

ENGINEERING PHYSICS LAB

S.NO	NAME OF THE EXPERIMENT	NAME OF THE APPARATUS/EQUIPMENT	MAKE	Quantity
1	Determaintion of radius of curvature of a given convex lens Newton's rings.	Newton's Ring Apparatus – Plano convex lens of 200 cm fl 50 mm dia, Held in brass frame with pressure screws with stand with plain glass, Newton Ring Microscope	M/s. Scientific Enterprises, Hyderabad	1
2	Determination of wave length of different spectral lines in mercury spectrum using diffraction grating in normal incidence configuration	Spectro meter – 6 “ ,Diffraction Grating Mercury vapor lamp ,Reading lens Spirit level		01
3	Verification of Brewster's law	Verification kit		
4	Determination of dielectric constant by charging and discharging method	Dielectric constant Kit		01
5	Study the variation of B versus H by magnetizing the magnetic material (B-H curve).	BH Curve apparatus kit		
6	Determination of wavelength of Laser by diffraction grating	Diode Laser ,Stand for grating ,Lycopodium Slide, White Screen with holder Diffraction gratings 500 LPI / Three in One gratings		
7	Plank constant using photo electric effect	Digital Power supply , Photo cell with Light source and Different Types of Filters		
8	Determination of energy gap of semi-conductor using four probe method	Four Probe Apparatus		
9	Determination of energy gap of semi-conductor using pn junction diode	Pn junction diode Apparatus		
10	Magnetic Field along the axis of current carrying coil – Stewart ges apparatus	Stewart ghee's apparatus, Battery Eliminator, Rheostat – 50 ohm/2,3A Ammeter 0-10A,Single Plug key Commutator- Four plug		
11	Determination of Hall voltage and hall Coefficient of given semiconductor using hall Effect	Hall Effect Experiment - complete set		
12	Thermistor Characteristics-Temperature Coefficient	Thermistor Apparatus		
13	Determination of acceleration due to gravity and radius by using compound pendulum	Compound Pendulum Apparatus		

14	Determination of magnetic susceptibility by kundt s tube method	Kundt's Tube Apparatus		
15	Determination of rigidity modulus of the material of the given wire using torsion pendulum	Torsion pendulum set up Stop clock	M/s. Scientific Enterprises, Hyderabad	
16	Sono meter- verification of laws of stretched strings	Sonometer with 2 bridges and 3 wires Tuning Fork- set of 8 welch type, Weights - 150 gm each 50 gm		
17	Determination of youngs modulus for given material of wooden scale by non - uniform bending	Young's modulus bending of beam Slotted weights - 500 gm each 100 gm		
18	Determination of frequency of electrically maintained tanning fork by Meldies experiment	Meldies Apparatus Battery Eliminator- 2,4,6,8,10,12V Physical Weight Box - 1 mg to 100 gm		
		Total Cost	2,25,050	