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**PROPOSED FOUR-STOREY REINFORCED CONCRETE BUILDING FOR  
THE COLLEGE OF NURSING AT THE CAVITE STATE  
UNIVERSITY MAIN CAMPUS**

An Undergraduate Design Project  
Submitted to the Faculty of the  
Cavite State University  
Indang, Cavite

In partial fulfillment  
of the requirements for the degree of  
Bachelor of Science in Civil Engineering



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*Proposed four-storey reinforced concrete  
building for the College of Nursing at the  
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## ABSTRACT

**CARINGAL, RONESA B., AND SARINA M. VIGAL.;** Proposed Four-Storey Reinforced Concrete Building for the College of Nursing at the Cavite State University Main Campus. Undergraduate Design Project. Bachelor of Science in Civil Engineering. April 2006. Adviser: Engr. Marcelino A. Dagasdas Jr.

The Proposed Four-Storey Reinforced Concrete Building for the College of Nursing was designed from June of 2005 to March 2006 at the Department of Civil Engineering, College of Engineering and Information Technology, Cavite State University, Indang, Cavite. The objectives of study were to enhance and apply the author's knowledge in designing, planning and estimating building; and to design a four-storey reinforced concrete building which can serve as reference for the possible expansion of the facilities at the Cavite State University.

The structural member was designed with the aid of computer software known as Structural Aided Analysis and Design (STAAD) to simplify the complex computation. The references such as National Structural Code of the Philippines (NSCP), Ultimate Strength Design (USD), Simplified Methods in Building Construction, and Simplified Construction on Estimate were used in the analysis of structural member.

The design project included the architectural plan, structural plan, lighting layout and plumbing including water supply, sewage layout, cost estimate and scaled model of the building. The estimated total cost of the project was Php 29,010, 081.25.



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