

List of Experiments

Week	General Topic	Specific Topic	Details
Optics Experiments			
1	Diffraction + Interference	Single and double slit	<ul style="list-style-type: none">• Diffraction by a single slit.• Young's double slit experiment.• Measuring the diameter of hair.
2	Diffraction	Diffraction Grating	Measuring of the diffraction grating constant.
3	Interference	Interferometers	Measuring the wavelength of a laser light using: <ul style="list-style-type: none">• Michelson's interferometer.• Fabry-Perot's interferometer.
4	Polarization	Polarimeter	Measuring the Coefficient of Specific Rotation of sugar solution.
5	MIDTERM EXAM		
Solid state Experiments			
6	Diffraction	Electron diffraction	<ul style="list-style-type: none">• Study of Electron Diffraction by Thomson and Reid Method.
7		X ray diffraction	<ul style="list-style-type: none">• Diffractometric Debye-Scherrer patterns of powder samples with a cubic powder sample.
8	Conduction	Electrical Conduction in solid Bodies	<ul style="list-style-type: none">• Temperature Dependence of a Noble Metal Resistor
9			<ul style="list-style-type: none">• Temperature Dependence of a Semiconductor Resistor
10	FINAL EXAM		