# Electrical Circuits II Lab EEE 241L- Section:01

Class Time: Thursday(R) 11:20 AM - 02:30 PM

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**Email Format:** 

Subject: Course Code. Section. [Issue]

**Body:** Explain your issue. Signature: Your name, ID

You will not receive any response if the format is not followed.

### **Assessment Policy (Tentative):**

Class Performance	15%
Attendance	15%
Lab Report	25%
Lab Final	25%
Hardware Setup	15%
Viva	5%
Total	100%

You will be notified in class if there is any change in the distribution of marks.

#### Experiments:

Date	Name of Experiments
06/10/2022	Intro to the Class, Lab Work Station, and Equipment
13/10/2022	Lab 1: KVL and KCL
20/10/2022	Lab 2: AC Response
27/10/2022	Lab 3: Series RLC circuits
03/11/2022	Lab 4: Parallel RLC circuits
10/11/2022	Lab 5: AC Network Theorems (Thevenin)
17/11/2022	Lab 6: RLC Resonance, Bandwidth & Quality Factor
24/11/2022	Practice Lab
01/12/2022	Final Exam
08/12/2022	Setup Test
15/12/2022	Viva

Course Materials: https://sites.google.com/northsouth.edu/hassan/teaching

## North South University

### **Guidance for lab report writing:**

After completing a lab experiment, the Lab Report is due and submitted within one week during the next lab class. Everyone **submits one lab report** per experiment, and any late submissions will be penalised. Each group must also write the results and data (collected practically from experimenting) in the datasheet provided with the manual and get it signed by the Lab Instructor. This paper will also contain the name and ID of the student and must be attached to the Lab Report. It shall prove that the group completed their experiment successfully without manipulating any result. Below is a detailed description of each lab report:

- 1. <u>Cover Page-</u> All lab reports should have a cover page, and the same cover page should be used for all the lab reports. You can make photocopies of the cover page and use it, or take a printout that looks similar to the cover page. A cover Page template will provide by the instructor.
- 2. <u>Title</u> Give the Title on the first page from the same Lab manuals
- 3. **Objectives** You should briefly write what the aim of the experiment was. In other words, write what your intent is to achieve by experimenting.
- 4. <u>List of Equipment</u> -- A simple list of all the apparatuses and Equipment you used to do the lab experiment.
- 5. <u>Theory</u> In this section of the Lab Report, you will specifically write only the things taught during the class lecture time by the faculty. This section should be concise and to the point. Marks will be given based on your ability to explain what you understood during class. Copying anything from another lab report of a different group will earn your group and the group from which you have **copied a straight zero**. Copying anything from a lab report of a past semester will also make you a straight **zero** if caught.
- 6. <u>Circuit Diagram</u> Give the circuit diagram for the experiment; it may be computer-Aided or hand-drawn but should be clean and legible.
- 7. <u>Data/Readings/Truth table</u> This lab report section will contain the data you have collected practically in the lab. Attached is the Data/Reading in your Report.
- 8. **Questions and Answers**: There is a set of questions in the Lab Manual; for each Lab Report, there will be one set of Questions and Answers.
- 9. <u>Discussion</u>—This is one of the essential parts of the lab report. What you write here proves how attentive and careful you were during the lab class. Copying a single line from another person's discussion or a previous lab report will earn you a straight zero if you get caught. In your discussion, simply write what you did during the lab session (you may also write about small details), what you expected to see from the theoretical knowledge you had and what you eventually saw in practice. Suggest a legitimate reason for the possible fluctuation, if any. You can also write about the limitations and drawbacks of the experiment. You can also put your suggestion (If you have any) on improving our experimental setup. Your observation and the order in which you write them are essential to score good marks here.

\*\*\* Arrange the documents Pages/papers/Attachments from 1-9 according to the order above. \*\*\*