

PHYSICS DEPARTMENT
PYP100 LABORATORY : GENERAL INSTRUCTIONS

This Laboratory Course comprises of laboratory work in two parts of the lab in the Physics Department. Every students is expected to do 5 experiments in each part of the laboratory. There will be two labs tests, one each in the two parts on completion of the allotted experiments. Students should note the following instructions.

1. One turn (i.e. a laboratory period of 4 hours) is earmarked for performing one experiments.
2. Before coming to the laboratory, you must be aware of the experiment allotted to you and you should be well-prepared to perform the experiment in one turn. A booklet /laboratory manual provides write-up for each experiment. The write-up gives a brief description of the experiment including theory, apparatus, procedure, observation and tables etc. For more details, you should consults other reference books. When you come to laboratory class, your laboratory note book should contain the object, apparatus, formula used, outline of the procedure (in brief steps), relevant diagrams and observation tables. The laboratory note book will be checked by the teaching assistants. If your note book is found incomplete, you may not be allowed to perform the experiment.
3. You should note down all observations directly in the tables drawn in your note book, and nowhere else. For each set of measurements, you must get at least one reading checked by one of the teaching assistants present in the class.
4. Once the experiment is over, if time permits, you must try to complete all the calculations in the laboratory itself. Your calculations will be checked by the teacher, and you will be assessed on the understanding of the experiment performed by you in following turn. Therefore, your lab-reports must be complete in all respects on the next turn; they must include all calculations, graphs, possible sources of errors, precautions and log error calculations.
5. If a teacher finds your readings to be faked or copied from others, you will be awarded Zero marks out of the total 20 marks reserved for day-to-day evaluations, and the case may be referred to disciplinary committee for appropriate action. In case of doubt, it will be your responsibility to prove the authenticity of the readings recorded by you.
6. The academic evaluation in each laboratory part would be carried out through day-to-day assessments and a lab test. One experiment out of all the experiments allotted to you would be given during the lab test. There will also be a viva-voce on all the experiments performed by you to determine your understanding of the experiments. The lab note book should be submitted to the teachers at the beginning of the lab test.
7. In each laboratory part, every student should have performed a minimum of 4 experiments (out of the allotted 5 experiments) during his/her regular laboratory turns, failing which the student will be barred from taking the lab test.
8. The distribution of marks in each lab will be as follows:
 - (i) Day-to-day assessment: 100 marks
 - (ii) Lab test : 100 marks

Total 200 marks

