DESIGN AND DEVELOPMENT OF A CAMPUS VIDEO BROADCASTING SYSTEM

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 Electronics
and Communications Engineering

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ABSTRACT

RODEROS, LIZZETTE D., SANTOS, MARK O., and LOUIE JASPER V. SILAN. Design and Development of a Campus Video Broadcasting System for Cavite State University Main Campus. Undergraduate Design Project. Bachelor of Science in Electronics and communication Engineering. Cavite State University, Indang, Cavite. March 2005. Adviser: Eng'r. Michael T. Costa.

The Design and Development of a Campus Video Broadcasting System for Cavite State University Main Campus was constructed at Tambo M. Kulit, Indang, Cavite. The design project was embodied by the objective of designing and developing a campus video broadcasting system.

The project was composed of a power television transmitter that radiates sufficiently strong RF signal for good reception for multiple program viewing. Its modulator circuit mixes the composite video and audio signal from the computer with an internally generated RF carrier to form a correspondingly strong RF signal. It has amplifiers that were used to amplify signal before it was fed into radiating antenna for multidirectional wireless transmission.

The project was introduced to the proponents' adviser and technical critic during the testing and preliminary evaluation conducted at the faculty room of Department of Computer and Electronics Engineering. The proponents placed the antenna at the roof of the New Engineering Building for better signal transmission.

The final evaluation of the design project took place at the faculty room of the Department of Computer and Electronics Engineering on April 27, 2004. The whole system underwent a series of testing and evaluation thru actual demonstration and questionnaire to ensure accuracy and effectiveness.

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