ABSTRACT

APPLICATION OF BLOCK PRINTING USING NATURAL SWEET POTATO (IPOMOEA BATATAS L.) DYE PASTE ON TEXTILE

by

RIEHAN OKTAVIANI PUTRI

NIM: 1605213068

(Major Craft Textile and Fashion)

Block printing is a fabric stamping technique that uses carved blocks and can incorporate either synthetic or natural dyes as its dye paste, offering versatility in textile decoration and design applications. One of the natural materials that can be utilized as a base for natural dye production is the sweet potato plant. Beyond its use as a food coloring, purple sweet potato can also serve as a natural dye for textile materials. This study aims to develop the sweet potato plant into a natural textile dye as a dye paste that can be used in block printing techniques, thereby achieving an optimal concentration for dye paste viscosity and effective application. This research employs a mixed-methods approach, collecting data from literature reviews and observations at various exhibitions and shopping centers that showcase textile and fashion products that utilize natural dyes. The study also investigates the formulation of natural dye paste from sweet potatoes by incorporating thickeners and conducting several stages of experimentation. This study produced a natural dye paste from sweet potato using a formulation of 3 g of thickener and 70 ml of liquid dye, resulting in an optimal viscosity for application using block printing techniques. Additionally, fabric sheets stamped with the sweet potato dye paste through block printing can be further developed into fashion products.

Keywords: Block Printing, Natural Dye, Sweet Potato