Three-dimensional techniques in the design and production of clothing

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Abstract:
Fashion always reflects the distinctive era this was confirmed by some of fashion designers where fashion reflect in the next century technological use in raw materials and manufacturing methods that did not know before. The future of the fashion industry will be the production steps depending on the three-dimensional printer, Where we waits from three-dimensional printer that manufacturing materials are strong just like textile fibers, and America has already seen print three-dimensional clothes, and became popular in a short period, it is traded extensively. It accelerated the pace the development of three-dimensional printing technology since appearance for the first time in 2003, Among those recent developments appeared to use a new three-dimensional printers that will provide clothes and accessories made those technical, Where the organizers of the fashion industry is waiting for this technology to be submitted. The quality of education and academic excellence, in all cases starts from within the institution, and his key but efficient teacher qualified academically and educationally and psychologically, technology and disposable to learn, and the trainee is always on the all-new in the ever-evolving future science and attaching the renewal of its information through professional reading, and through scientific meetings and academic research, and educational and psychological. The present research cares about using three-dimensional techniques on two phases design and garment production as follows: First: the use of three-dimensional as pathetic for students creativity in the field of design Through design on mannequin decision for master's stage in Faculty of Home Economics at Qassim University, Then evaluate students skill using pre and post test. Second: the use of three-dimensional techniques in the production of clothing by handle designs which have been formed on the mannequin using with 3DMax program, to Converting designs into commands understood by a three-dimensional printer which are produced design by use of modern technology.

Results: First: use of three-dimensional techniques in clothing design. Testing was conducted on students during the preparation of designs on a mannequin in the traditional way, then later after identify the three-dimensional techniques, Through designs has been formed on a mannequin in a design on the mannequin decision, then the measure estimating the level of the students in the achievement skill test was designed and the results were as follows: 1 -There is a relationship between the use of three-dimensional and creativity of the students in the field of design techniques on mannequin In the moral level of 0.01, Leading to produce a generation of designers is characterized by creativity, excellence and processions of technology and that the validity of the first hypothesis. 2 -The existence of a statistically significant relationship between the average scores of students in grades tribal skill test and post test for post-test in moral level of 0.01, Thus achieving the health of the second hypothesis. Second : use of three-dimensional techniques in the production of clothing we were converted designs to three-dimensional designs using 3d Max program, Then a questionnaire by specialists to choose the best designs for manufactured using three-dimensional printing technology, leading to competition in the field of fashion design, and thus validate the third hypothesis.