

**MECHANICAL BEHAVIOUR OF FIRE  
DAMAGED STEEL FIBRE REINFORCED  
CONCRETE (SFRC)**

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## **SUPERVISOR'S DECLARATION**

I hereby declare that I have checked this thesis and in my opinion, this thesis is adequate in terms of scope and quality for the award of the Bachelor Degree of Civil Engineering

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## **STUDENT'S DECLARATION**

I hereby declare that the work in this thesis is based on my original work except for quotations and citations which have been duly acknowledged. I also declare that it has not been previously or concurrently submitted for any other degree at Universiti Malaysia Pahang or any other institutions.

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## LIST OF SYMBOLS

R	modulus of the rupture (N/mm <sup>2</sup> or MPa)
P	maximum load carried by the specimen during testing (N)
L	span length (mm)
b	average width of specimen at the fraction (mm)
d	average depth of specimen at the fraction (mm)
$f_{ct.sp}$	splitting tensile strength (MPa)
F <sub>u</sub>	measured peak load (N)
D	diameter of specimen (mm)
L	length of specimen (mm)
°C	Celcius
°F	Fahrenheit
M	Mega
Pa	Pascal
N	Newton
N/mm <sup>2</sup>	Newton per millimetre square
kg	Kilogram
%	Percentage

## **LIST OF ABBREVIATIONS**

ASTM	American Society for Testing and Materials
BS	British Standard
MR	Modulus of Rupture
SFRC	Steel Fibre Reinforced Concrete