

## **ABSTRACT**

### **THE EXPLORATION OF TESSELLATION DAN INTERLOCKING MODULAR TECHNIQUES FOR FASHION PRODUCTS**

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*Nowadays, the development of technology and fashion is going hand in hand. Development of fashion that grows very rapidly is caused by globalization and technology advances. A trend to incorporate the latest technology and new functionality into a traditional textile material is commonly called technotextile. This phenomenon proves that fashion is constantly related to every human life aspect particularly in technology, science, and a number of important events related to the era. Technotextile, at the present time, has two evolving techniques called tessellation and interlocking modular, common terms but rarely known in the fashion industry. These two techniques have their own uniqueness and big potentials; they also have appropriateness in technique, shape, material and functional aspect since both tessellation and interlocking modular have looping or repetition patterns. They prioritize aesthetics functionality and apply hard-based materials. Hence, fashion was selected for this Final Project. Night dress was preferred as the media to represent tessellation and interlocking modular. In this research topic, one of marine ecosystems, coral reefs, was chosen as the inspiration for the shape and color design. This research is aimed at introducing tessellation and interlocking modular techniques to the fashion industry.*

*The method employed in this research was observation that was conducted to a range of fashion labels in Jakarta. Literature studies were taken from books, papers, and internet. Furthermore, exploration method was performed to paper materials and tessa fabrics in collection design. This research is expected to increase the creativity and inspire the fashion industry community, especially for night dress fashion designers.*

*Keywords: Evening Gown, Interlocking Modular, Technotextile, Tessellation*