

### **Abstract**

This study is to explore different teaching and learning strategies in teaching a subject concerning denim washing techniques which have high technical demand but the students did not have any technology background in University level. The different teaching and learning strategies to be analyzed in this study included: (i) direct instruction, (ii) advance organizer, (iii) self-regulated learning, (iv) inquiry learning and (v) social constructivism. Student performance were evaluated based on classroom observations and the recommendations were provided to the student for the improvement. Also, personal reflection on the teaching and learning strategies used had also been provided. Based on the observation, proper arrangement of teaching and learning strategies could effectively enhance students' knowledge and understand different technical idea.

**Keywords: denim, teaching and learning, washing techniques, knowledge, classroom**

### **Content:**

Denim becomes a fashion nowadays and is very popular in daily wear. Among all textile products, denim has received a wide acceptance and has been extensively used by all ages, classes and genders. Denim in the market are originally stiff and uncomfortable when first purchased because of the finishing system used for denim. Generally speaking, after weaving, the heavily sized fabric is subjected to desizing and compressive shrinkage treatments. After the treatments, the softness of the denim is seriously influenced. In the past, consumers were required to wash the newly purchased pair of jean at home by several washings in order to get the softness and colour fading effect. Due to the large market demand, different denim washing techniques have been developed and used to create a large variety of design for trendy denim. Special colour effects and vintage looks are often achieved in denim and the softness of treated denim is relatively superior. Thus, this drives the development of different washing techniques but the techniques are taught traditionally in the factory through mentoring and there is no formal and systematic training recently in academic institution. Therefore, a subject relating teaching different denim washing techniques was developed in higher education institution in order to train and equip students with different washing techniques in scientific and technological aspects. This would help the students to develop professional knowledge in different denim washing techniques.

During the teaching and learning process, it is observed that different teaching and learning strategies had been involved. Thus, in this paper, an analysis and evaluation of different teaching and learning strategies involved in one lesson (total six lessons) will be discussed. Through the discussion, it is expected that that the effectiveness of teaching and learning activities could be improved in the future planning of teaching and learning strategy of this subject.

Different teaching and learning strategies are included in the lessons which can be summarized as:

- (i) Direct Instruction
- (ii) Inquiry Learning
- (iii) Advance Organizer
- (iv) Self-regulated Learning
- (v) Social Constructivism
- (vi) Feedback

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