

# Laboratory of Modern Optics and Photonics (M.Sc.)

## Department of Physics, NIT Srinagar

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C. No. :PSPHY-LB2/106  
R. No. : 333

S. No.	Name of Experiment	Bench No.
1.	To find the wavelength of sodium light using Newton's rings.	
2.	To find the angle of minimum deviation, angle of prism and refractive index of prism.	
3.	Determination of Planck's constant by measuring radiation in a fixed spectral range.	
4.	To determine the relationship between the intensity of the transmitted light through analyzer and ' $\theta$ ', the angle between the axes of polarizer and analyzer and to verify Malus Law.	
5.	Determination of wavelength of monochromatic light with the help of Fresnel biprism.	
6.	To determine splitting of lines by Zeeman effect experiment.	
7.	Measurement of coherence length of laser using Michelson interferometer.	
8.	To determine the specific rotation of the sugar solution using Laurent's half shade polarimeter.	
9.	To determine the line width of a laser using monochromator.	
10.	To find the thickness of enamel coating on a wire by diffraction	