



اَوْنِيُوْرَسِيْتِيْ تِيْكْنُوْلُوْجِيْ مَارَا
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**EFFECTIVENESS OF ADAPTATION OF TRADITIONAL MALAY
HOUSE CONCEPT INTO MODERN IN TERM OF VENTILATION
SYSTEM**

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ABSTACT

Nowadays, house is a basic needs of the life today. Have a comfortable house is part of human rights. However, the problems related to thermal heat in a modern house oftentimes arise. One of the factors that cause this issue because of emphasizes environmental factors design. Negara beriklim tropika seperti malaysia yang mengalami iklim panas dan lembab sepanjang tahun menghadapi masalah dengan kepanasan haba yang akan menyebabkan ketidakselesaan dalam rumah. A house should serve as a medium that can provide physical and psychological comfort to the occupants. Climatic aspects such as natural ventilation is one of the natural mechanisms related to arrangement and openings in the house to reach the level comfort of the house occupants. Majority the Traditional Malay House have provides a spaces arrangement that is compatible with the local climate. The number of windows, doors and other openings abound in this house allow air in and out freely and produce excessive heat. This study uses the concept of a comparison between the Traditional Malay House and Modern House that tried to use a traditional ventilation concept to find the best design requirements to allow natural ventilation occurs. The data collected using a scientific equipment in case studies and analyzed by mathematical formulas that adopted in UBBL (1984), World Health Organization (WHO), ASHRAE Standard 62 (1999) and CIBSE Guidline.

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“I hereby declare that this Academic Project is the result of my own research except for the quotation and summary which have been acknowledged”

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