**International University**

School of Electrical Engineering

**Principle of EE1 Laboratory**

**EE052IU**

**[Lab 7]]**

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Lab Section: [7]

Course Instructor: [Nguyen Minh Thien]

**GRADING GUIDELINE FOR LAB REPORT**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Number** | **Content** |  | **Score** | **Comment** |
| 1 | **Format (max 9%)** | |  |  |
| * Font type | Yes No |  |
| * Font size | Yes No |  |
| * Lab title | Yes No |  |
| * Page number | Yes No |  |
| * Table of contents | Yes No |  |
| * Header/Footer | Yes No |  |
| * List of figures (if exists) | Yes No |  |
| * List of tables (if exists) | Yes No |  |
| * Lab report structure | Yes No |  |
| 2 | **English Grammar and Spelling (max 6%)** | |  |  |
| * Grammar | Yes No |  |
| * Spelling | Yes No |  |
| 3 | **Data and Result Analysis (max 85%)** | |  |  |
| **Total Score** | |  | |  |

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**Nomenclature**

VDD = DC Voltage Source

Vdd = AC Volatge Source

Iref = Reference Current

Etc.

**Theoretical Background**

In this section, describe the different circuit designs, show mathematical equations, and simulated output. When inserting an equation, use the Equation Editor, e.g.:

Vos = Vo/

You should also include schematics, and discuss expected results.

**Table 1**. Comparison of Circuit Parameters

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Vref** | **Iref** | **Iref2** |
| Circuit 1 | 0.01 | xxx | xxx |
| Cirucit 2 | 0.1 | xxx | xxx |
| Etc. |  |  |  |

**Experimental Procedure**

The goal in this section is to explain the experiment well enough that someone else could repeat the procedure. You should describe what equipment and components are used, how the equipment is set up, and how the data are collected. A schematic diagram may be necessary to fully explain the setup – remember – a picture is worth a thousand words.

**[Schematic of Circuit]**

**Figure X.** Circuit Diagram

In these writing assignments, you should figure out how to appropriately format your text. You should be using the correct symbols like “”, not “a”. The symbol “” requires the use of *Symbol* font. Also, superscripts and subscripts are easily done by selecting the text, and changing the format. For numbers less than 1, you should remember to type the leading zero, as in “Vin = 0.01V)”. Learn how to insert a Table in the text and format the table borders. Your reports will have a more professional character when you take the time to properly format the text.

**Experimental Results**

In this section, describe the results. Remember to refer your reader to specific Figures, Tables and Appendices where applicable and show your calculations and data manipulation. Note that it is preferable to have Figures and Tables close to the text where they are discussed. The goal here is to report the results – ***NOT*** to discuss whether they are good or bad results. Usually the trends in a graph are pointed out, but not fully explained. The discussion of the trend is saved for the Discussion section.

**Discussion of Results**

In the discussion, you should point out how your experimental results compare with theory, and suggest and explain reasons for deviations. Discuss the sources of error in this section.