SCHEDULE-I: LIST OF EQUIPMENTS

Sl. No.	Particulars	Specification	Quantity
Botany			
1	Digital Balance	Capacity-0.001g to 100g, Digital Display	02
2	LED Compound Microscope	Student Compound Microscope with LED light source	10
3	Centrifuge (High Speed) with all accessories	Speed: up to 1500rpm, Changeable Rotors for 50ml, 15ml and 2ml , temp range: -4°C to 37°C	01
4	Electrophoresis Units	Power pack, Horizontal unit, Vertical Unit	01
5	Lyophilier (Freeze drier) with all accessories	2lt capacity with holder and flask	01
6	pH meter with electrode	Standard type	01
7	UV Trans illuminator	Standard type	01
8	Spectrophotometer	UV-Vis: wave length range 180-1100 nm, monochromatic, with computer attachment and software for analysis	01
9	Thermo cycler for PCR	96 well, Block : Aluminium, special alloy, 0.2 mL tubes, 96 well micro plates or 8 well strips, User friendly	01
10	Laboratory Refrigerator	Standard type	01

Chemistry			
1	Hot Air Oven	Size: 18" x18" x 18"; Double wal chamber; Temperature range 5-200^{O}C. Accuracy: +1/+ 2^{O}C; Copper capillary thermostat, Digital display	01
2	U.V Lamp (Wave length 200-400 nm)	Standard type for UG/PG Practical	01
3	Vacuum Filtration Unit	Standard type for UG/PG Practical	01
4	Spectrophotometer	Double beam, wave length: 200-1000nm; optical system; spectral band width: 2nm; wave length accuracy: ±0.5nm, LED display	01
5	Laboratory Refrigerator	Standard type for UG/PG Practical	01
6	Reflux Condenser	Capacity: 500ml Flask size: 2000ml	04
7	Weighing Machine Digital	0 - 220mg capacity	02
8	Pipette Controller (25 ml Pipetting Capacity)	Standard type for UG/PG Practical	02
9	Water Bath (Temperature Controller)	Standard type for UG/PG Practical	01
10	Water Condenser Unit	Standard type for UG/PG Practical	01
11	pH Meter (Digital)	Standard type for UG/PG Practical	01
12	Conductivity Meter	Digital, 0-200ms range	02
13	Potentiometer (Digital)	Digital, 0 – ±1.999mv	01
14	Colorimeter (Digital)	400-700nm wave length, 0-100% T, 0-1.99A	02
15	Melting Pont Apparatus	2- 350 ^{o}C range	01
16	Polari Meter (Manual/Digital)	Digital 254-880 nm wave length, +90 angular range, 1^{o} accuracy	02
17	UV cabinet	Size: 15" x 12" x 10" Mild steel, powder coated, Quartz glass tube, Light source: A-Short wave-254nm B-Long wave-365nm C-Visible light	01
18	Hot plate magnetic stirrer	Voltage-220v, power-50-60Hz, speed-50-1500rpm	02
19	Thermostat temperature controller	Digital, 20-200^{o}C range	01

Physics			
1	Complete Hall effect (Total experiment setup)	1.Gauss and Tesla meter	01 set
		2.Constant current and power supply	
		(Source from mili ampere to ampere)	
		3.Hall probe (P-type/N- type) -> Sample	
		4.Electro magnet (500-5000 Gauss)	
		5.Hall effect setup	
		6.Hall probe stand	
2	B H curve Apparatus /Hysteresis Loop tracer (Total experiment setup)	1.B H curve apparatus using solenoid	01 set
		2.Fe rod as sample	
		3.CRO - Cathode ray oscilloscope to trace the curve	
3	Four probe setup (Total experiment setup)	1.Four probes power supply	01set
		2.Oven (up to 200 degree Celsius)	
		3.Sample: Semiconductor (Ex- Ge crystal)	
		4.Thermometer(0 to 200 degree Celsius)	
		5.Resistivity measurement Power Supply digital	
		6.Constant Current	
4	Tunnel diode characteristics apparatus	Standard type for UG practical	01
5	Plank's constant using LED's setup (Total experiment setup)	1. Self-contained setup requires no other accessories.	01 Set 02 set
		2.Super bright leds	
		3. LCD of current and cottage measurement.	
		4.Variable DC Supply (0-3 volts)	
6	Carry foster bridge setup (Total experiment setup)	1.carry foster bridge & this setup	01 set
		2.Frequently generator	
7	Anderson bridge within built oscillator & speaker (Total experiment setup)	(We require experiment setup to perform the experiment ,whose aim- to determine self-inductance of a coil by anderson bridge)	01 set
8	De-Sauty bridge with headphone & Oscillator (Total experiment setup)	1.De-Sauty bridge setup	01 set
		2.Oscillator/Frequency generator	
		3.Head phone/ Digital detector	
		(this set up require to perform the experiment ,whose aim- to compare Capacitance using De-Sauty bridge]	
9	Integrator & Differentiator op-amp (741IC)	1.Op-Amp integrator & Differentiator	01 set

	(Total experiment setup)	2.CRO	
		3.Function Generator	
10	Op-Amp trainer Board (Total experiment setup)	using this we want to perform op-amp as adder /Substractor for this we need	01 set
		1.Op-Amp trainer Board	
		Description : Board with +12 ,-12 ,resistance resistance from 1k to 100 ohm	
		2.Multimeter-	
11	OP-Amp Amplifier as inverting Non-inverting	Standard type for UG practical	01
12	summing and difference amplifier	Standard type for UG practical	
13	Transistor Characteristic apparatus with	Standard type for UG practical	(02) 01 set
14	regulated power supply	Standard type for UG practical	
15	Bread board	Standard type for UG practical	(40) 30
16	(CA-2A) Transistor (NPN)	Standard type for UG practical	50
17	Battery of 6v or 9v	Standard type for UG practical	(40) 30
18	LED	Standard type for UG practical	200
19	Register(1k,10K,100 ohm)	Standard type for UG practical	03 set
20	NAND gate(IC 7400)	Standard type for UG practical	20
21	Connecting Wire(Manganin)	Standard type for UG practical	30 mtr
22	Galvano meter -	Standard type for UG practical	03
23	Meter bridge	Standard type for UG practical	(02) 01
24	Volt meter	Standard type for UG practical	03
25	Ammeter	Standard type for UG practical	03
26	PN-Junction apparatus	Standard type for UG practical	02
27	Optical Bench	Standard type for UG practical	03
28	Traveling Microscope	Standard type for UG practical	03
29	Resistance Box	Standard type for UG practical	03
30	Battery Eliminator	Standard type for UG practical	04
31	Multimeter	Standard type for UG practical	(05) 03
32	Concave Mirror (focal length 15cm)	Standard type for UG practical	05
33	Convex Lens (focal length 15cm)	Standard type for UG practical	05
34	Prism	Standard type for UG practical	05
35	XOR Gate (7486IC)	Standard type for UG practical	30
36	Full Adder (IC 4008)	Standard type for UG practical	30
37	CRO-Cathode Ray Oscilloscope	Standard type for UG practical	(03) 02
38	Frequency Generator	Standard type for UG practical	(03) 02

Zoology			
1	Semi Auto Chemical Analyser	Erbacam-5x, 150 Open user defined test programme, 9 Assay Mode, Mono and Bichromatic Measurement, Photomatric Range from 0-3.0 OD, Photomatric Resolution up to 0.0001, Automatic Zero Setting, Static Photometer 340-630 NM, Wave length 340,405,505,546 NM, Result Storage 1000 test, Temperature control at 25^0, 30^0 & 37^0C, Repeat measurement by Read key, Inbuilt thermal printer, Direct printer connectivity through USB port	01
2	BOD (Biological Oxygen Demand)	Volume 68 lts, Capacity 2.4 Cu. ft, External Chamber-MS/SS 304/SS316, Internal Chamber-Stainless Steel 304 (Optional SS316), Temperature Range 2^0C to 60^0C, Temperature uniformity = +/- 0.5^0C at 20^0C, Black Lit LED, Door-Solid Insulated Door with (Glass and Without Glass) W/Lock, Refrigant-R134/CFC3, Power 220 Volt	01
3	Touch Screen Micro Processor (PH/Temperature/MV Meter)	LT 5001 Table Top, PH Range 2.0 to 20.0, Resolution-0.1, 0.01, 0.001, PH-0.01, 0.01 MV, Display type-5 inch touch screen with high resolution and sensitivity password protected data login facility, data storage facility-1000 sample	01
4	Digital Haemoglobinometer	Measuring Range – 0-30G/dl, Display 3 digit7 segment LED, Keypad Soft touch membrane type, Zero setting Automatic, Sample Volume 1.0 ml	02
5	Sahil's Haemoglobinometer	Standard type for UG practical	03
6	Haemocytometer	Standard type for UG practical	03
7	Stage Microscope (With oil emersion)	Standard type for UG practical	02
8	Laboratory Refrigerator	Standard type	01

*Quantity mentioned above can be increased or decreased on the basis of requirement

*Supplier/Manufacturers should attach leaflets of each equipment.

SCHEDULE-II: LIST OF OTHER ITEMS

Sl. No.	Particulars	Standard Specification	Quantity
1	Slotted angle rack with adjustable shelves	Material: GI, Size: 5.6', 4 shelves	06
2	Students reading chair	Stainless steel frame with MDF board seat and back without arm	150
3	Wall mount Cabinet	Size: 3' x 4.5' x 1.5' (H x W x D) Divided in to 3 chamber and each chamber with 2 shelves, each chamber has its own locking system, Made up of Stainless steel	18
4	Stool	Adjustable height/ 2.5' height. Round ring for leg rest, made up of stainless steel	160
5	LCD Projector	XGA Resolution, Lamp Life minimum 12000 Hrs (Eco Mode) Minimum 3300 Lumens in Colour Brightness & White Brightness Connector Type: VGA, USB, HDMI, Digital Zoom 1.35 X Maximum Display resolution and screen resolution Warranty: 02 Years (Onsite) Ceiling Mount Kit, Cable (10mts At least)	05
6	Non Magnetic White Board	Board Size : 6 x 4 ft, Frame Material Anodized Aluminium Channel, Resin coated steel surface, Scratch proof & water proof, Warranty: 02 Years (Onsite)	05

*Quantity mentioned above can be increased or decreased on the basis of requirement