

Cooperative Climatic Design

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A well responded design to climatic factors is important in ensuring a comfortable indoor environment for the users. The site is located between the proximity of Damai Beach and Santubong Forest Reserve in Santubong, Sarawak. Being deep in the natural setting, the Nature Transit Station is compelled to take advantage of the abundant stunning sceneries on the site, and at the same time, to respond well to the harsh tropical climate with its high air temperature and high relative humidity. Mohammad Firdaus has creatively designed a multi layered and protruding elevation to provide shadings to the wide fenestrations that allow the natural ventilation to take place, whilst letting users to enjoy the magnificent views. Muhammad Nor Fadhli has successfully incorporated shading devices as the



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dominant character in his design in an attempt to provide effective shading yet allowing viewing and natural ventilation. At the same time, the shading devices also generate a playful and lively environment created by continuously changing shadows of the devices. All the design strategies implemented by this group of Year 1 students have introduced building designs that truly appreciate the resources provided by the environment and simultaneously, cooperates with the climatic factors to provide a thermally comfortable indoor environment. The awareness on influences of climatic factors in the architectural design could be further enhanced and deeper exploration on well responded climatic designs is be encouraged.

