

Department of Computer Science

Lab Materials Requirement

Sl.No.	Name	quantity
1	Windows 10 operating System	15 PC
2	Desktop PC with i3/i5 64 bits Processor	15
3	Digital mini board trainer kit (two Breadboard kit)	5
4	ICs	1

Department of Physics

Laboratory Requisition

Sl No	Name of Item to be procured	Make with Specification	Unit Price
01	Potentiometer (10 Wire)	Frame made of heavy MS pipes. Powder coated. Top: 18mm branded ply with all side white sunmica. Waterproof. Heavy brass jockey	
02	Meter Bridge/Carey Foster Bridge	Made from 18 mm thick water proof ply board with all side high grade sunmica, with Heavy Brass Jockey. MS frame. Powder coated. No risk of bending in future. Heavy contacts & terminals.	
03	DC Power supply	Model: DTSP30-X Voltage Range: 0- 30 V Current Range: 0-2A / 3A / 5A / 10A Precision Power Supply : CV/CC Type Fully protected against continuous short circuit and over load. Automatic crossover from CV to CC. Load and line regulation better than 0.05%. Ripple less than 5 mV. Digital meters are provided. Voltage & Current control by Coarse & Fine controls.	
04	Spectrometer	Heavy cast base and a pillar for collimator support, 7 inch circle, vernier constant 30''/20''	
05	Measurement of Dielectric Constant set up		
06	Frank Hertz experimental set up	FH-3001 SES Instruments Roorkee	
06	Four-probe Resistivity measurement set up	DFP-03 SES Instruments	

07	Set up for the determination of coefficient of linear expansion using Pullinger's apparatus		
08	Set up for the determination of coefficient of linear expansion using travelling microscope		
09	Thermocouple (Copper-constantan/Nickel Chromium-Constantan/Iron Constantan)		
10	Logic gate trainer kit		
11	Single Slit with micrometer arrangement		
12	Op-Amp Experiment Kit		
13	Flip-Flop Kit	DT-FF	
14	Measurement of Planck's constant using black body radiation and photo-detector-	SES Roorkee	
15	Measurement of Planck's constant using LEDs of various colours		
16	Breadboard (Good quality)		
17	TBS1000C Digital Storage Oscilloscope-Tektronix		
18	5V-1A constant power supply		
19	Single Core Wire		
20	D.C.C wire		
21	Op-amp set up		
22	Planck constant set up using black body radiation and photodetector		
23	Set up for measuring Photoelectric effect		
24	Semiconductor laser set up for determination of grating element		
25	Biquartz Polarimeter		
26	Polarimeter tubes	Length~21 cm	
27	Apparatus for verification of Malus's law		
28	Set up for DAC converter		
29	Platinum resistance thermometer		
30	Discharge Tubes (He, Hg, H ₂)		
31	Jacket for discharge tube		
32	Stand for discharge tube		

33	Electronic and Electrical Components Inductance (10mH, 20mH); Capacitance (0.1uF, 0.01 uF), Key, Resistance components, OP Amp components, Logic ICs, LED of different colour		
34	Replica Grating (100, 300, 600 lines/mm)		
35	Copper boiler (2L-2pcs; 3L-2pcs)		
36	Heating mantle with thermostatic control (Different Dia)		
37	Microammeter (0-200 uA digital)		
38	Glass Prism (Extra Dense Flint)		

The Department of Mathematics

Computer Laboratory instruments/Software requisition

Following things are required for the Mathematics Department laboratory:

Instrument Required	Remarks
Computer Desk for nine computers	Existing Desk is Damaged. Immediate replacement or Repair is required
Five new computer and CPU required	Out of nine computer one is stolen earlier and from the remaining only four is working after repair. As per the mechanic informed us remaining four could not be repaired
Eight UPS needed	Only one UPS is working as it is new , all old are damaged
Seven mouse required	Out of four working machine only two mouse working

DEPARTMENT OF ZOOLOGY

List of Instruments

Sl No.	Name of the Instrument
1	Centrifuge
2	Binocular microscope (Simple)
3	Monocular microscope (Compound)
4	pH meter
5	pH Pen (Digital)
6	Hot Air Oven
7	Refrigerator
8	Colorimeter
9	Distillation Plant
10	Table lamps for dissection
11	Hot Water Bath (6 ports)

List of Accessories and Glasswares

Sl No.	Name of the Accessories
1	Haemocytometer (Good quality)
2	Spirit Lamp
3	Handypette Pipette Aid (Capacity 10ml)
4	Sterile Petriplates (90 mm) (Individually Packed)
5	Glass Petriplates (90mm)
6	Graduated Glass Pipette (Capacity 1 ml)
7	Graduated Glass Pipette (Capacity 2 ml)
8	Graduated Glass Pipette (Capacity 5 ml)
9	Graduated Glass Pipette (Capacity 10 ml)
10	Handypette Pipette Aid (Capacity 25ml)
11	Coupling Jar

List of Chemicals

SI No.	List of Chemicals
1	Absolute Ethanol (500ml)
2	Methanol (500ml)
3	Sodium Iodide (100 gm)
4	MnCl ₂ (500 gm)
5	H ₂ SO ₄ (500 ml)
6	Sodium Thiosulfate (500 gm)
7	Potassium Iodide (100 gm)
8	NaOH (500 gm)
9	Phenolphthalein indicator (125 ml)
10	Hematoxylin solution (Harris) for microscopy(125ml)
11	Formalin (1000 ml)
12	Acetic Acid glacial (500 ml)
13	Aceto-orcin (Stain) (100 ml)
14	Aceto Carmine (Stain)
15	Glycerine 99% (500 ml)
16	Anthrone Reagent (25 gm)
17	D Glucose (500 gm)
18	Bovine Serum Albumin (5 g)
19	Folin Cciocalteu Reagent (100 ml)
20	Na ₂ CO ₃ (500 gm)
21	Xylene pure, 99% (500 ml)
22	CuSO ₄ (500 gm)
23	HgCl ₂ (100 gm)
24	Sodium Sulfate (500 gm)
25	Ninhydrin Reagent (25 gm)
26	Sodium Citrate (500 gm)
27	Benedict Reagent (500 ml)
28	N – Butanol (1L)
29	Gram Staining Kit
30	Eosin (25g)
31	ABO Blood Group Kit
32	Chloroform (500 ml)
33	Whatman Paper (No 1 & No 3)
34	DPX (500 ml)
35	Fructose (500 gm)
36	Sucrose (500 gm)
37	Acetone (500 ml)

38	Petroleum Ether 60-80 (500 ml)
39	Benzene Dried (1000 ml)
40	Cotton

Department of Geography
List of the required materials

SL. NO.	Name of the Instrument/Object	Quantity
1.	Rain Gauge	1 piece
2.	Aerial Photographs (Mountain, Plateau, Urban Area, Coastal Area)	4 pairs
3.	Clinometer (for measuring dip and strike of rock beds)	3 pieces
4.	Slide Caliper	3 pieces
5.	Theodolite Survey Instrument Set	2 Sets
6.	Dumpy Level Survey Instrument Set	2 Sets
7.	Fortin's Barometer	1 piece
8.	Hygrometer (ZEAL Mason's)	2 pieces

Department of Chemistry

CHEMICALS:

SL NO	NAME	QUANTITY	QUALITY
1	CCl ₄	500cc X 4	MERCK
2	Blue Litmass Paper	6 box	MERCK
3	Zinc Acetate	500cc X 1	MERCK
4	NiCl ₂ .6H ₂ O	250gm X 2 / 500gm X 1	MERCK
5	Conc H ₂ SO ₄	500cc X 20 Bottle	MERCK
6	Conc. HCl	500cc X 20 Bottle	MERCK
7	Acetone	500cc X 1 bottle	MERCK
8	Liquor Ammonia	500cc X 20 Bottle	MERCK
9	Ethanol	500cc X 10 Bottle	MERCK
10	Methanol	500cc X 10 Bottle	MERCK
11	Na ₂ S ₂ O ₃	500gm X 1 bottle	MERCK
12	Ethyl acetate	500cc X 1 bottle	MERCK
13	30% H ₂ O ₂	500cc X 2 bottle	MERCK
14	Iodine	100gm X 1 bottle	MERCK
15	KI	500gm X 1 bottle	MERCK

INSTRUMENTS:

SL. NO	NAME	QUANTITY
1	DIGITAL BALANCE	2
2	DIGITAL PH METER WITH ELECTRODE	2

3	DIGITAL POTENTIOMETER	2
4	ELECTRIC SUCTION PUMP	2
5	ELECTRIC HOT WATER BATH OF 6 HOLES	1

GLASS APPARATUS AND EQUIPMENTS:

SL.NO	NAME	QUANTITY
1	VOLUMETRIC FLASK 10CC (BOROSIL)	20 PIECE
2	MEASURING CYLINDER 10 CC & 25 CC (BOROSIL)	10 PIECE EACH
3	BUNSEN BURNER	20 PIECE
4	PRESSURE TUBE	2 COIL
5	RUBBER TUBE	1COIL
6	TEST TUBE HOLDER	20 PIECE
7	LONG GLASS DROPPER	20 PIECE
8	WIRE GAUZE WITH ASBESTOS	24 PIECE
9	SPATULA	20 PIECE

DEPARTMENT OF PSYCHOLOGY

<u>NAME</u>	<u>NUMBER</u>
COMPUTER/LAPTOP	1

Malin's Intelligence scale for Indian children (MISIC)	1
Suman's Response Scope	1
Kymograph Machine with Stylus (Latest version)	1
Screen	1
Chine Rest	1
Rubin's Vase (Human Profile flower vase)	1

DEPARTMENT OF BOTANY

Requirements of the department:

Sl. No.	Name of the Instruments to be procured	Quantity	Company
1	Occular meter	6	NA
2	Stage meter	6	NA
3	Camera lucida	6	NA
4	Autoclave (small) 25lt	1	-
5	Laminar air flow (table top)	1	-
6	Balance (1 Mg Scale)	1	Systronics/

			Tarson
7	Refrigerator double door (224 lt)	1	LG/Whirlpool
8	Shaker Incubator	1	REMI
9	Centrifuge	1	REMI

Sl. No.	Name of the chemicals to be procured	Quantity	Company
1	Nutrient Agar	500gmx2	SRL/MERCK/HIMEDIA
2	Nutrient Broth	500gmx2	SRL/MERCK/HIMEDIA
3	Agar Agar	500gmx2	SRL/MERCK/HIMEDIA
4	Molt Extract Broth	500gmx2	SRL/MERCK/HIMEDIA
5	Gram Iodine	25gmx1	SRL/MERCK/HIMEDIA
6	Benzene	500mlx1	SRL/MERCK/HIMEDIA
7	Glycerin	500mlx1	SRL/MERCK/HIMEDIA
8	Hydrochloric acid 1(N) (HCl)	500mlx1	SRL/MERCK/HIMEDIA
9	Sulphuric acid 1(N) (H ₂ SO ₄)	500mlx1	SRL/MERCK/HIMEDIA
10	Gelatin	100gmx1	SRL/MERCK/HIMEDIA
11	Potassium bicarbonate (KHCO ₃)	500gmx1	SRL/MERCK/HIMEDIA
12	Potassium hydroxide pellets (KOH)	500gmx1	SRL/MERCK/HIMEDIA
13	Eosin Yellow	25gmx1	SRL/MERCK/HIMEDIA
14	Potassium nitrate (KNO ₃)	500gmx1	SRL/MERCK/HIMEDIA
15	Sodium hydroxide (NaOH) pellets	500gmx1	SRL/MERCK/HIMEDIA
16	Acetic acid	500mlx1	SRL/MERCK/HIMEDIA
17	Alpha naphthol	100mlx1	SRL/MERCK/HIMEDIA
18	Biuret reagent	500mlx1	SRL/MERCK/HIMEDIA
19	Copper sulphate (CuSO ₄)	100gmx1	SRL/MERCK/HIMEDIA
20	Sodium potassium tartarate	500gmx1	SRL/MERCK/HIMEDIA
21	Sodium carbonate (Na ₂ CO ₃)	500gmx1	SRL/MERCK/HIMEDIA

22	Ninhydrine Reagent	25gmx1	SRL/MERCK/HIMEDIA
23	Sudan III Reagent	200mlx1	SRL/MERCK/HIMEDIA
24	Anthrone	100gmx1	SRL/MERCK/HIMEDIA
25	Benedict's reagent	500mlx1	SRL/MERCK/HIMEDIA
26	Seliwanoff reagent	500mlx1	SRL/MERCK/HIMEDIA

DURGAPUR WOMEN'S COLLEGE

DEPARTMENT OF BOTANY

Requirements of the department:

Sl. No.	Name of the chemicals to be procured	Quantity	Company
27	Manganese sulphate ($MnSO_4$)	500gmx1	SRL/MERCK/HIMEDIA
28	Sodium Thiosulphate ($Na_2S_2O_3 \cdot 5H_2O$)	500gmx1	SRL/MERCK/HIMEDIA
29	Salicylic acid	500gmx1	SRL/MERCK/HIMEDIA
30	Potassium iodide (KI)	100gmx1	SRL/MERCK/HIMEDIA
31	Alkali Iodide Azide Reagent	100gmx1	SRL/MERCK/HIMEDIA
32	Soluble starch	500gmx1	SRL/MERCK/HIMEDIA
33	Alcohol	500mlx4	SRL/MERCK/HIMEDIA
34	Acetone	500mlx2	SRL/MERCK/HIMEDIA
37	2,3,5,- triphenyl tetrazolium chloride	100mlx1	SRL/MERCK/HIMEDIA
38	Distilled water (normal)	5lt	NA

Sl. No.	Name of the glasswares to be procured	Quantity	Company
1	Conical flask 1000ml	2	Borosil
2	Conical flask 500ml	6	Borosil
3	Conical flask 50ml	6	Borosil
4	Beaker 500ml	6	Borosil
5	Bacterial loop	6	NA
6	Spreader	6	NA
7	Plastic Petridish 60mm disposable (Tarson, 960020)	20	Tarson
8	Slides and cover slips	5 Box	Blue Star
9	Dropper bottle (glass bottle for use to keep stain)	6	NA
10	Screw cap bottle 500ml	6	Borosil
11	Screw cap bottle 100ml	6	Borosil
12	Screw cap bottle 50ml	6	Borosil
13	Wash bottle 500ml	5	Borosil
14	Measuring cylinder 50ml	1	Borosil
15	Pipettes 1ml (Borosil, 7060P11)	10	Borosil

DURGAPUR WOMEN'S COLLEGE

DEPARTMENT OF BOTANY

16	Funnel 100mm diameter	6	Borosil
17	Funnel 75mm diameter	6	Borosil
18	Test tubes 20ml	50	Borosil
19	Flat bottom flask 500ml	6	Borosil
20	Cork for Flat bottom flask 500ml	6	NA
21	Stand for Flat bottom flask 500ml	3	Borosil
22	Cotton absorbent	5	NA
23	Blotting paper	50 sheets	NA
24	Whatmann No. 1 Filter paper	1	NA
25	Filter paper (Normal)	20 boxes	NA
26	Specific gravity bottle (50ml)	6	Borosil
27	Pynometer	6	Borosil
28	Burette and burette stand	6	Borosil

Sl. No.	Name of the glasswares/others to be procured	Quantity	Company
29	Mortar and pestle (medium size)	5	NA
30	Large forcep	2	NA
31	Medium forcep	2	NA
32	Large scissor	1	NA
33	Medium scissor	1	NA
34	Centrifuge tube (15ml)	30	Tarson

DURGAPUR WOMEN'S COLLEGE

DEPARTMENT OF BOTANY

Requirements of the department:

Sl. No.	Name of the items to be procured	Quantity	Company
1	<i>Zygnema</i> (Workout material)	2 vials	[Biosco/Biocraft]
2	<i>Oedogonium nannandrous</i> (Workout material)	2 vials	[Biosco/Biocraft]
3	<i>Oedogonium macrandrous</i> (Workout material)	2 vials	[Biosco/Biocraft]
4	<i>Gleotrichia</i> (Workout material)	2 vials	[Biosco/Biocraft]
5	<i>Chara</i> (Workout material)	2 vials	[Biosco/Biocraft]
6	<i>Ascobolus</i> (Workout material)	2 vials	[Biosco/Biocraft]
7	<i>Agaricus</i> (Workout material)	2 vials	[Biosco/Biocraft]
8	<i>Rhizopus</i> (Workout material)	2 vials	[Biosco/Biocraft]
9	White rust of crucifer (Workout material)	2 vials	[Biosco/Biocraft]
10	Rust of wheat (Workout material)	2 vials	[Biosco/Biocraft]
11	<i>Marchantia</i> (Workout material)	2 vials	[Biosco/Biocraft]
12	<i>Anthoceros</i> (Workout material)	2 vials	[Biosco/Biocraft]
13	<i>Funaria</i> (Workout material)	2 vials	[Biosco/Biocraft]
14	<i>Lycopodium</i> (Workout material)	2 vials	[Biosco/Biocraft]
15	<i>Equisetum</i> (Workout material)	2 vials	[Biosco/Biocraft]
16	<i>Marselia</i> (sporocarp) (Workout material)	2 vials	[Biosco/Biocraft]
17	<i>Pinus</i> needle (Workout material)	2 vials	[Biosco/Biocraft]
18	<i>Pinus</i> rachis (Workout material)	2 vials	[Biosco/Biocraft]
19	<i>Pinus</i> male cone (Workout material)	2 vials	[Biosco/Biocraft]
20	<i>Cycas</i> leaflet (Workout material)	2 vials	[Biosco/Biocraft]
21	<i>Cycas</i> rachis (Workout material)	2 vials	[Biosco/Biocraft]
22	<i>Cycas</i> microsporophyll (Workout material)	2 vials	[Biosco/Biocraft]
23	<i>Canna</i> root (Workout material)	2 vials	[Biosco/Biocraft]
24	Maize stem (Workout material)	2 vials	[Biosco/Biocraft]
25	<i>Casuarina</i> (Workout material)	2 vials	[Biosco/Biocraft]
26	Stem of <i>Bignonia</i> (Workout material)	2 vials	[Biosco/Biocraft]
27	Stem of <i>Dracaena</i> (Workout material)	2 vials	[Biosco/Biocraft]

28	<i>Stem of Boerhaavia</i> (Workout material)	2 vials	[Biosco/Biocraft]
29	<i>Stem of Achyranthes</i> (Workout material)	2 vials	[Biosco/Biocraft]
30	<i>Spirogyra</i> (Workout material)	2 vials	[Biosco/Biocraft]
31	<i>Mucor</i> (Workout material)	2 vials	[Biosco/Biocraft]
32	Permanent slides of <i>Lepidodendron</i> (stem in T. S.)	1	[Biosco/Biocraft]
33	Permanent slides of <i>Calamites</i> (stem in T. S.)	1	[Biosco/Biocraft]
34	Specimen of <i>Bucklandia</i> (stem)	1	[Biosco/Biocraft]
35	Permanent slides of <i>Spirogyra</i>	1	[Biosco/Biocraft]
36	Permanent slides of <i>Riccia</i> (T.S. of thallus)	1	[Biosco/Biocraft]
37	Permanent slides of <i>Pogonatum</i> (L.S. of capsule)	1	[Biosco/Biocraft]

MISCELLANEOUS

1. Reference and text books worth rupees 2 lakhs.

2. onic CPB701HDH 3700 ANSI Lumens/ 1080p Home and Business Projector/Input Lag: 16ms/Powerful Sound 10W/Dual HDMI

3. Inlight Wall Pull Down Spring Action Projector Screen, Size: - 106 Inches Diagonal in 16:9 HDTV Format, 8 Ft. x 4.5 Ft, in Imported High Gain Fabric, No Autolock/Instalock Mechanism

Ahuja fixed sound boxes and wireless microphone for auditorium and audio visual room and portable podiums and wireless microphone with sound box

