M&AE 3272 – Mechanical Properties and Performance Laboratory

Spring 2016 – Module 2: Transducer Calibration Sheet

Instructions : (1) This *Transducer Calibration Sheet*; (2) The associated calibration curve you created using your LabVIEW **vi** and (3) Your (optional) Abstract are the final deliverables for Module 2. All three items are due via hard copies at 6 pm, seven (7) Working Days after you made the measurements, at the Hand-in box in the basement of Upson Hall. In addition the original files of these items will be in your *Lab Notebook*. The calibration sheet and associated calibration curve that you hand-in will likely be identical to that being submitted by the other members of your group. If you write an Abstact it will be your own and it will likely differ from that written by other members of your group.

- You can complete this form on-line, download it, print it, paste it into your Lab Notebook and also hand it in with the other items that constitute your Report for Module 2 .

Lab Section / Group Letter	*Group Members*	Date of Calibration:	
Lab Section:	1	Date of Submission:	
Lab Group:	2		
	3		

Load Cell Characteristics : | *Page in Lab Book:*

Load Cell Beam Dimensions:	[L];	[H];	[D]
Computed Load Cell Range:	[lbf] ; *Basis:*		
Load Cell Sensitivity: *Computed:*	[V/lbf]	*Measured:*	[V/lbf]
Load Cell Zero Offset: *Measured:*	[V]		

Calibration and Unknown Loads and Voltages : | *Page in Lab Book:*

Load [lb]; *Volt* [V]	*Load* [lb]; *Volt* [V]	*Load* [lb]; *Volt* [V]	*Load* [lb]; *Volt* [V]	**Part 2: Unknown Load**	
				Meas Voltage:	[V]
				Unknown Load:	[lbf]
				Actual Load:	[lbf]
				Bias:	[lbf]
				Imprecision: $\pm$	[lbf]

Calibration Curve and optional Abstract : These two pages should be appended.