

Name of Lab: Physics Laboratory

Floor Area: 192 Sq.m.

S. No.	Name of Items	Specification	Qty
1.	Specific Resistance of given wire using a C.F. bridge	RSI Make	02
2.	Mechanical equivalent of heat with Callendar & Barne's method.	RSI Make	02
3.	Calibration of Ammeter & Voltmeter by potentiometer.	RSI Make	01
4.	Characteristics of p.n. junction, Zener diode.	RSI Make	03
5.	Characteristics of a photo cell.	RSI Make	02
6.	Dispersive power of prism.	RSI Make	02
7.	Wavelength of spectral lines by grating.	RSI Make	02
8.	ECE of Cu using Tangent / Helmohtz galvanometer	RSI Make	01
9.	e/m by magnetron method.	RSI Make	03
10.	Energy band gap experiment setup.	RSI Make	03
11.	Hall effect setup.	RSI Make	01
12.	Half Wave and Full Wave rectifiers.	RSI Make	03
13.	Surface tension of liquid by Jager's method.	RSI Make	03
14.	Mechanical equivalent of heat by Joule's calorimeter.	RSI Make	02
15.	Thermal conductivity of a bad conductor by Lee's method	RSI Make	02
16.	Focal points, by Newton's method	RSI Make	02
17.	Nodal Slide method.	RSI Make	04
18.	Wavelength of monochromatic light with Newton's ring method.	RSI Make	02
19.	Polarization of Laser light and to verify Malus law.	RSI Make	02
20.	Specific rotation of cane sugar solution by polarimeter.	RSI Make	04
21.	Planck's constant by photo electric effect.	RSI Make	02
22.	Resolving power of a telescope.	RSI Make	01
23.	Single stage RC coupled amplifier (with & without feedback)	RSI Make	02
24.	Value of Stefan's constant.	RSI Make	05
25.	Susceptibility measurement by Quinke's method.	RSI Make	01
26.	Study of regulated power supply.	RSI Make	03
27.	Series & Parallel LCR resonant circuits.	RSI Make	03
28.	Transistor (PNP & NPN) characteristics.	RSI Make	03
29.	Ultrasounic velocity in liquid.	RSI Make	01
30.	Variation of magnetic field	RSI Make	04

31.	Coefficient of viscosity of a liquid by Poiseuille's method.	RSI Make	02
32.	Wavelength of monochromatic light with Fresnel's Biprism.	RSI Make	01
33.	Battery charger	Out put voltage : 6/12v Out put current : 6Amp	01
34.	Battery eliminator	Line & load regulation :0.5%	02
35.	CRO (Aplab Make)	20mhz Dual Trace Oscilloscope	01+01
36.	Digital Multimeter	Ac 0-1000v & 0- 1000mA Dc 0-1000v & 0- 1000mA R = 0-1M ohm	03+04
37.	Multimeter (Analog)	Ac 0-1000v & 0- 1000mA Dc 0-1000v & 0- 1000mA Resistance = 0-2M ohm. Capacitance =2000pF- 20 μ F Frequency = 2KHz - 15MHz	05
38.	Ordinary Balance	0 - 5kg	01
39.	Physical Balance	0 - 50mg	01
40.	Resistance Box	0.1 - 50ohm	02
41.	Rheostat	15 ,20, 40 102,160,220Ohm	06
42.	Spherometer	-10 to 10mm	05
43.	Stop Watch	0 - 60Sec	10
44.	Screw gauge	0 - 20mm	10
45.	Traveling Microscope	10x eyepiece with fine cross wire, H.S=22cm/0.5mm ,VS=15cm/0.5mm,Ver nire scale = 50cm, LC=0.01mm	04
46.	Vernier Calipers	0 -15cm	10
47.	Weight Box	5mg -100 gm	05
48.	Potentiometer	12 wire	04
49.	Ammeter	0-50mA & 0-3A	05
50.	Voltmeter	0-1v & 0-3V	04
51.	Grating (Imported)	600 line/mm	04
52.	Galvanometers	-50 to 50 div	10
53.	Hall probe	In -As Crystal & Ge crystal	01

54.	Half meter scale (wooden)	0 – 50cm	10
55.	Mercury vapour lamp with choke	125watt 200-250volt	06
56.	Meter scale (wooden)	0-100cm	10
57.	Sodium vapour lamp with choke	55 & 35 watt, 200 - 250volt	04
58.	Nife cell	1.5v & 2.8v	05
59.	Spectrometer LC=60 sec	0-360 ⁰	01
60.	Spectrometer LC=30 sec	0-360 ⁰	01
61.	Constant current sources	0-400mA	02
62.	A.C. Variac	0-270v & 2Amp	02
63.	Computer	P-IV IBM	01
64.	Printer	HP-Laser Jet-1010	01
65.	UPS (A PC)	800v	01
66.	J by Callendar and Barne's method		01
67.	Resolving power of Telescope		01
68.	Calibration of ammeter and Voltmeter		01
69.	ECE of Cu using Tangent/ Helmholtz galvanometer		02
70.	Study of Hystersis curve of given sample of ferromagnetic material		01