Lab Introduction:

1. **Time arrangement and group division**

Section 1: Wednesday night 18:00-21:00

Section 2: Thursday night 18:00-21:00

Section 3: Friday night 18:00-21:00

2. **Team formation**

(1)Three students for one team

(2)Find your teammates by yourself.

(3)Register your team information via Quizzes on canvas before April 2nd.

(one register is enough for one team)

(If you still can not find a team by April 2nd, we will arrange a team for you)

(4)Pre lab report is individually and should be handed in at the beginning of each lab

(5)One post lab report for each team. For post lab report, you are required to hand in both a hard copy at the beginning of next lab and an e-version on canvas.

3. **Grading Rubric**

Labs will take 15% of overall grades with 5% for each lab.

For each lab, total mark is 100:

[a]. 20 marks for pre lab report

[b]. 20 marks for post lab report

[c]. 40 marks for attendance

(Please come to us to sign up at the beginning of each lab)

[d]. 20 marks for in-lab activities/performance

4. **Lab reports**

[a]. Pre lab Report Requirements: solutions for pre lab assignments

[b]. Post lab Report Requirements:

(1)objectives

(2)theoretical background

(3)experimental procedures

(4)results (figures)

(5)error analysis & comparison with theoretical results

(E.g. whether the results verify the theories? If not, what causes the errors possibly?)

(6)Conclusions

(E.g. what you can derive from this experiment? What you have learnt from this experiment?)

Some Important Lab Rules & Safety Cautions:

1. Please return the resistors, capacitors, amplifiers and other circuit components to our TAs and clean your lab table before leaving the laboratory
2. Please shut down the function generators, DC powers and oscilloscopes after you finished the experiment
3. Please kindly be gentle to the laboratory instruments and use them in a correct way. Damages to the instruments due to your incorrect operations will lead to deductions in your lab performance marks.
4. Please always remember to shut the power source before operating on the circuits.

Some Tips for Labs:

1. Go through the lab manual before lab and get familiar to the lab procedures & lab instruments
2. Record the pre-lab results since you will need them to compare with the experimental results
3. Make use of multimeters while checking your circuits
4. Always check your circuits once again before turning on the power source.
5. If you have any question, please feel free to raise your hand and ask us TAs or the lab supervisors.