

Sanatana Dharma College Alappuzha

Physics Department (PD-2025-26)

No	Item	Specification	Amount	GST	No	Total
1	Zener diode characterization set up	Input: 0-30V DC (variable), O/p measurement - Voltmeter 0-10V, Ammeter 0-100mA (analog meters)			2	
2	Lees Disc Apparatus (Complete setup)	Brass slab 11cm dia and 13.5cm thickness, Steam chamber, 3 sets of bad conductors, heating source, stopclock, thermometers etc.			1	
3	NEWTON'S LAW OF COOLING	<p>a Joule's Calorimeter Copper Calorimeter fitted in teakwood polished case with bakelite top having holes for thermometer & stirrer, two terminals connected to a coil of wire.</p> <p>b THERMOMETER : 110°C x ½.</p> <p>c) Battery Eliminator 03 0- 5V D.C. at 3A, continuously variable regulated and short circuit protected</p> <p>04 DIGITAL STOP CLOCK : With START/STOP operation by means of toggle switch & RESET by a push button switch. resolution of 0.1 s and accuracy of ±0.01% (Quartz controlled). Display Seven Segment Displays and working voltage of the unit is 230V± 10% 50Hz.</p>			1	
4	Operational Amplifier Trainer	3 DC regulated power supplies rated at 0- 1.5V/150mA (2 units), ±15V DC, and two dual-range moving coil meters.				



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5	Conversion of Galvanometer to Ammeter	DC Regulated Power Supply 0-5VDC/150mA, Analog meters (One milliammeter & One Galvanometer), Different set of Shunts resistors, patch codes etc.			1	
6	Conversion of Galvanometer to Voltmeter	DC Regulated Power Supply 0-5VDC/150mA, Voltmeter 0-5V, Galvanometer 30-0-30 , Three set of resistors connected			1	
7	Temperature Coefficient of Resistance for Platinum Using a Platinum Resistance Thermometer Callender and Griffiths Bridge	Callender and Griffith's Bridge. Galvanometer 30-0-30 Regulated power supply 0 - 5V D.C. at 1A Platinum Resistance Thermometer: Heating Arrangement(optional)			1	
8	Digital weighing balance (1gm-1Kg)	Capacity -1Kg, Accuracy - 10mg, LED Display, Battery adaptor etc.			1	
9	Bar magnet (pair)	Material: Alnico , Size 2 inch, Magnetic Strength 10^{-4} Tesla			6	
10	Digital stop clock	Accuracy -0.01S, Display-LED, Power 1.5V battery Winner Loudstar W-103M or equivalent			4	
11	Single Strand Wire	For PCB - 26AWG (Gauge) - three colours			1Coil each	
12	Battery for Multimeter	Std.type (AAA battery commonly used for multimeters)			20	
13	Refracting Prism	Made with crown, Rrefractive index 1.5 size 38mmx38mm			2	
14	Meter scale	Made with teakwood			6	

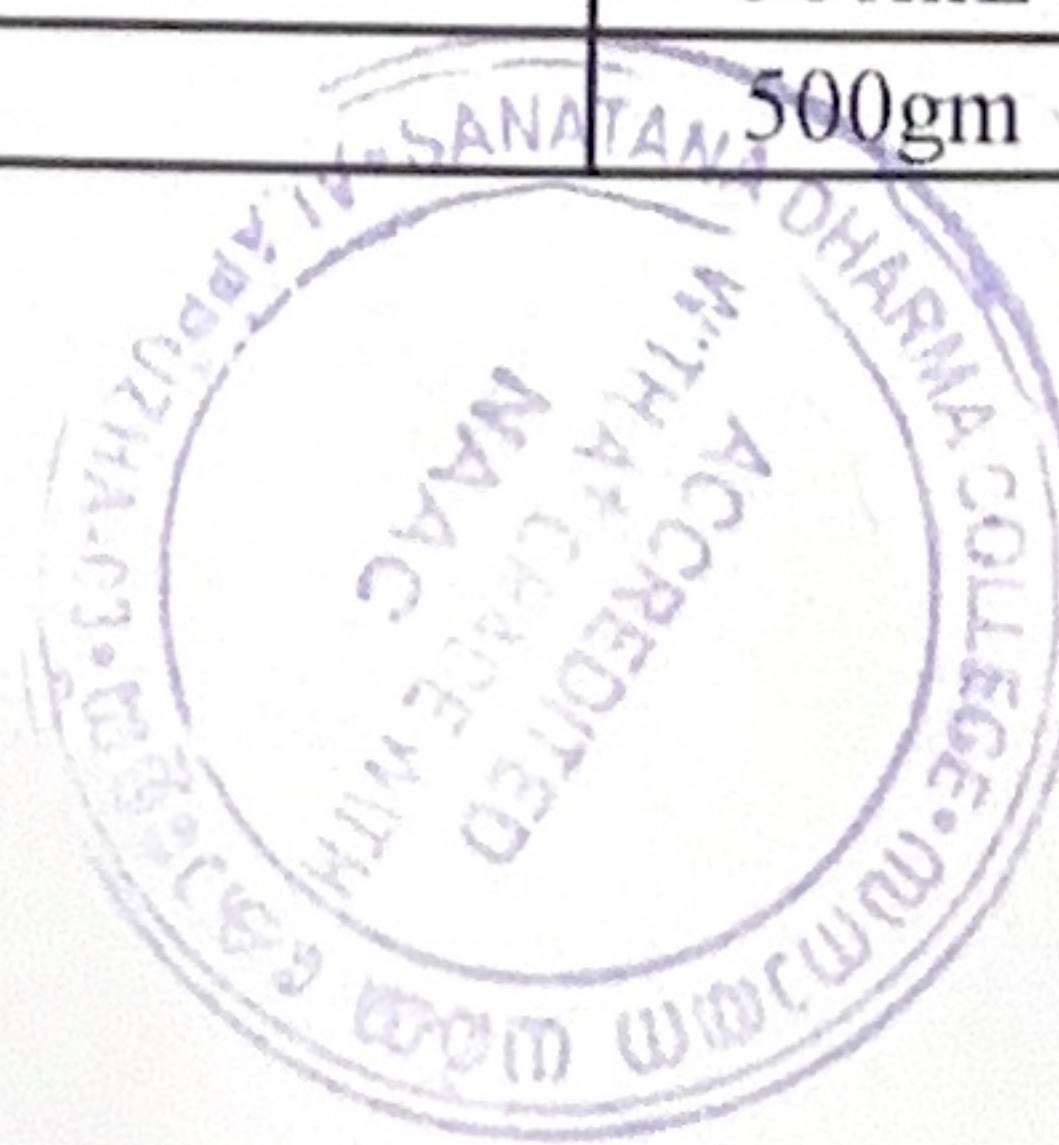


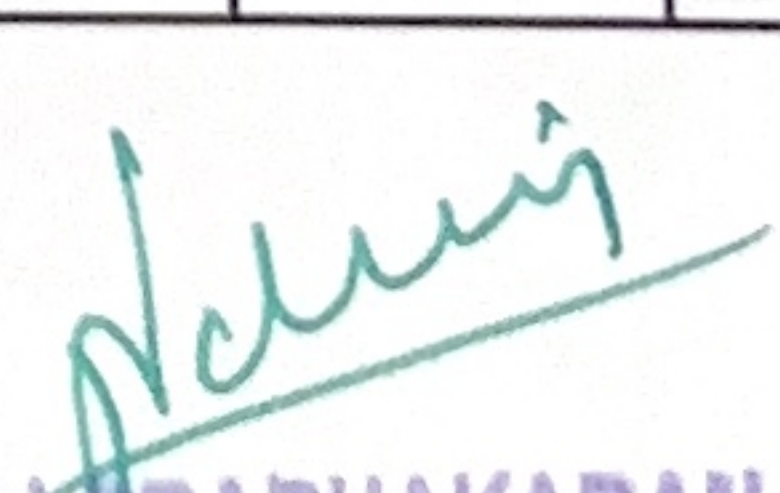
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Department of Chemistry

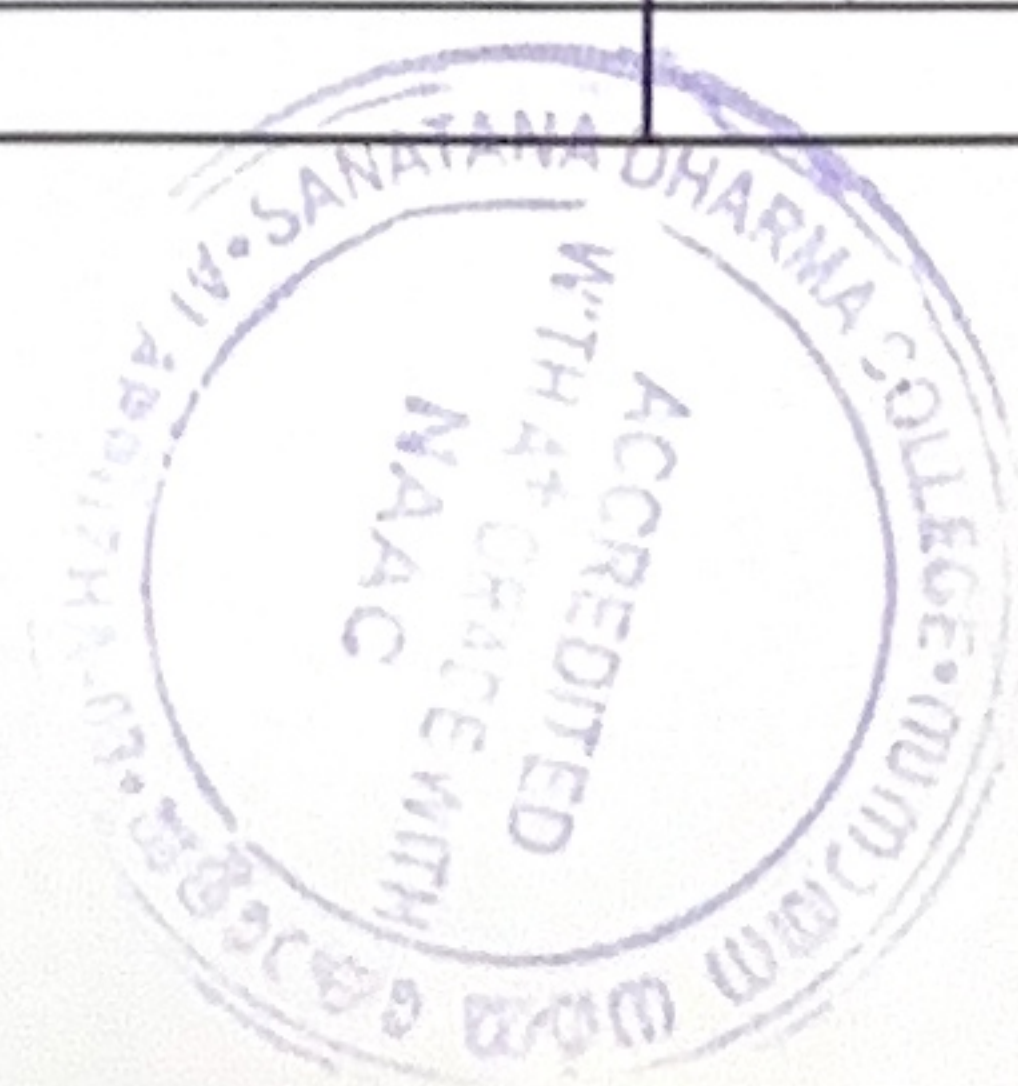
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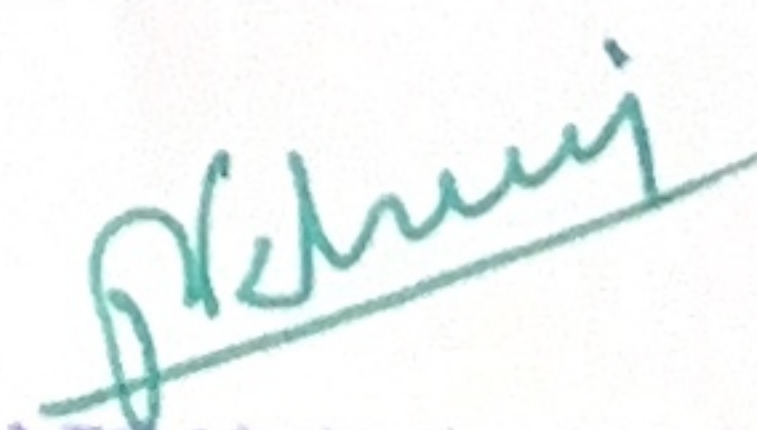
SI No	ITEM NAME	QUANTITY	Amount	GST	Nos	Total
1	ACTIVATED CHARCOAL	500gm			1	
2	ACETONE	500mL			1	
3	ACETONE	25L			1	
4	AMMONIA	25L			1	
5	AMMONIA	25L			1	
6	AMMONIUM FERRIC SULPHATE	500gm			1	
7	AMMONIUM PHOSPHATE	500gm			1	
8	ALUMINIUM ACETATE	500gm			1	
9	ALUMINIUM CARBONATE	500gm			1	
10	BARIUM ACETATE	500gm			1	
11	CALCIUM CHLORIDE	500gm			1	
12	CALCIUM FLOURIDE	500gm			1	
13	CALCIUM NITRATE	500gm			1	
14	DI AMMONIUM HYDROGEN PHOSPHATE	500gm			1	
15	ETHER	500mL			1	
16	ETHER	25L			1	
17	FERRIC CHLORIDE	500gm			1	
18	FERROIN INDICATOR	100mL			1	
19	19.FERROUS AMMONIUM SULPHATE (MERCK)	500gm			1	
20	FERROUS SULPHATE (MERCK)	500gm			1	
21	GLACIAL ACETIC ACID	500gm			1	
22	GLUCOSE	500mL			1	
23	HEXANE	500mL			1	
24	HYDROGEN PEROXIDE	500mL			1	
25	IODINE BALLS	250gm			1	
26	LEAD ACETATE	500gm			1	
27	LEAD NITRATE	500gm			1	
28	MAGNESIUM CARBONATE	500gm			1	
29	MAGNESIUM CHLORIDE	500gm			1	
30	MAGNESIUM NITRATE	500gm			1	
31	MAGNESIUM OXALATE	500gm			1	
32	MAGNESON REAGENT	125mL			1	
33	NITRIC ACID	2.5L			1	
34	NITRO BENZENE	500mL			1	
35	ORTHO TOLUDINE	500mL			1	
36	OXALIC ACID	500gm			1	
37	PROPANOL	500mL			1	
38	PHENOL	500mL			1	
39	POTASSIUM CHLORIDE	500gm			1	




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40	POTASSIUM CHROMATE	500gm			1	
41	POTASSIUM HYDROXIDE	500gm			1	
42	POTASSIUM IODIDE	500gm			1	
43	SILICA GEL WITH BINDER FOR TLC	500gm			1	
44	SILVER NITRATE	100gm			1	
45	SODIUM BICARBONATE	500gm			1	
46	SODIUM HYDROXIDE PELLET	500gm			1	
47	SODIUM SULPHATE	500gm			1	
48	STRONTIUM CHLORIDE	500gm			1	
49	SULPHURIC ACID	25L			1	
50	TOLUENE	500mL			1	
51	WHATMAN NO.40 FILTER PAPER				1pkt	
52	WHATMAN NO.41 FILTER PAPER-1				1pkt	
53	ZINC ACETATE	500gm			1	
54	ZINC NITRATE	500gm			1	
55	FILTER PAPER SHEETS	100Nos				
56	WHATMAN NO.40 FILTER SHEETS	50Nos				
LIST OF GLASSWARES						
1	STANDARD FLASK	100mL			1	
2	STANDARD FLASK	500mL			1	
3	STANDARD FLASK	1Litt.			1	
4	WEIGHING BOTTLE				1	
5	STOPPERED BOTTLE				1	
6	BURETTE				1	
7	MEASURING JAR	25L			1	
8	MEASURING JAR	50L			1	
9	MEASURING JAR	100L			1	
10	RUBBER BULB FOR PIPETTING				1pkt	
11	TEST TUBE BOROSIL	7mL			1	
12	TEST TUBE BOROSIL	15mL			1	
13	BEAKER	250mL			1	
14	BEAKER	100mL			1	
15	WIRE GAUZE				1	
16	NEEDLE MAGNETIC BEAD				1	
17	SENSITIVE THERMOMETER				1	
18	FUNNEL	SMALL			1	
19	FUNNEL	BIG			1	
20	CONICAL FLASK	250mL				
21	RB FLASK	500mL				
22	DROPPER (BIG)				1Unit	
23	DROPPER				1Unit	
24	BEAKER (Plastic)				1Unit	




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25	BOILING TUBE				1Unit	
26	CALOMEL ELECTRODE for Potentiometer				1Unit	
27	Platinum electrode for Potentiometer				1Unit	

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BOTANY DEPARTMENT- LIST OF CHEMICALS REQUIRED						
PD 2025-26						
Sl No	ITEM NAME	QUANTITY	Amount	GST	Nos	Total
1	ANTIMONY POTASSIUM TARTARATE	250gm			1	
2	ANTHRONE (FOR SYNTHESIS)	10gm			1	
3	AMINO ACID	KIT			1	
4	AGAR AGAR	500gm			5	
5	ACTIVATED CHARCOAL	500gm			1	
6	ASCORBIC ACID	100gm			1	
7	BUTANOL	2.5L			1	
8	COOMASSIE BLUE	10gm			1	
9	CALCIUM CHLORIDE FUSED	500gm			2	
10	COPPER SULPHATE	500gm			2	
11	CITRIC ACID	500gm			1	
12	CALCIUM CHLORIDE	500gm			1	
13	DPX MOUNTANT	500ml			5	
14	FOLIN & CIOCALHEUS PHENOL	125ml			1	
15	FOLIC ACID	5gm			1	
16	GELATIN POWDER	250gm			2	
		500gm				
17	CYCLINE PURIFIED	500gm			1	
		500gm				
18	GRAM'S CRYSTAL VIOLET	125gm			1	
19	GRAM'S COLOR KIT	KIT			1	
20	HYDROQUINONE	100gm			1	
21	IODINE CRYSTALS	100gm			3	
22	IODINE RESUBLIMED	100gm			1	
23	MERCURIC CHLORIDE	250gm			1	
24	NUTRIENT AGAR	500gm			1	
25	NAPHTHTHALINE	5gm			3	
26	POTASSIUM NITRATE	250gm			2	
27	POTASSIUM IODIDE	100gm			3	
28	POTASSIUM PERMANGANATE	500gm			2	
29	POTASSIUM PHOSPHATE	500gm			1	
30	SODIUM IODIDE	100gm			21	
31	SODIUM ALGINATE	250gm			1	
32	SODIUM POTASSIUM TARTARATE	250gm			1	
33	SODIUM AZIDE	100gm			1	
34	SODIUM CITRATE SOLUTION	500ml			1	
35	SODIUM HYDROCHLORITE	500ml			1	
36	SODIUM SULPHATE DRY PURIFIED	500gm			1	
37	SILVER NITRATE	25gm			1	
38	SODIUM HYDROGEN CARBONATE	500gm			1	
39	TRICHLORO ACETIC ACID	100ml			1	



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40	TWEEN 80	2.5L			1	
41	Test tube Holder				20	
42	Paraffin for anatomical block Preparation	500 mg			2	
43	Sucrose	1 kg			2	
44	Pikobskaya Agar	250			1	
45	DROPPER				50	
GLASSWARES						
46	1- Litre SOXHLET APPARATUS(Roundbottom flask, condenser)	1 L			1	
47	Holding clamp, Hose for Soxhlet apparatus				1	
48	Quartz U-V Spectrometer Cuvette	10 ml pass light length & 4 ml solution pass length			1	

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Dept . Of Micro biology P.D.-2025-26

No	Name of Microbiological Media	Grade	Qty	Amount	GST	No.	Total	
1	Triple sugar iron agar	High quality microbiological grade medium	100g			2		
3	Simmons Citrate Agar		100g			2		
4	Urea agar base - Autoclavable		100g			2		
5	Muller Hinton Broth		100g			2		
6	Sabaroud dexose agar		100g			2		
7	Mac conkey broth (bromo cresol purple)		100g			5		
9	Nutrient agar		100g			10		
12	MRSA (Lactobacillus)		100g			2		
13	Muller Hinton Agar		100g			5		
14	Starch agar		100g			2		
15	Potato Dextrose Agar		100g			2		
16	Sabouraud Dextrose Agar with Antibiotic		100g			2		
18	Urease agar		100g			1		
19	Sabouraud Dextrose Broth		100g			1		
20	YEMA Agar media		100g			1		
21	Sodium alginate (for bead preparation)		100g			1		
Sl. No	Name of Chemical		Grade	Qty			No	
1	Acetocarmine		uld be AR grade with purity >99, and Assay ≥99.5% & oxoid grade	100 ml			2	
2	Gram staining kit			2 unit			2	
4	Kovacs reagent			100 ml			1	
5	Methyl red indicator	125 ml				1		
6	Barritts reagent A for vp test	100 ml				1		
7	Barritts reagent B for vp test	100 ml				1		
9	Alberts stain B	125 ml				1		
10	methylene blue-aqueous	125 ml				1		
11	RPR (card test) kit	2 unit				2		
12	WIDAL slide test kit	3 unit				3		
13	RA- Latex agglutnation kit	1 unit				1		
14	ASO kit-antistreptolysin o (True chemie)	2 unit				2		
15	Manganese sulphate	100 g				1		
17	Sodium thiosulphate	100 g				1		
19	Congo red dye	25 g				1		
20	Lacto Phenol Cotton Blue (LPCB) stain	100 ml				1		
22	Hydrogen peroxide	100 ml				1		
23	Bovine serum albumin	10 g				1		
24	Antibiotic disc of Penicillin	1 vial				1		
25	Antibiotic disc of Tetracyline	1vial				1		
26	Antibiotic disc of Chloramphenicol	1 vial				1		



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27	Antibiotic disc of gentamycin	All Chemicals shc	1 vial		1
28	Nigrosin Stain		50 ml		2
30	Sodium chloride		100 g		1
31	Folin- Ciocalteu reagent		1 bottle		1
33	Dettol		500 ml		2
Sl. No	Name of glassware	Grade	Qty		No
11	Whatt Man No.1 filter paper		1 Pack		1
12	Absorbent Cotton		5		5
13	Non Absorbent Cotton		15		15
14	Pippette riser- 10 ml		5		5
18	Inoculating needle		20		20
20	Petry plate Can		5		5
21	Test tube rack for boiling tube (Steel)		10		10
22	Nichrome Inoculating loop		10		10
24	Conical flask		250 ml		20
25	Conical flask		500 ml		10
26	Conical flask		100 ml		100
27	Beaker		1000 ml		5
28	Beaker		500 ml		10
29	Beaker		250		10
30	Beaker		100		15
29	petri plates		100 x 15 mm		100
32	Test tube		27 ml		50
33	Boiling tube		55 ml		50
34	Lancet		2		2 pac
35	Gloves		medium size		5 pac
37	pH paper		5 box		5 box

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