

**“GREAT MINDS DISCUSS IDEAS”**

# NDC 2018

**2ND NATIONAL UNDERGRADUATES  
DESIGN COLLOQUIUM**

**D E C E M B E R 2 0 1 8**

**DESIGN  
CONCEPT**



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**★ ABSTRACT** More than 30 species of mangroves have been identified in Sungai Merbok, Kedah alone and it is considered to be largest collection of mangroves species in the world. Because of the profound natural and the historical elements, Sungai Merbok is now has been identified as a second natural biosphere in the world and is recognised by the UNESCO. The researchers found that the mangroves species have potentials to be developed into design patterns. The mangroves are the main inspiration and chosen to be further developed into product designs or any other form of designs (2D or 3D) such as textile products, graphic illustrations, fine arts, souvenirs, jewellerys and other fashionable items or home products. The original images of mangroves species were collected through research websites and books then were categorised in a typology matrix which are designed specifically for this study. The basic idea development on pattern of designs mangroves were also documented in the matrix. The variation on patterns shown different types of form of mangroves physical beings (such as roots, leaves, fruits, flowers, skin texture or other parts). It is estimated that 250 basic design patterns were developed from this study. However the design patterns are not yet finalised. Further development will be done on the design developments in the near future and will be the basis for more development of other design works.

**★ OBJECTIVES OF RESEARCH**

To carry out an observation, whereby researchers will identify the mangroves species available in the area of Sungai Merbok. To produce typologies or matrixes which classify the mangroves species and recorded the design patterns development ideas.

**★ RESEARCH METHODOLOGY** There are 5 phases of research methodology for this study

Phase 1: Literature Review - Phase 2: Observation and Studies on Mangroves Species - Phase 3: Typology/ Matrix Design - Phase 4: Patterns development - Phase 5: Conclusions and Further Research

## The Development of Design Patterns Inspired by the Mangroves Species of Sungai Merbok

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