

# INDIAN INSTITUTE OF TECHNOLOGY GUWAHATI

Department of Electronics & Electrical Engineering

EE102: Basic Electronics Laboratory

General Instructions Regarding the Lab

## Part A: Course Logistics

1. Course Webpage: All students are required to check the course webpage regularly for course related announcements:

<https://www.iitg.ac.in/eee/ee102/>

2. Lab Sections: Each lab section assigned by the academic section are divided into two subsections denoted by A and B. For example, section L1 is divided into subsections L1-A and L1-B.
3. Lab Venue: Lab subsections denoted by A will report to Electronics Circuits Lab 1 (ECL1) located on the ground floor of G block. Lab subsections denoted by B will report to Electronics Circuits Lab 2 (ECL2) located on the top floor of the extension to G block.
4. Lab Groups: Each group will consist of 2 or 3 members as assigned by the course co-ordinator/instructor.
5. Seating Arrangement: The position of each group is marked on the experiment desks. Each group has to occupy the assigned place.
6. Attendance: All students are expected to report to the lab within 5 minutes of the start time of the lab to be marked as present. Those who do not attend at least 6 of the 8 labs will be debarred from end semester exam and awarded an F grade. If a student is absent in any of the labs, he/she will be given zero in that experiment.
7. Makeup Labs: All students who wish to utilize the makeup lab sessions should contact the Head TA of their subsection at least 48 hrs before the start of makeup labs. Student will be allowed to do makeup lab only on medical ground. He/she must submit medical certificate to show the reason of his/her absence in the lab.
8. Lab Safety: Student should wear closed shoes and follow all lab safety instructions.
9. Discipline: Students are expected to follow all instructions from the lab instructor, lab staff and lab TAs. All equipment should be switched off and the table should be cleaned before the group leaves the lab. A penalty of 1 mark will be deducted per instance of failure in this regard.

## Part B: Lab Records

1. Lab Manual: For all experiments, each group is expected to bring a printed copy (on A4 sheets) of the manual downloaded from the course webpage.
2. Pre-Lab: For experiments having pre-lab exercises, the pre-lab work written on A4 sheets should be submitted to the instructor before being marked as present.
3. Experimental Results: After performing each experiment, you need to show the results you have obtained to the TA and get his/her signature on the noted results. This signed experimental results need to be attached to the lab report.
4. Lab Reports: One common lab report of the previous experiment will be submitted by every group at the start of each lab. The report should contain an A4 size front page with the experiment title and number clearly specified. The names and roll nos of group members present for the experiment should be written on this sheet. Following the front page should be the pages from the lab manual and then pages of the pre-lab work. The observations from the lab obtained by executing the instruction in the lab manual and answers to questions in the lab manual should be handwritten on A4 sheets and included after this. The entire set of sheets should be stapled on one side and presented as a booklet.
5. Makeup Labs: If one of the group members is absent for a particular experiment, his/her name should not be included in the lab report. He/she has to do that experiment during the make-up lab and submit a separate report.

### Part C: Course Evaluation

1. Lab Evaluation: It has three parts:
  - a. Pre-lab work: 10 marks
  - b. Lab performance: 20 marks
  - c. Lab report: 20 marks

Note: Experiment no. 1 has no pre-lab work. For experiment no. 1, total marks will be out of 40.

2. Evaluation Scheme: The weightage assigned to each experiment, quiz and end semester exam are shown in the table below.

<b>Lab Activity</b>	<b>Weightage (%)</b>
Experiment No. 1	5
Experiment No. 2	7
Experiment No. 3	7
Experiment No. 4	7
Experiment No. 5	10
Experiment No. 6	10
Experiment No. 7&8	14
Quiz	15
End-Sem	25
<b>Total</b>	<b>100</b>