

THE PROBABILITY DISTRIBUTION  
OF HOURLY RAINFALL FOR  
KELANTAN RIVER BASIN

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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 Bachelor Degree in 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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FOR  
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## LIST OF SYMBOLS

|          |                                     |
|----------|-------------------------------------|
| $C_s$    | Skewness Coefficient                |
| $\sigma$ | Standard deviation, Scale parameter |
| $\mu$    | Mean, Location parameter            |
| $K_T$    | Frequency Factor                    |
| $Q_1$    | First Quartile                      |
| $Q_3$    | Third Quartile                      |
| $\Gamma$ | Gamma Function                      |

## **LIST OF ABBREVIATIONS**

|     |                                       |
|-----|---------------------------------------|
| KRB | Kelantan River Basin                  |
| DID | Department of Irrigation and Drainage |
| ARI | Annual Recurrence Interval            |
| AMS | Annual Maximum Series                 |
| IQR | Interquartile Range                   |