Rubric for Electric Field Mapping: Lab 1 Physics 246
No lab can have more than 1500 words! No lab accepted >1500 words

Lab will be graded on a 10-point system as shown:

Title Page: 0.5pt
• Contains all information shown in the syllabus document on Blackboard or the website, 0.1 pt deduction for each missed value or position up to 0.5 pt.

Aim: 0.5 pts
• Clearly states the aim of the experiment in one statement.

Introduction (Theory/Background): 1.0pt
• Clearly stated purpose or hypothesis for the laboratory and included all relevant background and theory (0.5 pt).
• Relevant equations are introduced and defined (0.5 pt).

Procedure: 1.0 pt
• Clearly describes procedure including materials without bullet lists but complete sentences (0.5 pt)
• Provides annotated (labeled) sketch or diagram of the equipment used and how the equipment is connected (0.5 pt)

Results and Discussion: 4.0 pts
• 5 plots of electrodes with correctly drawn electric equipotentials of at least 5 equipotential lines not including electrode surfaces, with voltages labeled on plots for each equipotential line, and electrodes labeled (1.5pt)
• 5 plots of electrodes with correctly drawn electric field lines with correct direction indicated per line, at least 5 lines (1.5 pt)
• Detailed discussion of plots (which should be labeled with unique figure numbers and labels) results (plot lines) and how they correspond to theory, and if not then possible reasons for errors. (1.0 pt)

Conclusion: 1.0 pt
• Summaries without repetition overall results of experiment (0.5 pt).
• Clearly states agreement/disagreement of results with theory (0.5 pt).

Sample questions or calculations: 2.0 pts
• Sample questions at end of the lab.

Note: Additional points may be lost based upon General Format, Grammar, Appearance and Content: up to 1pt total deduction possible
• Conciseness of content up to 0.5 pt deduction
• Grammar and use of complete sentences up to 0.5 pt deduction
• No table/figure caption and numbering or incorrectly numbering 0.1 pt per table/figure
• Missing table column units or missing axes labels/graph title 0.1 pt per table/figure
• No page numbers – 0.1 pt deduction
• Poor formatting of content - up to 0.5 pt deduction
• References: can lose up to 0.5 pt if missing reference to website or text of image used in write up or missing quotations on copied text. If references are found to be missing with image or text copied directly from another source, the lack of referencing will be taken as an honor code violation.