

**THE EFFECT OF ALKALI TREATMENT ON TENSILE PROPERTIES AND
WATER ABSORPTION OF COIR / POLYPROPYLENE BIOCOMPOSITE**

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BACHELOR OF CHEMICAL ENGINEERING

UNIVERSITI MALAYSIA PAHANG

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WATER ABSORPTION OF COIR / POLYPROPYLENE BIOCOMPOSITE**

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SUPERVISOR'S DECLARATION

We hereby declare that we have checked this thesis and in our opinion, this thesis is adequate in terms of scope and quality for the award of the degree of Bachelor of Chemical Engineering.

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STUDENT'S DECLARATION

I hereby declare that the work in this thesis is my own except for quotations and summaries which have been duly acknowledged. The thesis has not been accepted for any degree and is not concurrently submitted for award of other degree

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*Dedicated to my family, especially my mom and dad for their endless
supporting*

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LIST OF SYMBOLS

$^{\circ}\text{C}$	Degree Celsius
M_0	Initial weight (g)
M_1	The weight of sample after water immersion (g)
W_A	Water absorption
Wt%	Weight fraction

LIST OF ABBREVIATION

COOH	Carboxyl group
H ₂ SO ₄	Sulphuric Acid
KOH	Potassium hydroxide
NaClO ₂	Sodium Chlorite
NaOH	Sodium hydroxide
OH	Hydroxyl group
PP	Polypropylene
SEM	Scanning electron microscope
TGA	Thermogravimetric analysis