

## ***ABSTRACT***

### ***DEVELOPMENT OF BLOCK PRINTING TECHNIQUES BY USING 3D PRINTING POLYLACTIC ACID FILAMENT AS AN ALTERNATIVE MATERIAL FOR PRINTING PLATE***

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*The block printing technique is one of the recalculation techniques that has existed since the early 3rd century. In general, plate block printing is made with a handmade technique using wood, metal, and linoleum. The appearance of the motifs produced by conventional printing plates is indeed quite good, but it takes quite a long time in the process of making wood and metal plates. The author sees an opportunity to look for alternative materials and techniques for the process of making block printing plates. The development of the times that encourage technological and scientific progress, no progress in the design world has felt the impact of its development. From there, the innovators create various kinds of technological designs that can support the creative process of making works. One of the design technologies that have the potential to be developed as a block printing plate is 3-dimensional printing (3D printing). This study aims to develop a technique for making printing plates on block printing which has always used conventional techniques, by utilizing 3D printing technology as an alternative material to produce new visuals. The method used in this research is qualitative with several techniques whose data, literature studies using books and journals to obtain basic research theory, observation and interviews to gain knowledge about technicalities and developments in 3D printing technology, and conducting block printing experiments with 3D techniques. Printing to find optimal print results on textile materials. The printed result uses a 3D printing plate on a sheet of textile material, and then it is applied to the design of Ready to Wear Deluxe fashion products.*

*Keyword: Block Printing, 3D Printing, Printing Plate, Ready to Wear Deluxe*