whiteboard used in the field of fashion art and engineering, mechanical engineering, electronics, and automobiles is well studied in the previous research [8]. This interactive whiteboard can save the pictures, videos, films, and files in pdf and represent them in higher quality visual forms. These kinds of interactive tools are similar to the use of mobile devices. These can be well controlled with the stylus and finger same as mobile phones. These kinds of remote-controlled applications are highly in demand in universities and colleges. Some add-ons like CPU, tablet, and camera documents can also be attached to give a large view to a large audience. Some notes can



also be edited and pictures can be rotated. The videos can be recorded so that the learners can view them in a repeated manner. This ability of recording is very helpful for the learners. Different actions of lectures like notes, drawings, or images, can be well recorded.

2. Augmented reality (AR) and virtual reality (VR)

other examples of digital applications are Augmented reality and virtual reality which are used on a wide range in the stream of education. These are used in various fields besides the field of fashion technology. the highest level of visualization is helpful to visualize the 3D object in all the directions. It can also be used in the form of blended learning.

- *Augmented reality (AR)*

It is a version of enhancing the real world physically which is achieved through the digital elements of fashion in a visual form. Some sensory stimuli and sound can be conveyed through the digital and latest technology. It is rising day by day and is in high demand by fashion brands and other companies. It is helpful to explore the fashion techniques in a digital way to convey the lessons to the learners by the instructor.

- *virtual reality (VR)*

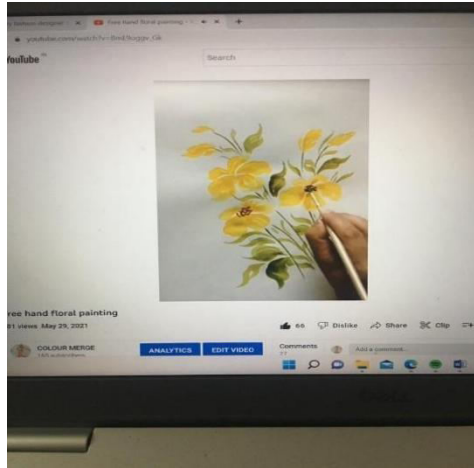
it is a simulated experience that is different from the real world. The users of VR should have a look around the real world as well as an artificial world. It is a computerized or computer-generated environment in which the objects and the scenes look very real and it gives the feel to the user or learner as if they are present there in real. A special headset or helmet is worn while using it.

These versions provoke the learners to create their interest certainly and satisfy their needs in this virtual world through the well-maintained classrooms in which they can participate to learn a lot. It is also helpful to provide better knowledge and education to the learners. Therefore, this study presents the innovative methods of online learning beneficial in the stream of fashion technology. These are being used by several fashion institutions all around the world.

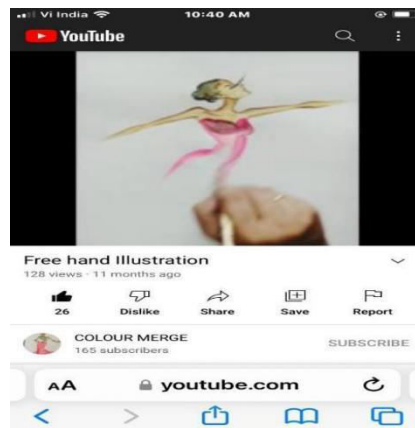
3. YouTube, as an online teaching application

As we know that e-learning is a very powerful learning tool that adds a dynamic elementary part of a study in fashion courses. It improves the knowledge and demonstrates the complex procedures even if it is successful to explain the difficult topics. Particularly these videos are entertaining as the learner

can also view them in repeated modes as much as many times he or she wishes to watch them again and again. In this pandemic session of 2020 whole world was busy creating channels to entertain the world and to earn by sitting at home. Here the researcher has also created her channel named 'color merge'. In her channel she posts her tutorial videos for the learners who are interested in her art of fashion illustration and fabric art. it was highly active during the lockdown and the researcher wanted to convey her lectures to her students as is shown in a figure (1 and 2). In these figures the researcher has explored her tutorial lesson in fabric paint in figure 1 and the fashion illustration tutorial in figure 2.



1. *Figure 1.: Screenshot of researcher's tutorial lesson on fabric painting during the lockdown (pandemic 2020)* https://youtu.be/BmE9ogv_Gk



2. *Figure 2.: Screenshot of researcher's tutorial lesson on fashion illustration during the lockdown in online classes (pandemic 2020):* <https://youtu.be/asnYNbeiwFg>

Besides the YouTube channel researcher is also running her Instagram account for textile printing and painting as the fashion ideas for the apparel designers. The name of the Instagram account is 'colormerge'. Globally several interested customers and people are connected with it and the researcher is earning sound. The screenshot of her account is shown in figure (3).

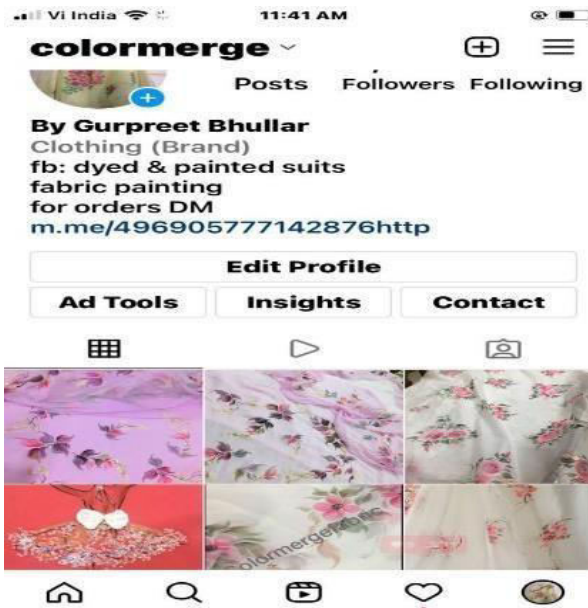


Figure 3.: Screenshot of researcher's Instagram account for the textile design ideas

<https://www.instagram.com/p/CRjoxAeqDy/?igshid=MDJmNzVkMjY=>

Side by side the Instagram researcher is also running her Facebook page named 'Dyed & painted suits'. A large audience is connected with it and a good business is running online mode. It works both as a tutorial and an online shop curriculum. a screenshot of dyed and painted suits is shown in figure (4). Here in these online modes of business and tutorials researcher has also uploaded the videos related to the lectures on fashion design which are highly under the demand of learners concerned with the design study. Fabric art like fabric paint, block printing, embroideries, tie-dye, and others are well created for inspirational designs.

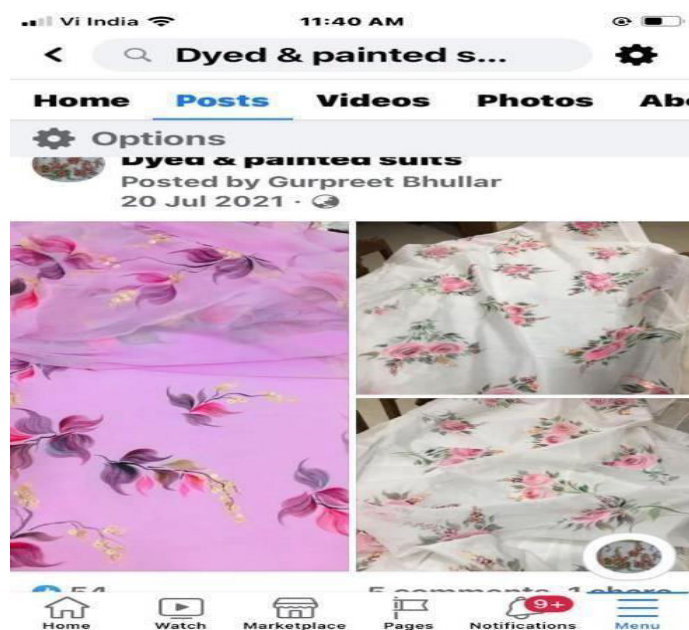


Figure 4.: Screenshot of researcher's own Facebook page

<https://www.facebook.com/496905777142876/posts/2030512823782156/?d=n>



The researcher has explored her experience of her online tutorials and marked it as the best teaching mode during the pandemic session which has been proved as the outstanding performed mode of online teaching applications. Some important factors of digital learning are as follows:

- Easy for integration
- Helpful to create an e-learning community
- Suitable for deep learning
- Helpful to generate and promote the discussion in an online mode
- Easy to run on mobiles as can be operated anywhere
- Easy to exchange and get the notes
- Enhance the skill development
- Better learning for different streams
- Helpful for online sales and purchases
- Encourage the learners to create their accounts

II. CONCLUSION

After going through the whole study, we conclude that there are several digital applications used in online teaching as some are discussed above. The researcher has shared her own experience during the lockdown in the pandemic session of 2020 when the classes were conducted online the whole world. It was an amazing experience when the researcher observed the positive response from her students and maximum of them became self-entrepreneurs.

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