

# H14POD Error & Data Analysis Laboratory Assessment (Provisional marking scheme)

<b>A title page including the project title</b> Name+student ID (1), Title+formatting(1)	/2
<b>Short summary one paragraph (one paragraph)</b> Explain what the aim of the report is ..... 1. Explain what is done in the report ..... 1. Explain the result..... 1	/3
<b>An introduction to the laboratory (one paragraph)</b> One paragraph + concise use of English.....2 Introduce COR with an equation.....1 All units and variables defined.....1 Mention that experiment and theory are used.....1	/5
<b>Justify measurement technique</b> (Why did you use it?) .....4 Describe four errors.....4 Give each error a quantitative error with justification.....2	/10
<b>Describing the measurement method (describe problems).</b> Diagram of measurement method or photograph.....4 A full list of apparatus used.....3 Detailed point by point reproducible description of method.....3	/10
<b>Describe how measurement error could be reduced.</b> Four points to be mentioned, give reason for each point.....8 Use of numbers in justification.....2	/10
<b>Main conclusions (one paragraph)</b> Concise English.....1 Summarize errors which influenced measurement.....2 Explain what was found out.....1 Give value of COR.....1	/5
<b>Plots</b> Plotted experimental data in the report.....2 Labels and units must be on ALL graphs or 0 will be awarded. Plotted simulated data (matlab+excel).....2 Labels and units must be on ALL graphs or 0 will be awarded. A screen shot.....1	/5
<b>Matlab Code Performance</b> -3 for hard wired input (i.e. no interactive use of input functions) -6 for minor error preventing running, (typically a typo) -12 for major algorithmic error resulting in wrong answer	/18
<b>Matlab Code Presentation</b> -3 for brief comments, -6 for no comments	/6
<b>Matlab Code Output</b> -6 No units or labels.	/6
Matlab animation. High quality 3D = full marks, 2D graph=5, no graph=0 Award points for creativity	/10
<b>Excel sheet presentation</b> The file must be clearly laid out so it can be understood at a glance.....4 Data sheets must be labeled.....2 Use of color to highlight.....2 Comments to explain what is going on.....2	/10
<b>MSEExcel Analysis</b> Graph of experimental data + raw data with units and labels.....2 Determine the COR of the experimental data in the spreadsheet with some type of statistics or fitting.....2 Graph of dynamic simulation + raw simulated data .....3 Comparison of simulated and experimental data.....3	/10

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