**OPTICS EXPERIMENTS**

**Second Semester**

**Wave and Quantum Optics**

1. **Interference of Light Waves and Young’s Experiment**
2. **Diffraction Grating: To Measure the Wavelength of a Monochromatic Light Source by** **Using a Diffraction Grating**
3. **Measuring the Speed of Light by Using a Pulsating LED**
4. **Experiments with Diffraction from a Single Slit**
5. **Newton’s rings**: **To Determine the Wavelength of Sodium Light using Newton’s Rings**
6. **Linear Absorption Coefficient**
7. **Michelson Interferometer: Experiment to Determine the Wavelength of the He-Ne Laser Using a Michelson Interferometer**
8. **Malus’ law**