June 04, 2019

**Fr. Generoso Ricardo B. Rebayla, Jr., SVD**

Vice President for Administration

University of San Carlos

Dear Fr. Rebayla:

I am Ivan John A. Naparota, a second year Master of Science in Electrical Engineering (MSEE) student of University of San Carlos. My research study is entitled **“Multi-objective Optimization of Window-to-Wall Ratio Considering Energy and Day-lighting: A Case Study in an Existing School Building in Cebu, Philippines”**. Generally, it aims to find the optimum window sizes for the SAFAD building that will give the least energy consumption while considering the right amount of natural light entering the rooms, it is very common for buildings, especially buildings in the Philippines, that energy required for cooling (Air Conditioners) takes the biggest chunk of the total energy consumption of a building, minimizing the total energy consumption by altering the window size of a building will tell us that we need very small windows to prevent penetration of heat through sunlight. But, aside from aesthetics, natural light has its health and psychological benefits to the building occupants that is why it needs consideration, also, we can harvest natural light to aid artificial lighting in the rooms.

I will be using computer simulation to achieve the objectives of this research. I need to have a virtual model of the SAFAD building that has the same materials, geometry, electrical equipment, plugged loads, usage patterns, and other significant characteristics of the building so that it will give me an output like total energy consumption which has a closer value to the actual total energy consumption of the said building.

Right now, I am in need of the number of occupants for each respective classrooms in the SAFAD building for all the days last semester (January – May 2019) and I need to install illuminance sensors in one of the classrooms in SAFAD building that will be used for the validation of my model.

That is why I am writing this letter to request your good office that I will be allowed to:

1. Number of students that were enrolled for each subjects that the classes were happening in SAFAD building last semester (January – May 2019).
2. Install illuminance sensors and obtain illuminance data to one of the classrooms in the SAFAD building.

Thank you very much and I’m hoping for a positive response regarding my humble request.

Sincerely,

**Ivan John A. Naparota**

Student, MSEE

Noted by:

**Engr. Isabelo A. Rabuya, MS Engr. Percival J. Forcadilla, MEng**

Adviser Chairman, DEEE

**Engr. Mark Anthony Cabilo, MEng**

Co-adviser