



Kathy Nightingale <nightingale.kathy@gmail.com>

BME354: Lab writeup expectations

Kathy Nightingale <kathy.nightingale@duke.edu>

Sat, Jan 10, 2015 at 11:16 AM

To: Matt Brown <matthewb@duke.edu>

Cc: Karmyn McKnight <karmyn.mcknight@duke.edu>, Sam McCachren <mccachren.sam@gmail.com>, Morgan Simons <morgan.simons@duke.edu>, Michael Marvin Rees <michael.rees@duke.edu>, Jeffrey Santoso <jeffrey.santoso@duke.edu>, Daniela Cruz <danielacruz89@gmail.com>, Will Eldridge <william.eldridge@duke.edu>, Elena Haag <elena.haag@duke.edu>, Robert Malkin <ramalkin@duke.edu>

Dear all -

Below is a summary of the lab report approach we are trying out this semester (this is also on the syllabus for my class), which we need you to review with your lab sections. Also, at the beginning of each lab, you'll need to tell the students whether the lab requires a 'lab summary' report, or a formal lab report (labs 6, and 9). I know we discussed not making separate group folder on each sakai site, but, I need to spend some time figuring out the best way to do this, so I will let you know by Thursday which way I think makes the most sense. As Matt said, if we have problems with students being late to lab, we can switch back to paper submission of pre-labs (and possibly lab reports as well).

Lab Writeup Expectations:

Each lab group (i.e., you and your lab partner) must complete a lab writeup for each lab. Like performing the lab exercise, the writing of the report and the data analysis should be even between the lab partners. For most of your labs, you will NOT write a formal report. Rather, you will submit a shorter version, which is a lab summary, including:

- 1) answers to the pre-lab questions
- 2) rewrite each question throughout the lab assignment, followed by your answer
- 3) the post-lab questions and answers

For two of your labs (Lab 6 (Incubator), and Lab 9 (Pneumotachometer)), you will submit formal lab reports, using a standard 4-page conference proceedings paper format (a template is attached). The lab report cannot exceed 4 pages. You must adequately present results, discuss those results (including things that do not make sense, and why that may be the case), and appropriately answer any questions raised during the procedure and in the post-lab questions. Distilling your information down to the pertinent points is more important than including the "kitchen sink" in these lab reports. For the Materials and Methods, you should list the material and equipment used during the lab (e.g., Oscilloscope Tektronix TDS-1012). You should NOT repeat the procedure already mentioned in the lab handout; simply reference it. However, be sure to include any deviations from the protocol, reasons for those deviations, etc. After reading this section of the lab report, someone should be able to replicate what you did along with lab handout. Results & Discussion: Provide all of the data acquired in the lab in a meaningful and efficient format (e.g., tables, plots, etc.). All figures, tables, plots must be numbered and labeled, with captions, and properly referenced in the text. All figure and plot axes must be labeled and include units!! All results must include units!! Include all analyses discussed in the lab handout, and provide equations that were used in these analyses (and any intermediate steps if they are not obvious and are significant). Answer all questions posed in the lab handout and post-lab questions (be sure to indicate the question number you are answering). Conclusions: A few sentences providing an overview of your findings, interesting observations, and overall success of your experiment.

All lab submissions (formal reports and weekly lab summaries) must be generated using a word processor (e.g., Word) or typesetting program (e.g., LATEX) using a reasonable font size and singlespaced with clear section headings. PDF electronic versions of your lab submissions will be submitted to Sakai by one of the lab partners.

On Tue, Jan 6, 2015 at 3:10 PM, Kathy Nightingale <kathy.nightingale@duke.edu> wrote:

Dear all -

It looks like Friday afternoon at 4 will be better for everyone - this will be a logistical meeting for BME354. So, lets all meet in the BME354 labs in the basement of Teer on Friday afternoon at 4. Please rsvp to verify you can make it.

Thanks.

On Tue, Jan 6, 2015 at 8:33 AM, Matt Brown <matthewb@duke.edu> wrote:

Hi,

I'm sorry this is late notice.

Let's meet at 4:30 Wednesday -- tomorrow! -- to introduce ourselves and get settled in to a semester of TAing BME354. I know that not everyone can meet at that time. We will catch those who can not meet at 4:30 another time.

-matt

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