

## AME 21216 – Tech Memo Score Sheet

A4 – Electronics II

NDID#: \_\_\_\_\_

Lab Section (Day/time): \_\_\_\_\_

Item and Description	Points Awarded	Possible Points
<b>Technical Writing</b> – Please address all questions from the lab handout in the paragraphs and captions. You should have the relevant equations in your paragraphs.		3
<b>Plot of measured high-pass filter amplitudes <math>V_{OUT}</math> vs. <math>f</math> with theoretical curves</b>		3
<b>Plot of measured high-pass filter phase <math>\phi</math> vs. <math>f</math> with theoretical curves</b>		3
<b>Plot of non-dimensional, collapsed data <math> V_{OUT}/V_{IN} </math> vs. <math>\omega RC</math> with theoretical curve</b>		4
<b>Plot of non-dimensional, collapsed data <math>\phi</math> vs. <math>\omega RC</math> with theoretical curve</b>		4
<b>Plot of measured filter output <math> V_{OUT}/V_{IN} </math> vs. frequency <math>f</math> for filter design (Part II)</b>		3
<b>TOTAL</b>		20

## Technical Writing

- Include a *brief* summary of the procedure.
- Discuss the results using college-level English.
- Answer the suggested talking points at the end of the lab handout.
- Do *not* write a first-person narrative. Rather, write it as a declaration of objective observations, scientific facts, and logical deductions.

## Guidelines for Deliverables

- Use a 12 point “serifed” font such as Times New Roman.
- Document should be double-spaced.
- Document should have 1” margins in all directions.
- Page numbers are required centered at bottom of screen.
- Equations must be numbered.
- All variables must be italicized.
- All variables in equations must be defined (i.e. “where  $c$  is the speed of sound”).
- Theoretical curves should always be smooth and continuous.
- Measured data should be individual markers. If there are more than 20 measured data points, you connect them or use a continuous line.
- Plots should always have axes clearly labeled with units.
- Plots should always be centered with captions *beneath* labeled Fig. 1, etc.
- Captions should be the same font as the rest of the document.
- Do NOT use the \* symbol to denote multiplication.
- NO TITLES ON GRAPHS

**References** – Tech memos must include at least one reference. These can be data sheets from the lab website, articles from the internet, the textbook, etc. References should follow the ASME format.

(<https://www.asme.org/shop/proceedings/conference-publications/references>)