

Republic of the Philippines
CAVITE STATE UNIVERSITY
CDSU

**DESIGN OF PROPOSED UNIVERSITY LANDMARK BUILDING
FOR CAVITE STATE UNIVERSITY MAIN
CAMPUS INDANG, CAVITE**

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



00001283

*Design of proposed university landmark
building for Cavite State University main
624.177 Am7 2006
DP-212*

**CHRISTIAN A. AMPARO
FLORANTE JR P. GATDULA**
April 2006

ABSTRACT

AMPARO, CHRISTIAN A., and FLORANTE JR P. GATDULA, Design of Proposed University Landmark Building for Cavite State University Main Campus Indang, Cavite. Undergraduate Design Project. Bachelor of Science in Civil Engineering. Cavite State University Indang, Cavite. April 2006. Adviser: Engr. Allan Rowel V. Alonalon.

The study aimed to designed a proposed university landmark building for Cavite State University Main Campus – Indang, Cavite, which includes architectural and structural plans, lighting and plumbing lay – out, detailed cost estimate, and development of miniature scaled model. The study was conducted at the Department of Civil Engineering, College of Engineering and Information Technology, Cavite State University, Indang, Cavite from June 2005 to March 2006. In addition, the study can also served as reference for future implementation of the design project.

Structural engineering design software, Structural Aided Analysis and Design (STAAD Pro. 2003) was used to analyze the structural framing system of the building. Ultimate moment, shear and axial loads were used as parameters to design the section of the structural member through the help and assistance of Engr. Allan Rowel V. Alonalon. It was used to shorten the long process of computation to give ease in identifying the most safe and economical section of every structural member.

The landmark is multi – functional building, where the ground floor is intended for offices while the upper floors are intended for museums or gallery. The study was designed and dedicated to the university's foundation, development, historic contribution in several fields of study, and for its century old service as an academic institution for the Municipality of Indang, and to the people of Cavite.

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