

Lab Policy & Outline - CSE251 Summer 2025

Marks Distribution

Lab Attendance	Lab Performance	Lab Report	Lab Test-1	Lab Test-2	Total
2	4	5	8% will be from the better one and 6% from the other, for a total of 14.		25

Attendance Policy

- Attendance in at least **5 out of 6 labs is mandatory** in order to attend lab tests.
 - **Excused absences must be backed by medical documents.**
- Lab performance marks will be awarded based on the performance of the group.
 - In case of absence, lab performance marks will be zero (0) for that experiment.
 - In case of **late**, **half attendance** will be considered, and for **2 lates**, **1 absent** will be counted.
 - If a student remains absent in a lab, he/she can do the **makeup lab** with another section.

To do so, he/she has to email and get permission from the faculties of his or her section (keeping them in the cc) and the section he or she intends to do a makeup lab with.

- If there is no section available to do the makeup lab, the student won't get any mark in lab performance even if he/she provides medical documents.

Lab Group

As a general rule - there will be **4 students per group**.

Lab Test

A hardware lab test-1 will be held based on Exp-01 to Exp-03 and another hardware lab test-2 will be held based on Exp-04 to Exp-06. Attending the lab tests is mandatory to get a passing grade in the lab. During the test, a student will be given one experiment randomly.

The students need to,

- (1) **Draw** the circuit of the experiment
- (2) **Construct** the circuit on the breadboard
- (3) Take **measurements**, do some calculations and/or show the output
- (4) Answer some simple **viva** questions from based on the things taught in class

Lab Report

- At least one student from each group should submit the lab report for each experiment.
- At the end of the semester, each student must submit a total of **2 reports**, **one before Lab Test 1** and **another before Lab Test 2**.
- Not more than 2 reports can be submitted by a student.

Plagiarism Policy for Lab Reports

- Plagiarism will not be tolerated and guilty students will be punished severely.
- If any report contains any form of plagiarism (e.g., copying from another student's report) or, using AI tools like ChatGPT or, copying from search engines like Google etc., the guilty students will get **negative 50% marks** in that report.

For example, if a report is evaluated out of 10 marks and a student is found guilty, he/she will get **-5 out 10** in that report.

He/She **will not be given any chances** to submit another report to make up for this negative mark as **a student can submit a maximum of 2 reports**.

- Repeated Offense: If a student is found guilty in both lab reports, he/she will receive a score of **-4 out of 4** for the overall lab report grade.

Tentative Lab Outline

Lab Activity	Lab Title
Exp-01	Review of Lab Equipment
Exp-02	Study of Op-Amp: Comparator, Non-Inverting Amplifier, Inverting Amplifier, Inverting Summing Amplifier, Study of VTC of Op-Amp Comparator, Non-Inverting Amplifier & Inverting Amplifier
Exp-03	Study of I-V Characteristics of Diode and Equivalent CVD Model Verification
LAB TEST-1	Syllabus: Exp-1, Exp-2 & Exp-3
Exp-04	Study of Half-Wave and Full-Wave Rectifier
Exp-05	Study of I-V Characteristics of Transistors (BJT) and Implementation of Logic Functions
Exp-06	Study of I-V Characteristics of Transistors (MOSFET) and Implementation of Logic Functions
LAB TEST-2	Syllabus: Exp-4, Exp-5 & Exp-6

Tentative Lab Schedule

[illegible]