

Various laboratory Facilities

Post Graduate and Under Graduate Laboratories

General & Optics Laboratory

- **UV- VIS Spectrophotometer**



- **B-H Hysteresis loop tracer
ES-320**

- **Measurement of high
resistance by substitution
method using digital
nanometer ES-287**



- **Measurement of electron
mobility Es-306**

- **Ultrasonic interferometer**

- **Michelson Interferometer**



Material Science Laboratory

- Electronic Balance Capacity 200G. Model N0.- AA2200
- Measurement of Magneto-resistance of Semiconductors
- Four probe arrangement
- Magneto resistance set up DMR-10
- Electromagnet EMU-50
- Constant current power supply DPS-50
- Digital Gauss meter DGM-102
- Temperature Dependent Hall Effect
- Hall effect setup DHE-22
- ESR Spectrometer

- Techno Search Instruments
- Hydraulic press with die set
- KBr Press -15 Ton
- KBr Die-13mm
- Agate Mortar & Pestle 2” Dia
- Spectroscopic grade KBr
- Dry Box
- Nujol Bottle 500 ml
- Microprocessor based PH Analyzer (PHAN) Lab India Instruments Pvt. Ltd.
- High Temp. Furnaces Rated Max. Temp. 1400C
- Electric Agate Mortar Pastle 100 mm dia



Nuclear Physics Laboratory

- Gieger Mueller counter
- Scintillation counter
- γ -ray spectrometer
- β - reference sources
(^{60}Co , ^{90}Sr , in μCi range)
- γ - reference sources
(^{133}Ba , ^{137}Cs , in μCi range)
- Lead Shielding
- Gamma Reference Standard Set



Microwave and Communication Laboratory

X-Band Microwave Bench with Dielectric measurements for solids & liquids

X-Band Microwave Bench for different types of antenna characterization and radiation distribution measurements.

- Klystron power supply KPS-151 (2Nos.)
- Gunn Power supply X111
- VSWR meter (Solid State) VS-411DX
- Tri-pot stand for antenna for polar pattern X-5145
- Microwave power meter with digital readout AT-211B



BASIC ELECTRONICS LABORATORY

- Function generators
- Dual trace oscilloscope
- Digital storage oscilloscope
- IC testers
- Design facilities for Op-Amp, SCR, Gating circuits, counters, resistors, FET, MOSFET based experiments.
- Training kits for analog/ digital communication



OPTICAL FIBER COMMUNICATION LABORATORY

- Advance Fiber Optic Communication Kit (Link-B)
- Physics of Fiber Optic Training Kit (Link-D)
- Laser Diode and Glass Fiber Based Fiber Optic Kit (Link-E)
- He-Ne Laser
- Fiber Optic Power meter

DIGITAL COMMUNICATION LABORATORY

- BPSK/DPSK/DEPSK Modulation/ Demodulation Kit (ADCL-01)
- QPSK/DQPSK Modulation/Demodulation Kit (ADCL-02 / ADCL-03)
- DPCM/ADPCM modulation/Demodulation Kit (ADCL-07)
- Interactive computer based training manuals and software for each kit (05)



MICROPROCESSOR & MICROCONTROLLER LABORATORY

- 8086 Dyna Microprocessors
- Dyna 52 Microcontrollers
- Interfacing Cards
- SMPS and PC interface

