

EE 312

Guidelines for Writing Comprehensive Reports 1 and 2

Two comprehensive reports (including worksheets and homework) are required in this course and they are worth 40 % of the total grade. Comprehensive report **I** is to be submitted one week after completing experiment 5. Comprehensive report **II** is to be submitted one week after completing experiment 10.

Your reports should be computer typed and spell-checked. Paragraphs should be written in Times New Roman, size 12 points and headings should be bolded, size 14 points. Use formal English, direct language, and simple terms. The following file has good information that might help you to improve your technical writing skills:

<https://msu.edu/course/be/485/bewritingguideV2.0.pdf>

Use the following checklist to complete the requirements for each experiment:

- 1- Title of the experiment
- 2- Objectives of the experiment [2 %]
- 3- Circuit diagrams [2 %]
- 4- Kinds of measurements that have been taken (e.g., $V_O(t)$ was obtained using an oscilloscope when we applied a 14-V_{pk-pk} sinusoid to the input; do not copy and paste the procedure!) [2 %]
- 5- Observations based on your measurements (e.g., I have observed clipping in positive half cycles of $V_O(t)$ when the input was a 14-V_{pk-pk} sinusoid, but the clipping disappears when input's peak to peak amplitude was reduced to 2 V) [4 %]
- 6- Discussion or analysis where you try to interpret your measurements/data and determine whether or not they are consistent with theory (e.g., the clipping in $V_O(t)$ is due to D_I operating in the forward region and hence acting approximately as a battery of value 0.7 V) [4 %]
- 7- A conclusion that includes a paragraph about meeting the objectives of the experiment [4 %]
- 8- Any comments you would like to add (e.g., it would be interesting to carry out the same experiment with a Ge diode in place of the Si diode; in that case I would expect $V_O(t)$ to look like this:...) [2 %]
- 9- References (if applicable)
- 10- Attachment of all of your lab worksheets that contain the details of your measurements and post measurement calculations in the appendix. [20 %]
- 11- Solution of the homework [10 %]

Follow the above order for each experiment then put all your sheets together under one cover sheet for the whole report. The cover sheet should show your name, number, name of the course, section number, and date of submission.