EE2022 Lab

The information in this document is applicable to Electrical Energy Systems module EE2022 only.

1. The lab experiments will commence from Monday, February 4th, 2013.

2. **The grades obtained for the laboratories will contribute toward the final grades of the module.** Failure to complete the lab experiment and submit the report will result in zero marks for the lab.

3. **Attendance is compulsory** and you are reminded to be punctual. Students will not be permitted to attend any session if you are late by more than fifteen minutes. Requests for change of schedule will generally not be allowed except for students with valid reasons who seek prior approval at least one week before the commencement of the lab session.

4. Please study the instruction manual for the experiment before you attend a lab class. Please remember to bring the printed lab manual to the lab. The supervisor will usually brief you on the salient points of the experiments. All experimental observations, graphs, results and conclusion must be recorded **directly** into your log book (log books, also called "***science practical***" book may be purchased from the NUS Co-op Book Store).

5. Please handle the instruments with care. As you will be working with electrical equipment, you **must wear covered shoes** and take other appropriate precautions when you are in the laboratory.

6. You are required to submit the Laboratory reports after completing the experiment. Work performed during the lab session is to be documented and turned in latest by the next day.

7. The lab report turned in by each student must be entirely their own work.

7. A good laboratory report is concise while providing enough details about the experiment. Use the following guide for your report presentation.

   Title: Provide the title of the lab exercise along with your name, and date the experiment was performed.

   Objective: Briefly state the objective of the experiment.

   Measurements/results: You will be required to make various measurements and observations. In certain cases you will be comparing theoretical values with those measured, or two different measurements of the same quantity. Most measurements will contain some error (difference between theoretical and measured values). Record these readings and the percent error in the form of a table. Show all calculations.
   Conclusion: In this section you are to state whether the objectives of the experiment were met. Were there any errors in measurements that you could not account for?

   If you wish to suggest any changes in the lab exercise, please feel free to do so. Please explain and provide justification.

A good lab report should provide comments and observations to indicate your understanding. Your lab reports should not contain the degree of detail as present in the lab manual, nor should you simply rephrase what is in the lab manual. Try to keep you reports as concise as possible without deleting essential information.

IMPORTANT!

Students are warned that copying of lab report is a serious offence which may lead to expulsion from the University. The lab officers have been instructed to confiscate all copies of lab reports not belonging to the students concerned during the lab sessions.

9. The log books can be collected from the lab 10 days after the date of the experiment. Please note that the grades awarded for the lab experiment will be released at the end of the semester.

10. The experiments will be conducted in Energy Management and Microgrid Lab located at WS2-05-20, indicated on the map below.