

ABSTRACT

APPLICATION OF FABRIC MANIPULATION TO ZERO WASTE SUBTRACTION CUTTING PATTERNS ON DRESS DESIGN

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Zero waste fashion design is a fashion design concept that integrates pattern cutting to avoid fabric waste, with the aim of producing fabric waste of less than 15% of the total fabric used in one garment. One of the techniques developed is subtraction cutting, where reducing the fabric creates empty space for the body by utilizing creativity in cutting patterns. Even though several local brands such as Tenun Gaya and Ghea are starting to implement zero waste patterns with geometric patterns, the application of zero waste fashion design is still relatively limited compared to other sustainable fashion methods. Recent research shows the potential for developing subtraction cutting, such as combining tunnel and plug-in techniques, as well as applying manipulated fabrics such as pleats and ruffles to add aesthetic value to clothing. The aim of this research is to apply subtraction cutting techniques with tunnel and plug in patterns to produce 3 dresses with tucks and ruffle details, with the aim of slowing down garment turnover and adding value to the product to be produced.

Key word: manipulation fabric, subtraction cutting, sustainable fashion, zero waste fashion design