LABORATORY PROJECT NO. 2 Laboratory Notebook Grading



30		Communication
12		Student's work Reproducible from notebook
4		Written in Ink
4		Student Signed every page
4 6		Student Dated every page TA Signature for every lab session (-3 each session missed)
10	2.	Design of the Astable Multivibrator
5 5		2.1. Selection of R ₁ and R ₂
5		2.2. Selection of R_3 and C_1
20	3.	Construction and Testing of Astable Multivibrator
3		3.1 Measured Component Values
3 8 3 3		3.2 Square Wave Frequency
8		3.3. Predicted and Measured C ₁ and v ₀ Waveforms
3		3.4. Measured Value of R ₄
3		3.5. Flashing LED Rate
10	4.	Measurement of Visual Fusion Rate
4		4.1. Critical Fusion Frequency
4 3 3		4.2 LED Voltage
3		4.3 LED Current
20	5.	Design and Construction of LED Circuit
4		5.1. Equation for v_1 Before LED Turns On
3		5.2. Equation for v_1 After LED Turns On
3		5.3. Sketch of v_1 vs Time
3		5.4. Sketch of <i>i</i> _{LED} vs Time 5.5. Calculation of Potentiometer Setting
2		5.6. Plot of v_1 vs Time
4 3 3 3 2 2		5.7. Plot of i_{LED} vs Time
10	6.	
	•	6.1. Perceived LED Flash Rate for Central Field of View
4 3 3		6.2. Perceived LED Flash Rate for Peripheral Vision
3		6.3. Sketch of Peripheral Vision Response Waveform