

3.7. Laboratory

Laboratories are essential facilities for students to gain practical experience and conduct experiments in Physics, Chemistry, Botany and Zoology. At GDC Takipur, adequate laboratory facilities are available to the students for hands-on practice in different experiments listed in HPU syllabus.

(i) Laboratories with adequate equipment according to syllabi

Yes, Laboratories with adequate equipment according to syllabi are available for practical purposes

Chemistry Lab Items

Sr. No.	Items	Quantity
1	Measuring Cylinder 500ml	12 pcs
2	Silica Gel for TL.C	01 pc
3	Separating funnel 500ml	02 pcs
4	Chamber with Lid	24 pcs
5	Beaker	16-02= 14 pcs
6	Measuring Flask 250ml	02 pcs
7	TestTube15*125mm	100-15= 85 pcs
8	Burettestand	24 pcs
9	Sprays	02 pc
10	ReagentBottle500ml	24-02= 22 pcs
11	Burette	24-02= 22 pcs
12	Slalagmomelar	24-02= 22 pcs
13	Tong	24 pcs
14	China Dish	24-02= 22 pcs
15	Hot Air Oven	01 pc
16	Specific Gravity Bottle	24-02= 22 pcs
17	Electronic Balance	01 pc
18	Conical flask	24-03= 21 pcs
19	Glass Rod per Solid	01 pc
20	Thermometer	12-02= 10 pcs
21	Water Bothrod12*10*46hole3	01 pc
22	Capillary tubes	04-03= 01 packets
23	Glassrodper (Hollow)	01 pc
24	Laboratory Hot Plate	02 pcs
25	Testtubeholder	24 pcs
26	Ferroussulphate	01 pc
27	Fusiontubein Gross	100-20= 80 grams
28	Testtubestand	12 pcs
29	Spirit lamp	24 pcs
30	Tripodstand8*4per	24 pcs
31	Viscometer	24-2= 22 pcs.
32	Funnel3"Glass	24 pcs
33	TLC Plate	24-1= 23 pcs
34	Wire guage per DZN	100Dzn
36	Micropressor PH Meter	02 pcs
37	Copper Calorimeter Wooden Case	20 pcs
38	Colorimeter Disital	01 pc
39	Spatula	05 pcs
40	Muffle Furnasce	01 pc
41	Electronic Balance	01 pc

Physics Lab Items

Sr. No.	Items	Quantity
1	RC Circuit Apparatus	02 pcs
2	Verniercaliper	10 pcs
3	Multimeter	02 pcs
4	Stop Watch	12 pcs
5	Screw gauge	10 pcs
7	Spherometer	01 pc
8	Multimeter Digital	01 pc
10	Triwheel with counter	03 pcs
11	LCR in series apparatus	01 pc
12	LCR Parallel apparatus	03 pcs
13	Katerspendulum apparatus	03 pcs
14	LCR impedance apparatus	03 pcs
15	Senate brass with stand	02 pcs
16	Electric vibrator	01 pc
17	Two Dimensional electric collision	01 pc
18	Magnetic field apparatus	02 pcs
23	10 mhz to 25 mhz frequency two channel function generator	02 pcs
24	Plunk Constant appratus using LED	02 pcs
25	Stefan Constant appratus	02 pcs
26	50 khz digital multiple meter	02 pcs
27	Transistor Characteristics apparatus with Aluminium panel and square meter	02 pcs
28	Newton Ring apparatus	02 pcs
29	Reading Telescope for pendulum with stand	04 pcs
30	Solid Equilateral optical prism dispersive prism	10 pcs
32	Ionization potentin of mercury	02 pcs
32	PN Junction	03 pcs
33	Voltage Regulation using with aluminium & digital panel	02 pcs
34	Energy Band appratus	02 pcs

Botany Lab Items

Sr. No.	Items	Quantity
1	Compound Microscope	01 pc
2	Dissecting Microscope	01 pc
3	<i>Hydrilla</i>	01 pc
4	<i>Vallisneria</i>	01 pc
5	<i>Nelumbo</i>	01 pc
6	<i>Opuntia</i>	01 pc
7	<i>Salivina</i>	01 pc
8	<i>Pinus</i> , <i>Cyas</i> needle and ovule	02 pcs
9	Slide of <i>Hydrilla</i>	01 pc
10	Slide Microscope	04 pcs
11	Microscopic Coverglass	03 pcs
12	Forceps Stainless steel	02 pcs
13	Scissors Stainless	02 pcs
14	Petri Dish	01 pc
15	Petri Dish	01 pc
16	Utility Tray	02 pcs
17	Test Tube	09 Boxes
18	<i>Equisetum</i>	20 pcs
19	<i>Nostoc</i>	20 pcs

INFRASTRUCTURE AND RESOURCES

20	<i>Oedogonium</i>	20 pcs
21	<i>Selaginella</i>	20 pcs
22	<i>Polysiphonia</i>	20 pcs
23	<i>Vaucheria</i>	20 pcs
24	<i>Albugo</i>	20 pcs
25	<i>Penicillium</i>	20 pcs
26	<i>Rhizopus</i>	20 pcs
27	<i>Puccinia</i>	20 pcs
28	<i>Agaricus</i>	20 pcs
29	<i>Marchantia</i>	20 pcs
30	<i>Funaria</i>	20 pcs
31	Safranin Staining	01 pc

Zoology Lab Items

Sr. No.	Items	Quantity
1	Compound Microscope	02 pcs
2	Dissecting Microscope	02 pcs
3	<i>Sycon</i>	01 pc
4	<i>Obelia</i>	01 pc
5	<i>Taenia solium</i>	01 pc
6	<i>Ascaris</i>	01 pc
7	<i>Nereis</i>	01 pc
8	<i>Filaria</i>	01 pc
9	<i>Echinus</i>	01 pc
10	<i>Exocoetus</i>	01 pc
11	<i>Petromyzon</i>	01 pc
12	<i>Herdmania cysticus</i>	01 pc
13	<i>Balanoglossus</i>	01 pc
14	Draco	01 pc
15	Duck (anans)	01 pc
16	Test Tube	09 pcs
17	T.S. <i>Taenia solium</i>	01 pc
18	T.S. <i>Ascaris</i>	01 pc
19	L.S <i>Sycon</i>	01 pc

(ii) Usage of available lab infrastructure

The usage of lab infrastructure is 100%, as all the students available in the classroom can perform their experiments.



3. 8. Computers

(i) Adequate number of computers

There is one computer per 15 students with 9 computers in working condition



(ii) Usage of computer hardware

There is a 100% usage of the computer hardware.



3.9. Canteen/Staff room/Faculty room, space for NCC, NSS, Rangers and rovers, examination room, medical care facilities

Yes all above mentioned facilities and rooms are available in the college.

