

UNIVERSITI TEKNOLOGI MARA

**CLIMATIC DESIGN PRINCIPLES OF TRADITIONAL MALAY
ARCHITECTURE AND ITS APPLICATION INTO MODERN
BUILT FORMS:
THE POTENTIAL AND RESTRICTION**

IDURA BINTI MOHD GHOUSE

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CANDIDATE'S DECLARATION

I declare that the work in this dissertation was carried out in accordance with the regulations of Universiti Teknologi MARA. It is original and is the result of my work, unless otherwise indicated or acknowledged as referenced work. This dissertation has not been submitted to any other academic institution or non academic institution for any other degree or qualification.

In the event that my dissertation be found to violate the conditions mentioned above, I voluntarily waive the right of conferment of my degree and agree to be subjected to the disciplinary rules and regulations of Universiti Teknologi MARA.

Name of candidate : IDURA BINTI MOHD GHOUSE
Candidate's ID. No. : 2009903963
Programme Code : MSc. In Heritage and Conservation Management
Faculty : Faculty of Architecture, Planning & Surveying

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Candidate's Signature :
Date : 23rd May 2011

ABSTRACT

In the advent of Post Modernism Architecture in Malaysia, the Traditional Malay Architecture is being forgotten and regarded as out-of-date and irrelevant. Not only the forms, but the true essence of the building functions and design principles which adapts to its climate and providing thermal comfort is no more being implemented intensively in designing buildings. Thus, the main purpose of this study was to investigate what are the potential and restriction of implementing the climatic design principles element into Modern Built Form in general. The research was also intended to find out what are the elements of Climatic Design Principles of Traditional Malay Architecture therefore to further make clear of which element is the most potential and which element is the less potential in the implementation. Through the findings, researcher was enabled to make suggestions and recommendations on addressing the restrictions and highlighting on the potentials.

Building case study and structured interview was used as the method for research. Building case study was conducted on two buildings which are different in typology but both are not from the Traditional Malay Architecture era to examine on how the Climatic Design Principles of Traditional Malay Architecture is being implemented. The structured interviews were carried out among experienced personnel in the built environment (mostly with architecture background) to find out the positive and negative responds towards the implementation of Climatic Design Principles of Traditional Malay Architecture and their reasons for not doing so. The interviewees' recommendations were also obtained from the interview which structured the solutions.

It was discovered that as hard as it may seems, that the implementation of Climatic Design Principles of Traditional Malay Architecture in Modern Built Form is not that difficult. The implementation also found out to provide more convenience for a long term and sustainable architecture since the environmental friendly and energy efficiency is an important agenda in the built environment.

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