



List of Lab-Instruments in Department of Physics

SI No.	Physics General / Hons. Lab
1.	Modulus of rigidity determination set-up.
2.	Verification of Stefan's Law by electrical method.
3.	Digital Balance
4.	Band-Gap determination apparatus
5.	Young's Modulus determination set-up
6.	Determination of Moment of Inertial by lamp and scale arrangement (additional different geometric structures)
7.	Set-up for determination of thermal conductivity of a bad conductor (Travelling Microscope, Induction Heater, Thermometer)
8.	Oscillation Magnetometer set-up
9.	Determination of co-efficient of viscosity set-up
10.	Newton's Ring experimental set-up
11.	Polarimeter and lamp
12.	Study of temperature transducers set-up (CRO: 20 MHz)
13.	Study of 'g' by using a compound pendulum set-up
14.	Carry-Foster's Bridge set-up
15.	Kirchhoff's Law verification kit
16.	Network Theorem verification kit
17.	Determination of refractive index of a liquid by mirror and lens set-up

SI No.	Physics General / Hons. Lab
18.	Hall-measurement set-up (Constant current supply, Digital Gauss meter, electromagnet)
19.	Set-up for e/m determination by J.J. Thompson's method
20.	Planck constant determination set-up
21.	Dielectric constant determination set-up
22.	Thermocouple trainer kit
SI No.	Electronics Lab
1.	Zener Experiment set-up unit
2.	Set-up for determination of band gap of a given semiconductor at different temperatures
3.	Analog work-station unit
4.	Op-Amp experimental set-up (Type: 741-03)
5.	Audio Frequency Oscillator unit

6.	Wien-Bridge Oscillator unit
7.	Anderson Bridge set-up unit
8.	Cathod-ray Oscilloscope (30MHz, 50 MHz)
9.	True RMS AC milli-voltmeter
10.	LCR experimental set-up unit
11.	Op Amp (Type: 741CP)
12.	Digital IC trainer kit (D1/88/1)
13.	Digital IC trainer kit (D1/88/II)
14.	Bridge Rectifier and Filter set-up unit
15.	Set-up for studying transistor characteristics
16.	Study of FET characteristics set-up
17.	Regulated Power Supply
Sl No.	Dark Room
1.	Study of diffraction pattern with Cross-Grating using a LASER source unit (Spectrometer, LASER source, Power supply)
2.	Determination of Focal length of a convex lens using a LASER source by displacement method
3.	Determination of $\mu - \lambda$ characteristics and dispersive power of a prism (spectrometer, Mercury (Hg) Source)
4.	Determination of wavelength of light (LASER) by using a plane grating
5.	Michelson Interferometer
6.	e/m determination by magnetic focussing method using a Helmholtz coil
7.	Planck Constant determination unit

Sl No.	Physics PG Lab (General / Thin Film/ Applied Electronics)
1.	Four probe set-up for Resistivity measurement
2.	NMR spectrometer (CRO 20 MHz)
3.	Photoconductivity determination set-up (luxmeter, Power Supply, Multimeter)
4.	Monochromator
5.	Ellipsometer
6.	Desktops with keyboard and CPU
7.	Hysteresis loop tracer (CRO 20 MHz)
8.	ESR spectrometer
9.	e/m determination by magnetic focussing method using a Helmholtz coil
10.	Set-up for Hall effect, Magneto resistance and temperature dependence of Hall co-efficients (Constant current power supply, electromagnet, Digital Gaussmeter, Hall

	probes)
11.	Set-up for studying UJT characteristics
12.	Set-up for studying astable, monostable multivibrators (CRO 20 MHz, function generator)
13.	Active and Passive filters
14.	Set-up for experiments on DIAC characteristics
15.	Set-up for experiments on TRIAC characteristics
16.	Set-up for experiments on SCR characteristics
17	High Vacuum Coating Unit : Thermal Evaporation Unit
18	Lissajous Figure
Sl No.	Medical Electronics Lab
1.	LASER experimental set up (LASER source and others)
2.	Optical bench for fibre optics experiments (LASER source, power supply, detector)
3	Electro Cardio Graph (ECG)
4	Electro Encephalograph (EEG)
5	Audiometer
6	Pulse Oxymeter
7	Microprocessor