Department of Zoology

Sl No.	Items	Make	Code	Quantity
1	Electrophoresis Power Supply Unit	Tarsons	7090	1
2	Mini Dual Vertical Electrophoresis Unit	Tarsons	7080	1
3	Dancing Shaker	Tarsons	3040	1
4	Spinwin MC 01 Micro Centrifuge	Tarsons	1020	1
5	Micropipette (1-10 ul)	Tarsons	030010	1 pack
6	Micropipette (20-200 ul)	Tarsons	030020	1 pack
7	Micropipette (100-1000 ul)	Tarsons	030050	1 pack
8	Centrifuge for Test tube			1 nos
9	Compound microscope			5 nos
10	UPS			3 nos
11	Microtome Blade			1 nos
12	Water testing kit			1 kit
13	Tester cum Screw driver			1 set
14	Pen drive		16GB	4 nos
15	Analytical balance		.001 gm-200 gm	1

Education Department

Equipments/Materials	Nos.
1. Tachistoscope	5
2. Snoddy Mirror Drawing –	5
3. Colour Preference Box	5
4. Maze Punch Board(electrical)	10
5. Memory Drum (Automatic)	2
6. Stopwatch	10
7. Koh's Block Design	5
8. Thematic Apperception Test	2
9. Wooden Screen	10
10. Printer	1
11. Educational and Psychological Chart	10
12. LCD Projector	1
13. Division of Attention Board	2
14. Binet Simon Scale	2
15. Normal Probability Curve Demonstration Apparatus with manual	2
16. Photograph of eminent educationist (foreign and Indian)	5
17. Handbook of Psychological Experiments and Testing	2

Department of Botany

List of instruments

Sl.No.	Name of Instrument	Quantity
1	Microscope with Imaging Camera	1
2	Hot air Oven(Chamber Size 24”x24”x24”,Stainless steel Chamber,Capacity—224lt.	1
3	Water Bath(12 holes) 30cmx25cmx12cm size	1
4	Spectrophotometer	1
5	Multichannel Micropipette(12 channel)	1
6	Mufflefurnace	1
7	Analytical Balance	1
8	Olympus MicroscopeMD-12-VD(7Nos.x Rs.7,120)	1
9	Olympus Compound mmicroscope ST-04 (5Nos. X 3,184)	1
10	Digital Colony counter(Elite Plus)	1
11	Labtronics auto Digital P^H meter	1
12	Bench Grinder	1

Department of Chemistry, Digboi College

Equipments

Sl no.	Name of equipments	Quantity
1.	Viscometer	20
2.	Stalagmometer	20
3.	pH meter	2
4.	Conductivity Meter	2
5.	Suction Pump	1
6.	Polarimeter	1
7.	Electronic Balance (0.001 mg)	1
8.	Thermometer ($350^{o}C$)	4
9.	UV -lamp	2
10.	Magnetic Stirrer with magnetic beat	1
11.	Water distillation plant (Steel)	1
12.	Hot Plate	1
13.	Kipps's Apparatus (Plastic) 1000ml	2
14.	Thermostated Water Bath	1
15.	Centrifuze (8 X 15 ml)	1
16.	Shaker	1
17.	Flame Photometer	1
18.	Muffle Furnace	1
19.	Power Point Projector (with CPU and other aceesories)	1
20.	Rotary evaporator	1
21	Wire gauss	50
22	Burrett Stand	40
23	Filter Stand	40
24	Measuring Cylnder (10ml)	5

25	Pipette(20ml)	20
26	Beaker (100 mL)	10
27	Beaker (250 ml)	10
28	Beaker (500 ml)	10
29	Beaker (1000 ml)	10
30	Fusion Tube (small)	5pkt
31	Test Tube	24
32	Volumetric Flask (100 ml)	10
33	Funnel	30
34	Filter paper Ordinary	5
35	Chromatographic paper sheet	2
36	Dropper	10
37	Pocelin basin	30
38	Whatmann 40 filter paper	1pkt
18	Silica crucible (Large Size)	10
39	Glass Pump Adapter – 19 joint	2
40	Glass Pump Adapter – 24 joint	2
41	Roud Bottom Flask (100 ml)	10
42	Roud Bottom Flask (500 ml)	3

List of Lab equipment for the department of Electronic

Sl. No.	Name of the lab equipment	Quantity	A
1	Verification of Superposition Theorem	1	
2	Verification of Reciprocity Theorem.	1	
3	Verification of the Maximum Power Transfer Theorem	1	
4	Study of (a) Half wave rectifier and (b) Full wave rectifier (FWR).	1	
5	Study of the I-V Characteristics of UJT and design relaxation oscillator	1	
6	Study of the output and transfer I-V characteristics of common source JFET	1	
7	Study of the RC Phase Shift Oscillator	1	
8	Study the Colpitt`s oscillator	1	
9	To design an inverting amplifier using Op-amp (741,351)for dc voltage of given gain	1	
10	To design inverting amplifier using Op-amp (741,351) & study its frequency response	1	
11	To design non-inverting amplifier using Op-amp (741,351) & study frequency response	1	
12	To add two dc voltages using Op-amp in inverting and non-inverting mode	1	
13	To investigate the use of an op-amp as an Integrator	11	
14	To investigate the use of an op-amp as a Differentiator To design a circuit to simulate the solution of simultaneous equation and 1st/2ndorder differential equation	1	
15	Design a Butterworth Low Pass active Filter (1st order) & study Frequency Response	1	
16	Half Adder and Full Adder.	1	
17	Half Subtractor and Full Subtractor	1	
18	4 bit binary adder and adder-subtractor using Full adder IC	1	
19	To design a seven segment decoder.	1	
20	To design an Astable Multivibrator of given specification using IC 555 Timer	1	

	specification using IC 555 Timer	
21	To build Flip-Flop (RS, Clocked RS, D-type and JK) circuits using NAND gates	1
22	To build JK Master-slave flip-flop using Flip-Flop ICs	1
23	To build a Counter using D-type/JK Flip-Flop ICs and study timing diagram	1
24	To make a Shift Register (serial-in and serial-out) using D-type/JK Flip-Flop ICs.	1
25	To study FM - Generator and Detector	1
26	To study FM Transmitter and Receiver	1
27	To study Time Division Multiplexing (TDM)	1
28	To study AM Transmitter and Receiver	1
29	To study Pulse Amplitude Modulation (PAM)	1
30	To study Pulse Width Modulation (PWM)	1
31	To study Pulse Position Modulation (PPM)	1
32	To study ASK, PSK and FSK modulators	1
33	Study the output and transfer characteristics of MOSFET	1
34	LCR meter	1
35	Wheatstone bridge	1
36	To determine the Characteristics of resistance transducer - Strain Gauge	1
37	Measurement of Capacitance by De Sauty's bridge	1
38	Study of I-V characteristics of SCR	1
39	Study of I-V characteristics of DIAC	1
40	Study of I-V characteristics of TRIAC	1
41	Oscilloscope	2
42	Power supply	5
43	Discrete component	1
44	Multimeter	10
45	Soldering Iron	5
46	Soldering lead	500 gm
47	Personnel Computer	2
48	Projector	1

List of Laboratory equipment for Repairing and Maintenance
Appliances

Sl No.	Name of the equipment	Manufacturer	Quantity
1	Digital Storage Oscilloscope	Tektronix	2
2	Monochrome Trainer Kit		2
3	Multimeter		10
4	Discrete components		
5`	Soldering Iron		10
6	Soldering lead		500gm
7	Desoldering pump		5
8	Set top box		1
9	TV Pattern generator		1
TOTAL AMOUNT			

Department of Computer Science

List of equipments

o	Equipments	Qty
	Digital Classroom	2
2	Desktop PCs with upto date softwares with graphics card	15
3	Pendrive	2
4	Laptop PC	2
5	Printer Cum Scanner	2
6	8085 Microprocessor Kit	15
7	Air Conditioner (for computer Lab)	2
8	Projector with display screen	3
9	Taskalfa 1800 Xerox machine	1
10	LAN connected Laboratory	30

List of Instrument/Apparatus for M.Sc.(Physics) Course to be purchased

Sl. No.	Instrument/Apparatus	Qty.
1	Cathode Ray Oscilloscope (30 MHz, 50 MHz)	2
2	Darlington amplifier characteristics	2
3	BH curve by lamp and scale arrangement	1
4	Frank-Hertz experiment	1
5	Determination of Curie temperature of phase transition for ferroelectric materials	1
6	Determination of Lande g factor by ESR method	1
7	Determination of Boltzmann constant	1
8	Experimental set up to study the Hall effect in semiconductors	1
9	Determination of Stefan's constant	2
10	Integrator and differentiator circuits using IC 741 OPAMP	2
11	Astable and monostable multivibrator using timer IC 555	2
12	Study of amplitude and frequency modulation	2
13	To design a (a) voltage divider biasing circuit and (b) RC coupled amplifier for specific gain.	2
14	Determination of Susceptibility of paramagnetic salt by Quinck's method	1
15	Determination of Neel temperature of an antiferromagnetic material by Gouy's method	1
16	Study of Thermoluminescence of an F centre	1
17	Microwave test bench	1
18	8085, 8086 microprocessor trainer	4
19	Active filter circuits using 741 OPAMP (high pass, band pass, low pass etc.)	2
20	To find the ripple factors for different filters and to study the regulation characteristics of a Solid State Regulated Power Supply.	2
21	To draw the frequency response curves of an RC coupled amplifier with (a) No feed back and (b) with negative feed back, and hence compare the bandwidths.	2
22	To draw the frequency response curve of a CB configuration and also to find the input impedance of the amplifier.	2
23	To verify Thevenin's, Norton's and Superposition theorem for Passive networks.	1
24	To determine the phase shift and also to determine the time constant of an RC circuit	1
25	To study the characteristics of a UJT.	2
26	To study the response of series and parallel LCR circuits and determine the Q-factor	2
	Total	