# Lab Policy & Outline - CSE251 Summer 2025

#### Marks Distribution

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

### **Attendance Policy**

- Attendance in at least 5 out of 6 labs is mandatory in order to attend lab tests.
  - Excused absences must be <u>backed by medical documents.</u>
- Lab performance marks will be awarded based on the performance of the group.
  - o 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 Al tools like ChatGPT or, copying from search engines like Google etc., the guilty students will get <a href="negative 50% marks">negative 50% marks</a> 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

	CSE251 Lab Calendar - Summer 2025															
	Saturday	Sunday		Monday			Tuesday			Wednesday			Thursday			
Date	Activity		Date	Activity	I	Date	Activity		Date	Activity		Date	Activity	Dat	е	Activity
Jun 28	Experiment 1	I	Jun 29	Experiment 1 + 2 (Part-I)	Г	Jun 30	Experiment 1		Jul 1	Experiment 1	Г	Jul 2	Experiment 1	Jul	3	Experiment 1
Jul 5	Experiment 2		Jul 6	HOLIDAY		Jul 7	Experiment 2		Jul 8	Experiment 2		Jul 9	Experiment 2	Jul 1	0	Experiment 2
Jul 12	Experiment 3		Jul 13	Experiment 2 (Part II) + 3	ı	Jul 14	Experiment 3		Jul 15	Experiment 3		Jul 16	Experiment 3	Jul 1	7	Experiment 3
Jul 19	Labtest 1		Jul 20	Labtest 1		Jul 21	Labtest 1		Jul 22	Labtest 1		Jul 23	Labtest 1	Jul 2	24	Labtest 1
Jul 26	OFF (MID WEEK)		Jul 27	OFF (MID WEEK)	ı	Jul 28	OFF (MID WEEK)		Jul 29	OFF (MID-WEEK)		Jul 30	OFF (MID WEEK)	Jul 3	31	OFF (MID WEEK)
Aug 2	OFF (MID-WEEK)		Aug 3	OFF (MID WEEK)	ſ	Aug 4	Experiment 4		Aug 5	Experiment 4	ı	Aug 6	Experiment 4	Aug	7	Experiment 4
Aug 9	Experiment 4		Aug 10	Experiment 4		Aug 11	Experiment 5		Aug 12	Experiment 5	1	Aug 13	Experiment 5	Aug	14	Experiment 5
Aug 16	HOLIDAY	ı	Aug 17	Experiment 5	ı	Aug 18	OFF		Aug 19	Experiment 6	/	Aug 20	Experiment 6	Aug	21	Experiment 6
Aug 18	Experiment 5	ı	Aug 24	Experiment 6	ı	Aug 25	Experiment 6		Aug 26	Practice	/	Aug 27	Practice	Aug	28	Practice
Aug 23	Experiment 6	ı	Aug 31	Practice	ı	Sep 1	Practice		Sep 2	Labtest 2		Sep 3	Labtest 2	Sep	4	Labtest 2
Aug 30	Practice	ı	Sep 7	Labtest 2		Sep 8	Labtest 2		Sep 9	OFF	5	Sep 10	OFF	Sep	11	OFF
Sep 6	Labtest 2	ı	Sep 10	OFF	Ì						ı					
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