



DEPARTMENT OF PHYSICS
CHAUDHARY DEVI LAL UNIVERSITY, SIRSA
(Established by the State Legislature Act 9 of 2003)

FACILITIES

1. Infrastructure

Class Rooms:	02
M.Sc. Labs.:	02
Research Labs.:	03
Computer Lab.:	01
Faculty Rooms:	05
Chairperson's Office:	01
Seminar Hall (Common):	01
Library (Central):	01
Internet facilities for Staff and Students:	Wi-Fi, LAN

2. Instrumentation

There are sufficient numbers of instruments/equipments in M.Sc. Labs. as per the Syllabi of the Course.

Some sophisticated instruments for synthesis and characterization of materials are available in Research Labs.

Sr. No.	Equipment/Item	Qty.
1	Temperature controlled Cryostat with High vacuum system	01
2	Hot plate Magnetic stirrer	01
3	pH Tester	01
4	LCZ meter	01
5	RC coupled Amplifier	01
6	Programmable Muffle furnace	01
7	Pico-ammeter with 220 V source	01
8	Multiplexing oscilloscope	01
9	Analog digital converter (40 MHz)	01
10	Analog digital converter (30 MHz)	02
11	Binocular microscope	01
12	Zeeman effect Apparatus with Etalon	01
13	Spectrometer for Rotational spectra of Doeline vapour	01
14	Curie temperature kit	01

	(Ferroelectric materials)	
15	Compressibility of liquid kit	01
16	LEDs & Lasers kit	01
17	Stirring Rotor (Hittich, SS4)	01
18	Digicop Xerographic System	01
19	Digital Gauss Meter	03
20	Audio Frequency Oscillator	02
21	Frank-Hertz Experiment	01
22	Study of Energy Band Gap and Diffusion (P-N Junction)	01
23	Study of Hybrid Parameters of transistors	02
24	Study of Schmitt Trigger and Comparator using OP-AMP	02
25	Study of Class A, AB, & B Push Pull Amplifier	01
26	Characteristics of UJT and Measurement of its parameters, and UJT as Saw Tooth Generator with 3 digital meters	02
27	Characteristics of FET, Measurement of its parameters and FET amplifier with built in 3 digital panel meters	02
28	Different types of Active Filters Using OP-AMP	02
29	Study of T-Type low pass, high pass, band pass and band stop Filters	02
30	Verification of Network Theorems	02
31	Study of Clipping & Clamping circuits	01
32	Characteristics of Optoelectronic Devices	01
33	Experimental board on Counter & Shift Registers	02
34	Verification of truth table of Demultiplexer (1:14) using IC-74150	01
35	Verification of truth table of Demultiplexer (1:16) using IC-74154	01
36	Study of Amplitude Modulation and Demodulation with built in Carrier frequency	01
37	Study of Frequency Modulation	01
38	Performance study of SCR Characteristics with built in three digital panel meters	01
39	Study of Logarithm Amplifier using OP-AMP IC -741	01
40	e/m Experiment	01
41	Apparatus for the measurement of susceptibility of paramagnetic solution by Quinck tube method	
a	Quinck's tube with stand	02
b	Sample: FeCl ₃	02
c	Constant Current Power Supply	02
d	Traveling Microscope	01
42	Hall effect experiment	
a	Hall Probe "Ge" Crystal N-type	02
b	Hall Probe "Ge" Crystal P-type	02
c	Hall Probe stand	02
43	Measurement of Magneto-resistance of semiconductor	
a	Four Probe arrangement	01
b	Sample: 'Ge' Crystal N-type	01
c	Magneto Resistance Set-up	01
44	Lattice Dynamic Kit with Frequency Meter	01
45	Semiconductor Lasers Apparatus	01
46	Fermi Energy Apparatus	01

47	Oscilloscope with color LCD digital redout (30 MHz)	02
48	Microcontroller Based Oscilloscope (30 MHz 2 Channel)	02
49	Fourier Analysis Kit	01
50	Abbe Refractometer	01