Purpose and Description

Currently, there is a tedious process of scheduling teaching assignment, with careful consideration of a number of factors (constraints) such as, matching the course offerings with the qualification, faculty member schedule availability and expertise of the faculty member. There is also a teaching load policy to follow such as: there should be no more than 2 consecutive classes per day. Based on the members' research, there are about 80 School of Computing and Information Technologies course offerings per term that are matched to about 22 SoCIT faculty (both fulltime and part-time). Adding to the constraint, is the matching of the schedule of faculty member with room or laboratory availability. There are times that human error occurs (eg. Intentional violation of institutional policy) because the process of faculty loading is manual.

The Program Head/s of School of Computing and Information Technologies intends to have an Analytics-Based Reporting Module based on criteria such as: availability of faculty member, online teaching evaluation data, faculty specialization, faculty teaching history from Flavio Module, list of course offerings from Flavio Module, list of course schedule and room assignment from Flavio Module. These criteria will be required in the system in order to come up with a generated faculty schedule.

This study will be a significant endeavor in promoting good learning environment for APC, both for faculty and students, while making it easier for program admin to create and monitor faculty loads.

The Enhanced Faculty Loading System aims to provide these advantages:

Advantages of the proposed system to the school:

1. It will help the school to attain an easier and optimized process of assigning teaching schedule.
2. It minimizes delay in release of faculty loading.

Advantages of the proposed system to the students:

1. Students will be given a better quality of teaching since the faculty members will be having enough time to prepare their lessons before the start of classes.
2. Students will be given the appropriate faculty based on his/her specialization.

Advantages of the proposed system to the faculty members:

1. Faculty members having conflict schedules will be minimized.
2. Faculty members will have sufficient time to organize their lesson plans.
3. Faculty members will be able to teach the subject according to their specialization.