

THE DESIGN OF A STUDENT CENTRE WITHIN INTI INTERNATIONAL UNIVERSITY

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ABSTRACT

The project report intends to address the problem of a lack of suitable area within INTI International University in Nilai for students to congregate after classes for group study and provide an appropriate environment for students to carry out various activities. A user friendly three and a half storey building incorporating green technology is proposed to be built behind the engineering laboratories with some essential facilities, such as seminar rooms, lecture rooms, reading area, cafeteria, toilets and others.

This report will presents the principals and the basic steel design on the code BS5950 (Part1, Part3, Part4, and Part8) with combining with reinforced concrete design based on the code BS8110 (Part1). The design should be able to withstand the dead and imposed loads based on BS6399, and to resist the weights of the building materials based on BS648 if needed. These all structural calculation will be shown in the appendix section.

Besides that, the architectural drawing, structural drawing, elevation views, cut-sectional view drawing as well as 3D views of the student centre entirely will be designed and shown clearly in this report as well.