

ABSTRACT

DEVELOPMENT OF BLOCK PRINTING TECHNIQUE WITH 3D PRINTING TECHNOLOGY USING THERMOPLASTIC POLYURETHANE FILAMENT AS A MATERIAL ALTERNATIVE PRINTING PLATE

By

ANGGI DITA HASIBUAN
NIM: 1605194115
(Textile and Fashion Craft Study Program)

Block printing is the oldest printing method that excels in creating original art through manual printing on fabric without the assistance of machines, resulting in uniqueness in each print. The most common materials for printing plates are metals or handcrafted wood, which require a considerable amount of time. This has prompted research into alternative printing plate materials that are more time-efficient. The goal of this study is to create block printing plates using 3D printing technology as an alternative material. The method employed in this research is qualitative, involving data collection through literature review, observation, and interviews regarding the development of 3D printing technology. The study also explores block printing plates through the direct coloring technique, utilizing variations in fabric and filaments to achieve optimal printing results. The outcome of this research is a block printing plate created using 3D printing technology with Thermoplastic Polyurethane filament, along with the design of a Ready to Wear Duluxe fashion product.

Keywords: *Block Printing, 3D Printing, Alternative Printing Plates, Ready to Wear Duluxe*