

ABSTRACT

Coconut shells are a by-product of consuming coconuts which have several physical properties that vary depending on the age and type of coconut. Currently, the use of coconut shells as raw material for craft products is not yet accepted in higher markets because production techniques are still not well developed. However, the process of making these crafts also faces several challenges, including underdeveloped production techniques and a lack of added design value. There is a need for development in craft making techniques using laser cutting. The use of laser cutting can be an alternative in material processing because it has accuracy and efficiency in cutting coconut shells, as well as reducing material waste. In this research, the focus is on exploring the characteristics of materials so that they can be easily processed with laser cutting and identifying factors that influence the use of laser cutting technology. The research methods used include literature studies, direct observation, interviews and exploration so that we can find out the characteristics of the material. and efficiency in processing coconut shells to make a craft that has high selling power. In the results of material exploration using laser cutting technology, it can be used as an alternative for processing coconut shells in the form of decorative products that have aesthetics and high selling value.

Keywords: *Coconut Shell, Laser Cutting, Crafts,*