



S.G.A.GOVERNMENT DEGREE COLLEGE

(Re-accredited by NAAC with 'A' Grade, Affiliated to Andhra University)

YELLAMANCHILI - 531055, ANDHRA PRADESH



DEPARTMENT OF PHYSICS

PARTICULARS OF LABORATORY EQUIPMENT



1. Diode characteristics circuit.



2. Transistor characteristics circuit.



3. LCR Resonant Circuit.



4. Phase Shift Oscillator.



5. RC Low Pass and High Pass Filter.



6. Function Generator.



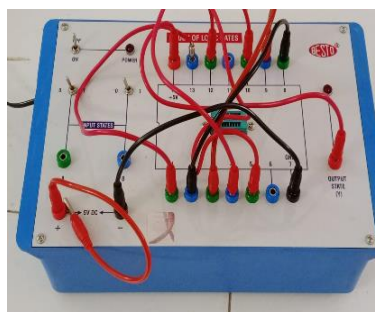
7. Cathode Ray Oscilloscope



8. Regulated Power Supply



9. e/m Thomson experimental set-up.



10. Logic gates Circuit.



11. Zener Diode Apparatus.



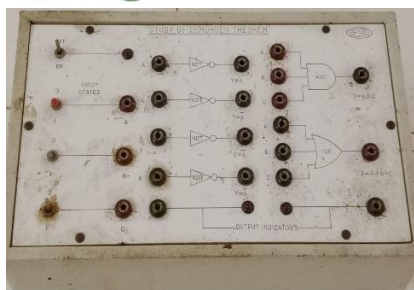
12. Plank's constant Apparatus



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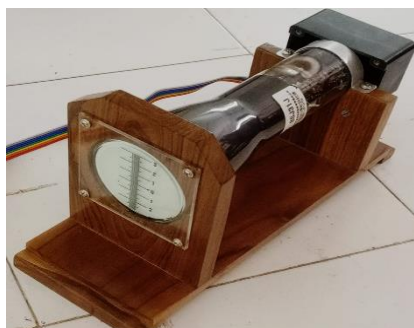
13. De-Morgan theorem kit



14. Thermistor characteristics kit



15. Magnetic compass



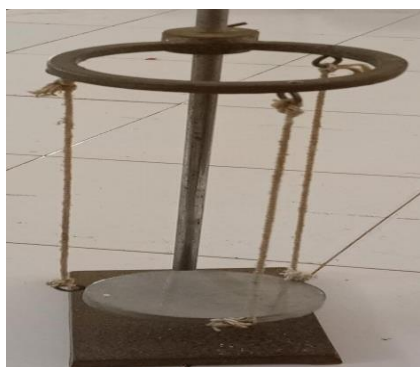
16. Cathode Ray Tube



17. CRT Power Supply



18. Diffraction Gratings



19. Lee's Disc Experimental set-up



20. Newton's Rings Set-up



21. Spectrometer



22. Polarimeter



23. Travelling Microscope



24. Dispersion Prisms



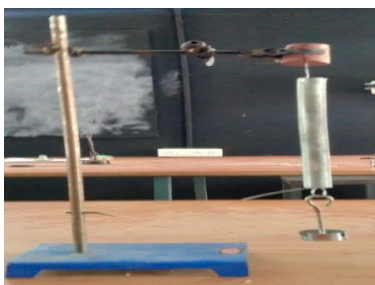
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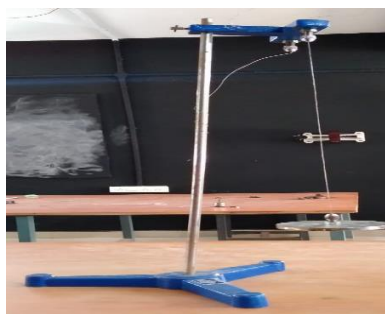
25. Bi-filar Suspension Set-up



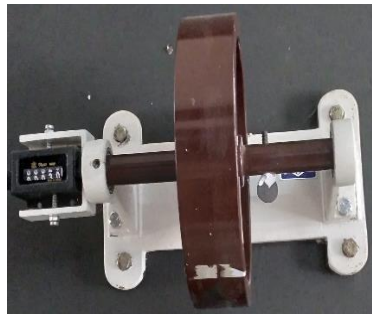
26. Spring Constant Set-up



27. Tuning Forks



28. Torsional Pendulum Set-up



29. Fly-Wheel



30. Stop Watch

MINOR RESEARCH PROJECT APPARATUS



31. Muffle Furnace



32. Hot Air Oven



33. Magnetic Stirrer



34. Ultrasonic Cleaner



35. High Quality Analytical Balance



36. Miscellaneous components



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S.G.A Govt. Degree College, Yellamanchili, Department of physics

Particulars of the Lab Equipment- State Budget

S.No	Name of the article	Total number of articles available	Remarks
1	Compound bar pendulum	1	
2	Aspiratory bottle	6	
3	Stop clocks	6	
4	Retort stands	2	
5	Meter scales	2	
6	Sono-meters	1	
7	Turning forks	15	
8	Capillary tube	1	
9	Bifilar pendulum	3	
10	Torsional pendulum	2	
11	Pendulum bobs	2	
12	Vernier calipers	2	
13	Spherometers	2	
14	Slotted weights 50 grams	4 Sets	
15	Spring balance	1	
16	Glass prisms	8	
17	Glass plates for spherometer	1	
18	Watch glasses	8	
19	Diffraction grating	5	
20	Lee's apparatus	1	
21	Newtons rings apparatus	4	
22	Sodium vapour lamp	1	
23	V- stand	1	
24	Spirit level	1	
25	Lenses	2	
26	Resistance boxes	2	
27	Logic gates kit	2	
28	Ballistic galvanometer	2	
29	CRO	1	
30	Ammeters	4	
31	Digital multi-meter	4	
32	e/m thomson experiment	1(not working)	
33	Signal (function) generators	5	
34	FET kit	1	
35	Flip flop boards	2	
36	Flywheel	6	



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37	Mercury vapour lamp	1	
38	Operational amplifier	2	
39	P-n junction diode boards	2	
40	P-n junction diode characteristics boards	2	
41	Spherometers	5	
42	Searls viscometer	1	
43	Standard resistance	5	
44	Potentiometer	3	
45	Study of reactance of RC circuit & filter circuit	1	
46	Travelling microscope	3	
47	Table galvanometer	2	
48	Voltmeter	4	
49	Zener diode	1	
50	De-morgans theorem boards	1	
51	Full adder – digital board	2	
52	Battery eliminators	5	
53	Frequency response kits (LCR)	4	
54	Transistor characteristics boards	2	
55	Themistor characteristics boards	1	
56	Potentiometers	3	
57	RC phase shift oscillator	1	
58	Hydrogen discharge tube apparatus	1	
59	Rheostats	2	
60	Planks constant apparatus	1	
61	Digital electronic balance	1	
62	Differential amplifier boards	1	
63	Transistor amplifier boards	1	
64	Electric kettle	6	
65	Zener diode characteristics board	4	
66	Meldees experiment apparatus	4	
67	Cathode ray Oscilloscope (CRO)	1	
68	Travelling microscope	1	
69	Spectrometer	1	
70	p-n junction diode kit	2	
71	Zener diode characteristics	2	
72	Transistor Charactristics	2	
73	Logic Gates	2	



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74	Plank's Constant Apparatus	2	
75	e/m Apparatus	2	

S.No	Name of the article	Total number of articles available	Remarks
1	Thermo couple	5	
2	Thermo couple	5	
3	Electric kettle	5	
4	Meldan Opp	2	
5	Biprism	2	
6	Metal slato for telescope	5	
7	Rubber corks	10	
8	Compound pendulum	4	
9	Retant stael	10	
10	Clamp with brks lead fw refent stand	10	
11	Caprillary tubes	5	
12	Pinch cocks	10	
13	Rubber hammer	6	
14	Aspirator bottle	5	
15	Stop clock	12	
16	AC fono meter	6	
17	Tunning fork sets	4	
18	Bifilar end fension	6	
19	Torsional pendulum	6	
20	EDF prisms	4	
21	Spectro meter	2	
22	Travilling microscope	2	
23	Diffraction grating	3	
24	Digital multimeter	3	
25	Telescope	6	
26	Battery eliminator	4	
27	Polanometer	2	



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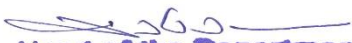
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28	Ceray feston bridge	2	
29	Cadmium cell	1	
30	Calori meter	4	
31	Digital multimeter	1	
32	Fly wheel	4	

Particulars of the Infrastructure in the Laboratory

S.NO	NAME OF THE ARTICLE	QUANTITY	REMARKS
1	Faculty Tables	3	
2	Chairs	3	
3	Work tables	4	
4	Fans	6	
5	Tube Lights	8	
6	Racks	4	
7	Green Board	1	
8	Almirah	2	
9	Notice Board	1	
10	LCD Projector	1	


Head of the Department
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Principal
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