ECE Labs

Guidelines for Students

- The lab will start sharp on time (as per the time table).
- The relaxation time of 5 minutes will be given. Any entry will not be allowed after that.
- Any type of Indiscipline during the lab or around the lab premises may lead to strict action against the individual.

Flow of the session:

- The lab will start only when any one of the TA is available. So the student is required to maintain silence and decorum in the Lab.
- In every Lab session 20 minutes of briefing and discussion will be done in the following sequence:-
    - o 10 minutes of briefing regarding the experiment content and its key objectives
    - o 5 minutes for the doubt clearance
    - o 5 minutes will be for the discussion on applications.
- In application discussion, the TA who is briefing will randomly select any student from each row and ask him/her to give one example of application. Each student is expected to have a look into the application related to that particular experiment before coming to the Lab.
- 20 minutes of freeze time (where the groups will try to implement the circuit and debug all related issues on their own without the help of any TA), after 20 minutes of description and discussion, needs to be obeyed strictly.

Group Responsibilities:

- Students must sit on the respective table allotted to them and hence changing of seats are not allowed without a valid reason and permission from the JRE.
- Equal involvement of all the team members of a particular group is a must and the same can be randomly checked.
- Important points:

    1. A component box and breadboard will be issued to each and every group
    2. The issued resources have to be brought in every lab.
    3. Groups will be responsible individually for all the resources present on their table and the resources issued to them. Misplaced/damaged or not bringing the box will lead to penalties (check the grading scheme).

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Experiment/File Related:

- No student will be allowed to enter the lab without his/her lab file with all required stuff written, which includes:
    1. Abstract (Max 100 words)
    2. Circuit diagram (from lab handout)
    3. Observation table (Theoretical & Practical)
    4. Applications.
- Only experimental observations can be recorded in the file or on a separate sheet. No other writing work is allowed in the Lab. The file will be checked and its marks will be uploaded in the next week where the student must bring his signed observation sheet or any such notes as an attachment with his file.
- LTspice file(per student) of each upcoming lab need to be uploaded on the classroom drive till Sunday midnight. The same file has to be uploaded by each team member of a group.

Lab Etiquettes:

- In case of any theory/experiment related doubt, request the TAs to resolve. If unresolved, it can be escalated to the TF and then the JRE.
- Students are strictly prohibited to take lab items outside the laboratory.
- Food items/drinks/backpacks are not allowed inside the labs.
- Students have to finish the experiment within the given time-frame. The experiments are designed as per the allotted lab session.
- Students must come to the Lab in proper attire with the shoes being mandatory.

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Grading:

- Final grading will be marked once all the components are returned/chairs are arranged/equipment are OFF & covered.
- Grading Policy:

LTspice(2 marks)

Total marks(10)

Lab work(8)

1) Concept and Circuit understanding(3 marks)

Understanding regarding the concept, aim, circuit connections and equipment.

No understanding-0 marks, Partial understanding-1 marks, full understanding-3 marks

2) Component box with required resources.(1 marks)

3) File (2 marks):-

a) Abstract{maximum 100 words}, circuit diagram, application. (1marks)

b) Practical observations. (1 marks)

4) Correct output with explanation.(2 marks)

Penalty:-
- -1 marks for component loss, damage, resource mishandling
- -1 marks for not following the lab rules(pasted on lab doors).
- -1 marks for misbehavior with TAs/students or any indisciplinary action.
- -2 marks for not completing the lab in the 2 hour time slot.