

# **CHM3010**

## **GENERAL REMINDERS FOR PRACTICAL**

### **ATTENDANCE**

- Lab attendance is compulsory. Be in the lab on time. Student who fails to turn in 10 minutes after the lab starts without any acceptable reason is considered absent. Do not forget to sign the attendance sheet.
- If you are sick and not able to attend the lab, please see the doctor at UPM Health Centre and get the medical certificate (MC). Replacement lab can be arranged with the coordinator if necessary.
- Student are not allowed to change lab.
- Read and study the experiments before performing them. Know what hazards are involved, the proper precautions to observe, how to handle and dispose hazardous materials. Learn proper use of equipment.

## **CLOTHING**

- Wear shoes. They protect the feet from spills or broken glass. Sandals and high heels are not allowed.
- Wear lab aprons/coat. This is the first line of defense against spilled chemicals.

## **EYE PROTECTION**

- Safety glasses or goggles must be worn at all times in the lab. They protect against impact and chemical splashes. No eye protection, no lab.
- Do not wear contact lenses in the laboratory, even with safety goggles. Contact lenses prevent rinsing chemical splashes from the eye. Some soft contact lenses also absorb chemical vapors (such as HCl vapors).
- Even small chemical splashes in the eyes must be treated as serious. The most important thing that can be done at the time a chemical gets in an eye is to flush it thoroughly for at least 15 minutes (use eye wash fountains). Do not quit just because it stops hurting. Get medical attention immediately.

# DATA BOOK

- All students must have data book for the practical.
- All experimental data will be recorded in this book. A copy to the data is to be given to demonstrator after the each practical class.
- The lecturer will check and sign the data book from time to time.

# LAB REPORTS

- Practical are carried out in pairs (2 in a group) but lab report must prepared and hand in by everybody.
- Think about what you are doing. Plan ahead and do not cookbook.
- Upon finishing an experiment, a copy of data must be turned in to the demonstrator. Your report will not be accepted if you did not turn in the data. Keep a copy for your reference when preparing the report. Student are advised to keep a data book.
- Reports must be written in English. Please try to use proper English when writing. Refer to books and dictionary when you are not sure of certain scientific terms.
- Reports must be turned in at the beginning of the next lab period. Otherwise the student will not be allowed to do the next experiment. Do not do the report the last 10 minutes before class starts. For late reports, 10% mark is deducted per day for a maximum of three days. The report will not accepted after five days.
- Do not copy. If you do, your report will be graded down severely (~50%). Other disciplinary action may also be taken.

1 29-4 Dec	PENDAFTARAN AMALI, TAKLIMAT AMALI DAN KESELAMATAN
2 6-11 Dec	Experiment 1: The Use of Volumetric Flask, Burette and Pipette
3 13-18 Dec	Experiment 2: The Use of Analytical Balance
4 20-25 Dec	Experiment 3: pH, Acid Dissociation Constant and Buffer solution
5 27-1 Jan	TUTORIAL
6 3-8 Jan	Experiment 4: Solubility Product, $K_{sp}$ of $\text{Ca}(\text{OH})_2$ and Common Ion Effect
7 10-15 Jan	Experiment 5: Reaction Kinetics
17-23 Jan	CUTI PERTENGAHAN SEMESTER

8 24-29 Jan	Experiment 6: Heat of Reactions
9 31-5 Feb	Experiment 7: Determination of Concentration of Potassium Permanganate Standard Solution
7-13 Feb	CUTI(TAHUN BARU CINA DAN MAAL HIJRAH)
10 14-19 Feb	TUTORIAL
11 21-26 Feb	Experiment 8: Electrochemical Cell - Nernst Equation
12 28-5 Mac	Experiment 9: Determining Molecular Weight by Freezing Point Depression Method
13 7-12 Mac	Experiment 10: Periodic Table
14 14-19 Mac	TUTORIAL
	MINGGU PEPERIKSAAN