Instructions to students

Introduction:

Experiments provide a way of scientific enquiry and probing nature through observations. A physics laboratory course should ideally give exposure to this. Physics experiments have also led to important technological applications. Therefore any educational program in science and technology can't be complete without a good experience in laboratory work.

As a technologist you will deal with instruments and apparatus of various kinds throughout your carrier. You will be greatly benefited from the beginning if you take a enthusiastic attitude towards experimental work. There is no substitute for the experience that you gain by conducting even simple laboratory measurements.

In addition to improve understanding of Physics, a laboratory course certainly exposes you to the technology of measurements, use of basic instruments and methodology of data analyses and the scientific documentations. Moreover it offers the student a unique opportunity of learning science by doing rather than by reading.

Specific Instructions:

1. Assessment in the course is based on i) your performance in the laboratory class ii) your laboratory report, iii) the semester examination and iv) Regular attendance.

2. A prior study about the experiment is essential for good performance in the class. Read the instruction manual carefully before coming to the lab. If you come unprepared to the lab; your performance would be accordingly affected.

3. You are expected to perform the experiment, complete the calculations and get the results corrected for every experiment on the same day within the laboratory slot assigned for it.

4. You must bring with you the following material to the lab: Observation book, writing materials, graph sheets and calculator.

5. At least one set of observation should be checked by the faculty.

6. Each graph should be well documented; abscissa and ordinate along with the units should be mentioned clearly. The title of the graph should be stated on the top of each graph paper.

7. Tentative Scheme of evaluation:
   Continuous internal evaluation (CIE) - 80marks
   semester end examination (SEE) - 20marks

8. Allotment of marks for the lab examination for the SEE :
   1. Write up**:**
      a) Formula with units b) Circuit diagram c) Observations& tabular columns (self explanatory) d) Nature of graph

      Write up: 05+05=10 marks
   2. Conducting Practical:
      Performance 12+12=24 marks
      Calculations, graphs, results 05+05=10 marks
      Viva-voce 03+03=06 marks
      25+25=50 marks