

## **ABSTRACT**

### **USE OF COFFEE GROUNDS AS A NATURAL DYE USING TIE DYEING AND THREAD EMBROIDERY TECHNIQUES**

*By*

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*Currently, the use of coffee has become widespread and it has become commonplace to consume it, resulting in an abundance of waste. Therefore, this research aims to optimize the potential of remaining coffee grounds as a natural dye and to find the right formula to be applied in the field of fabric and yarn fibers. The method in this research is qualitative by conducting observation, interview and exploration literature studies. The experimental process began by extracting dried Arabica, Robusta and Blend coffee grounds, then the dyeing process was carried out on cotton fabric, cotton twill, linen, tencel linen, tencel canvas, cotton thread, hemp thread and pineapple fiber. To produce varied colors, several mordants are used, namely tunjung, alum, lime, salt and quicklime. The experimental results in this research stated that dyeing with three types of coffee grounds produced optimal colors, but the color was dense and even in the Arabica type and in linen, tencel linen, cotton twill, rami thread and pineapple fiber. The colors produced are cream, brown, grayish brown, pinkish brown, ash, green to dark green. In this way, the remaining coffee grounds can be used as a natural dye in fabric materials and yarn fibers.*

*Keywords: coffee grounds, matrial fibers, natural dye, thread embroidery, tie dye*