





**SUMMARY SHEET LAB MAINTENANCE**

<b>2021-22</b>		
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## LAB MAINTENANCE FOR THE ACADEMIC YEAR 2021-22





### CHEMISTRY LAB

S.No	Date	Name of Equipment	Repair works	Received by	Signature of HOD
1.	24/1/22	Deioniser	preparing of distilled water	T. S. Swaid	
2.	9/2/22	Apparatus	cleaning	T. S. Swaid	
3.	15/2/22	potentiometer	Electrodes cleaning	T. S. Swaid	
4.	16/2/22	R.O water plant	cleaning	T. S. Swaid	

S.No	Date	Name of the Equipment	Repair works	Received by	Signature of HOD
1.	22/11/21	Conductivity meter	Electrodes cleaning	T. S. Swaid	
2.	13/12/21	Beakers, Volumetric flasks	cleaning	T. S. Swaid	
3.	29/12/21	Wash Bottles	cleaning	T. S. Swaid	
4.	29/12/21 14/1/22	R.O water plant	cleaning	T. S. Swaid	



# PHYSICS LAB

S.No.	Date	Name of the Equipment	Repair works	Received by	Signature of HOD
1.	24/1/22	Newton Ring Experiment	preparing para-conver lens		
2.	15/2/22	power supply to plug welders	Fixed plug pins	Shivida	
3.	15/05/22	Thermistor Characteristic C.R. circuit	adjusting Condenser	Shivida	



  
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 KANDANUR, 621102

# CONTROL SYSTEMS LAB

Control systems lab maintenance 681K  
2021-2022

Sr. No.	Date	Name of the equipment	Repair/maintenance	Sign	Remarks
1.	14/02/22	Time response of end codes system	prosec direct system supply 2nd not coming through ground 2nd hence replaced by new one		
2.	17/2/22	DPS boxes	critical fuses are replaced		

# ELECTRICAL CIRCUITS

Maintenance Activities In the Year 2021-22

Sr. No.	Date	Name of the Equipment	problem observed	Action Taken	Lab Incharge	HO D
1.	14/02/2022	D.C. Chompton 2 potentiometers	Graduated scale	checked & found that terminals were replaced with other	Vijay	



**DR. JAYALAKSHMI**  
Principal  
East Institute of  
Engineering & Technology  
MADRAS - 605 006



# ELECTRICAL MACHINES LAB

Electrical Machines Lab Maintenance Work

~~2020 - 2021~~

lab Technician Name: K.S. Gangaiah R.

Date	Name Equipment	Repairs / maintenance	Sign	Remarks
8/23/2020	Maintance work	to cleaning all motor and switch.		Head of the Department Electrical & Electronics Engg. JSS Institute of Engg. & Tech Annapuram - 531 002
23/9/2020	Rectifier work	to changing the wires and connect new wires and cables.		Head of the Department Electrical & Electronics Engg. JSS Institute of Engg. & Tech Annapuram - 531 002
3/10/2020	main panel	to checking panel connection and check all wiring and cables and replace for all mcb's and main switch.		Head of the Department Electrical & Electronics Engg. JSS Institute of Engg. & Tech Annapuram - 531 002
4/10/2020	meter	to repair all meter gland and panel and set terminal.		Head of the Department Electrical & Electronics Engg. JSS Institute of Engg. & Tech Annapuram - 531 002
11/12/2021	switch	to cleaning the all switch terminal and to set clean wiring connection and check.		Head of the Department Electrical & Electronics Engg. JSS Institute of Engg. & Tech Annapuram - 531 002



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# COMPUTER LAB

62	20/11/2021	38 45	Online problem Java error Java error	Rectified Rectified Rectified	
		50	SMTP problem	} Rectified	
		53	SMTP problem		
		61	Network problem		
63	20/03/2021	20, 6-4	Laptop - 10 Taken by ch. Dinak S.V.		
64	30/06/21	10, 11, 29, 31, 35 46	SMTP problem	V. Sivanish	Rectified 21/01/21
65	30/06/21	07	Keyboard problem	V. Sivanish	Rectified 21/01/21
66	7/7/21	45	Monitor problem	V. Sivanish	

Sr	Date	Sl. No	Problem description	Request Requested by	Content Rectified by with Date	Remarks
67	02/12/21 02/12/21	51 45	SMTP Problem Board problem	V. Sivanish	51 - Rectified by V. Sivanish 20/12/21	
68	4/1/22	45	Mother board problem	V. Sivanish	45 - Rectified by V. Sivanish 01/01/22	
69	11/3/22	11, 7, 8, 30, 35, 39, 49 40, 61, 5	Lan problems	Prithi	Rectified by Prithi 11/3/22	
70	15/3/22	12, 24, 10 25, 32, 43, 5	Lan problem	Prithi	Rectified by Prithi 15/3/22	
71	15/3/22	56, 61	Lan problem	Prithi	61 - Rectified by Prithi 15/3/22	
72	15/3/22	56 54	Lan problem, Keyboard problem Mouse problem SMTP problem	Prithi	Rectified by Prithi 15/3/22	
73	25/4/22	08	SMTP problem	Prithi	Rectified by Prithi 25/4/22	
74	15/6/22	6 56	SMTP problem Motherboard problem	Prithi	Rectified by Prithi 15/6/22	





# LAB MAINTENANCE FOR THE ACADEMIC YEAR 2020-21

## CONTROL SYSTEMS LAB

Control Systems Lab Maintenance work  
2020-2021

No.	Date	Name of the equipment	Repair/Maintenance	Sign	Remarks
1.	23/11/20	Characteristics of magnetic Amplifiers	power cord problems. hence supply is not coming through power cord hence replaced by new one		
2.	23/12/20	power cords is work.	soldering damaged here, soldering work done		



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# CONCRETE TECHNOLOGY LAB

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**DEPARTMENT OF CIVIL ENGINEERING**

Concrete Technology lab maintenance (2020-2021)

S.No	Name of the Equipment	Date of servicing	Supporting Goods material used	Remarks
1	Vee Bee consistometer	19/3/2021	Lubricant oil	
2	Slump Cone	19/3/2021	Lubricant oil	

*[Signature]*  
Lab in charge

*[Signature]*  
Head of the Department  
Civil Engineering  
Dadi Institute of Engg. & Tech.  
Anakapalle - 531002

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# COMPUTER LAB

Sl. No.	System No.	problem	initial state	Final state
<u>10/12/20</u>				
1	41	Ram	Ram verified	
2	7	AS problem	updated	
3	6	Hard disk	Hard - Hard	
4	2	Hard disk	Replaced H.D	
5	20	Mother board	Ram	
6	19	Mother board	Mother board	
7	71	Keyboard	Verified	
8	65	Monitor	Verified	
9	62	Not on	Back	
10	70	AS problem	updated	
<u>12/12/20</u>				
11	71	Keyboard	Replaced	
<u>20/1/20</u>				
1	4	Ram	} Done 20/1/20.	
2	6	Hard disk		
3	2	Hard disk		
4	19	Mother board		
5	6	Ram		
7	31	Hard disk		
8	67	Mother board		
9	43	AS problem		
10	54	Mother board		

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# ELECTRONIC DEVICES AND CIRCUITS LAB

S. no	Date	Name of the Equipment	Repair work	Checked by	Signature of student
1	22/11/21	Travelling Microscope	Adjustment the Calorimetry with Eyep	[Signature]	[Signature]
2	23/12/21	Stewart Gee's Apparatus	Repairing Circuit	[Signature]	[Signature]
3	27/12/21	PN Junction Diode	Repairing the circuit	[Signature]	[Signature]



# ELECTRICAL CIRCUITS LAB

ELECTRICAL CIRCUITS LAB			Maintenance Activities in the Year 2020-2021	
S.No	Date	Name of the Equipment	Repair/Maintenance	Lab. Incharge
1.	29/1/2020	Decade Resistance box	checked & found that resistor were damaged & replaced with another.	[Signature]
2.	28/2/2020	Meters	cleaned the dust on the kits	[Signature]
3.	23/7/2020	M.C. Ammeter	Terminals were replaced	[Signature]
4.	27/9/2020	voltmeter	Terminals Tightening	[Signature]
5.	28/11/2021	Stabilizer	checked and found that fuse was damaged so replaced with new fuse	[Signature]



  
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

# POWER ELECTRONICS LAB

Maintenance Activities in the			Year	2020-21	PHD DATE	
S.NO.	Name of the Equipment	Problem Identified	Action Taken	Attended by	Lab Incharge	MOD
1	Characteristics of Magnetic Amplifier	Power chord problem	Checked & found that supply is not coming to the kit. Found that power chord problem replaced with a new power chord. Now it is working.	Dr. Pratik Poojari Lab Incharge 11/1/20	Dr. Pratik Poojari	Head of the Department Electrical & Electronics Engg. Datta Vaidya of Dept. & Tech. Anandapur - 531 002
2	Patch Chords - 3 Nos.	Soldering damaged	Checked & found that 3 Nos patch chords are de-soldered. Soldering was done. Now it is working.	Dr. Pratik Poojari Lab Incharge 22/1/20	Dr. Pratik Poojari	Head of the Department Electrical & Electronics Engg. Datta Vaidya of Dept. & Tech. Anandapur - 531 002



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# PHYSICS LAB

S.No	Date	Name Of the Equipment	Repair Works	Received by	Signature of HOD
1.	14/09/20	Screw Gauge	Repairing Error (Adjustment)	K. G. Gopal	
2.	18/3/20	Velocity of Sound Apparatus	Adjustment of Stand with set pipe	K. G. Gopal	
3.	11/12/20	Planck's Constant	Repairing with Setup	K. G. Gopal	



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# LAB MAINTENANCE FOR THE ACADEMIC YEAR 2019-20

## COMPUTER LAB

S.No	Date	Problem	Worked with	Rectified		
1.	19	CPU fan	CPU	OS problem		
2.	20	Mother board		Mother board		
3.	31	Mother board		"		
4.	37	"		"		
5.	43	OS problem		OS	Rectified	
6.	47	"			Rectified	
7.	61	OS / key board		CPU	Rectified	
8.	62	OS / HDD			Rectified	
9.	63	Mother board			"	
10.	71	Mother board			"	
11.	27	key board			key board	Rectified
12.	9	OS				OS
13.	7	Beep sound			OS	Rectified
14.	6	OS				HDD prob
<u>11/03/2020</u>						
1.	46	No loading	CPU		Rectified	
2.	61	Keyboard problem			Rectified	
3.	58	Not on			Rectified	
4.	60	"			Rectified	
5.	57	Beep sound			Rectified	
6.	62	Key board		Rectified		
7.	63	CPU (Not on)		Rectified		
8.	69	"		Rectified		
9.	59	"		Rectified		
10.	60	monitor		Rectified		
11.	47	monitor		Rectified		
12.	95	OS		Rectified		
13.	71	Display		OS problem		



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**DEPARTMENT OF CIVIL ENGINEERING**

Concrete Technology lab maintenance (2019-2020)

S.No	Name of the Equipment	Date of servicing	Supporting Goods material used	Remarks
1	Sieve Shaker	13/11/2019	Lubricant oil	
2	Compression testing machine	13/11/2019	Release Valve for hydraulic pumps	
3	Digital Weighing Machine	7/1/2020	Needle calibration	

*[Signature]*  
Lab in charge

*[Signature]*  
Head of the Department  
Civil Engineering  
Dadi Institute of Engg. & Tech.  
Anakapalle - 531002



*[Signature]*  
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# ELECTRICAL MACHINES LAB





Electrical Machines Lab Maintenance Log  
2019-2020

No.	Date	Name of Equipment	Spare/Accessories	Sign	Remarks
1	20.11.2019	Generator	To repair terminal and to connecting wire.	(Signature)	✓
2	20.11.2019	Inductor	To repair the loose make and changing terminal.	(Signature)	✓
3	20.11.2019	Inductor	To change lead spring and to apply the grease.	(Signature)	✓
4	20.11.2019	Inductor lead	To connect the terminal in Inductor lead.	(Signature)	✓
5	27.01.2020	Jump lead	To change the jump and repair the holder and change terminal.	(Signature)	✓
6	29/01/2020	Motor Fan	To check the all functions and change fan and maintenance work.	(Signature)	✓



  
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## CHEMISTRY LAB

S.No	Date	Name of the Equipment	Repair works	Repaired by	Signature of HOD
1.	28/8/19	Analytical Balance	Screws adjusted at Both ends	T. Suresh	
2.	22/10/19	pH Meter	Screw adjustment	T. Suresh	
3.	13/12/19	Burners	Cleaning	T. Suresh	
4.	19/12/19	Apparatus Apparatus	cleaning	T. Suresh	



**P. Suresh**  
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 Dadi, Chittoor - 517 002

# CONTROL SYSTEMS LAB

Control systems lab maintenance work  
2019-2020

S.No.	Date	Name of the equipment	Repair/maintenance	By	Remarks
1.	14/6/17	DC position control kit	relay coil changed. hole changed by new relay coil.	WMM	
2.	12/1/17	Magnetic Amplifier	series connection repaired	WMM	
3.	12/1/17	DC servo motor	The Balance load. Belt was adjusted.	WMM	
4.	20/9/17	patch chords	patch chords were soldered	WMM	



  
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# LAB MAINTENANCE FOR THE ACADEMIC YEAR 2018-19

## COMPUTER LAB

S no	Date	System	Problem Description	Complaint Submitted by	Complaint Received by	Remarks
1	17/8/18	5, 55	Mouse not working	S. Sambasiva	7/11/18	Installed
2	20/8/18	50	Monitor display problem	S. Sambasiva	7/11/18	Replaced
3	11/9/18	22, 16	Keyboard complaint	S. Sambasiva	7/11/18	Replaced
4	17/9/18	up up-2	UPS-2 is not working	complaint logged	7/11/18	Replaced
5	20/9/18	34	Monitor display problem	S. Sambasiva	7/11/18	Replaced
6	21/9/18	52	System hangs	S. Sambasiva	7/11/18	Replaced
7	21/9/18	28, 5	C. software complaint	S. Sambasiva	7/11/18	Replaced
8	4/10/18	1, 3, 52, 34	LAN problem	S. Sambasiva	7/11/18	Replaced
9	13/10/18	52	Monitor problem	S. Sambasiva	7/11/18	Replaced
10	17/10/18	34, 57	Keyboard problem	S. Sambasiva	7/11/18	Replaced
11	22/10/18	30, 52	System not getting	S. Sambasiva	7/11/18	Replaced
12	22/10/18	31	Monitor problem	S. Sambasiva	7/11/18	Replaced
13	22/10/18	31	Monitor problem	S. Sambasiva	7/11/18	Replaced
14	27/10/18	31	Monitor problem	S. Sambasiva	7/11/18	Replaced
15	20/11/18	2, 24, 33	2 monitor problem	S. Sambasiva	7/11/18	Replaced
16	6/12/18	3, 10, 13, 11	3 monitor problem	S. Sambasiva	7/11/18	Replaced
17	6/12/18	52	Monitor display problem	S. Sambasiva	7/11/18	Replaced
18	8/12/18	all system	Windows has been installed	S. Sambasiva	7/11/18	Replaced
19	19/12/18	32, 58	not getting on	S. Sambasiva	7/11/18	Replaced
		42, 26	System hangs	S. Sambasiva	7/11/18	Replaced
		45	Keyboard problem	S. Sambasiva	7/11/18	Replaced
20	2-5-2019	Sym 30	Monitor display problem	S. Sambasiva	7/11/18	Replaced
21	4-4-2019	Sym 17, 34, 33, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44	LAN Problem, LAN Problem, Virus problem, Mouse problem, Keyboard problem	S. Sambasiva	7/11/18	Replaced
22	10-4-2019	CR-19, 34, 32, 57	Keyboard problem, CPU monitor, Replaced with 60C 19-5' LCO	S. Sambasiva	7/11/18	Replaced



  
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# ELECTRICAL MEASUREMENTS LAB

Maintenance Activities in the Year 2018-19

S.No	Date	Name of the Equipment	Problem Identified	Action Taken	Tab/Exchange	Photo
1	15/9/18	Inductive load	Soldering	Inside the cable was damaged & done with soldering	<del>Wagon</del>	
2	21/10/18	Selecting bridge	Resistor burnt damaged	Resistor was replaced with new one	<del>Wagon</del>	
3	4/1/19	Rheostat	Terminals	Terminals were replaced with new one	<del>Wagon</del>	
4	11/5/19	Current transformer	Connections	Loose connections were tightened	<del>Wagon</del>	
5	12/5/19	Resistance load	Coil damaged	And replaced with another coil	<del>Wagon</del>	
6	21/6/19	Energy meter	disc bend	And straightened the disc in a proper way	<del>Wagon</del>	



**Principal**  
Dadi Institute of  
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ANNAPALLE - 517 002

# CONTROL SYSTEMS LAB

S.No.	Date	Name of the Equipment	Repair/maintenance	Lab Package	Att.D.
1.	10/7/18	Decade Resistance box	Knobs were adjusted & fuse was replaced	<del>WJW</del>	<del>Att.D.</del>
2.	28/8/18	Analog Ammeter	Glass was replaced	<del>WJW</del>	<del>Att.D.</del>
3.	10/10/18	Analog Ammeter	Adjusted the pointer	<del>WJW</del>	<del>Att.D.</del>
4.	16/12/18	Digital voltmeter	Segment display was replaced	<del>WJW</del>	<del>Att.D.</del>
5.	30/5/19	Decade Inductance box	Terminals were tightened	<del>WJW</del>	<del>Att.D.</del>



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# ELECTRONIC CIRCUIT ANALYSIS LAB

S.No.	Date	Name of the Equipment	Repair/maintenance	Lab Package	Handwritten notes
1.	10/7/18	Decade Resistance box	Knobs were adjusted & fuse was replaced	✓	Handwritten notes on the right side of the page.
2.	28/8/18	Analog Ammeter	Glass was replaced	✓	Handwritten notes on the right side of the page.
3.	10/10/18	Analog Ammeter	Adjusted the pointer	✓	Handwritten notes on the right side of the page.
4.	16/12/18	Digital voltmeter	Segment display was replaced	✓	Handwritten notes on the right side of the page.
5.	30/5/19	Decade Inductance box	Terminals were tightened	✓	Handwritten notes on the right side of the page.



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# ELECTRICAL MACHINES LAB

ELECTRICAL MACHINES LAB MAINTENANCE WORK

Lab Instructor Name: K. S. Gogthrona      2018-2019

Sr	Date	Name of Equipment	Service/Repair	Sign	Remarks
1	6.7.2018	Panel Board	Panel board cable are damaged and removed. It changed cable and fuses and bed cables.		Completed
2	6.8.2018	1- $\phi$ Induction motor	1- $\phi$ Induction motor capacitor are damaged & changing capacitor.		Completed
3		leads	1- $\phi$ fuse box leads are loose wire changed. It is applying the soldering and changing terminals.		Completed
4	20.10.2018	Experiment panel	Experiment table panel terminals are damaged. It changing new terminals and loose wire checking.		Completed
5	26.11.2018	Spring Balance leads	Now applying force in Spring Balance leads.		Completed
6	6.12.2018	Transformer	Transformer test are checking and terminal are checking and how damage terminals.		Completed



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# LAB MAINTENANCE FOR THE ACADEMIC YEAR 2017-18

## CSE LAB MAINTENANCE

Maintenance activities in the year 2017-18

Sl. No.	Lab Name	Lab No.	Maintenance Details	Date
1	AI	101	AI Lab	10/07/17
2	AI	102	AI Lab	10/07/17
3	AI	103	AI Lab	10/07/17
4	AI	104	AI Lab	10/07/17
5	AI	105	AI Lab	10/07/17
6	AI	106	AI Lab	10/07/17
7	AI	107	AI Lab	10/07/17
8	AI	108	AI Lab	10/07/17
9	AI	109	AI Lab	10/07/17
10	AI	110	AI Lab	10/07/17

Maintenance activities in the year 2017-18

Sl. No.	Lab Name	Lab No.	Maintenance Details	Date
1	AI	101	AI Lab	10/07/17
2	AI	102	AI Lab	10/07/17
3	AI	103	AI Lab	10/07/17
4	AI	104	AI Lab	10/07/17
5	AI	105	AI Lab	10/07/17
6	AI	106	AI Lab	10/07/17
7	AI	107	AI Lab	10/07/17
8	AI	108	AI Lab	10/07/17
9	AI	109	AI Lab	10/07/17
10	AI	110	AI Lab	10/07/17

  
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# CONCRETE TECHNOLOGY LAB

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**DEPARTMENT OF CIVIL ENGINEERING**

Concrete Technology lab maintenance (2017-2018)

S.No	Name of the Equipment	Date of servicing	Supporting Goods material used	Remarks
1	Sieve shaker	10/2/2018	Lubricant oil, Kerosene	
2	Compaction apparatus	10/2/2018	Lubricant oil, Kerosene	
3	Slump test apparatus	10/2/2018	Lubricant oil, Kerosene	

  
Lab in charge

  
Principal  
Dadi Institute of Engineering & Technology  
Anakapalle - 531002

  
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# INTEGRATED CIRCUITS & PULSE AND DIGITAL CIRCUITS LAB

09/09/12 Lab. Work				Maintenance Activities in the year 2012-13		
Component	Qty	Lab. Name	Remarks	Material	Quantity	Remarks
1. IC 741	10	IC 741	working	IC 741	10	
2. IC 741	10	IC 741	working	IC 741	10	
3. IC 741	10	IC 741	working	IC 741	10	
4. IC 741	10	IC 741	working	IC 741	10	
5. IC 741	10	IC 741	working	IC 741	10	
6. IC 741	10	IC 741	working	IC 741	10	
7. IC 741	10	IC 741	working	IC 741	10	
8. IC 741	10	IC 741	working	IC 741	10	
9. IC 741	10	IC 741	working	IC 741	10	
10. IC 741	10	IC 741	working	IC 741	10	

work sheet 10/09/12

1. IC 741	10	IC 741	working	IC 741	10	
2. IC 741	10	IC 741	working	IC 741	10	
3. IC 741	10	IC 741	working	IC 741	10	
4. IC 741	10	IC 741	working	IC 741	10	
5. IC 741	10	IC 741	working	IC 741	10	
6. IC 741	10	IC 741	working	IC 741	10	
7. IC 741	10	IC 741	working	IC 741	10	
8. IC 741	10	IC 741	working	IC 741	10	
9. IC 741	10	IC 741	working	IC 741	10	
10. IC 741	10	IC 741	working	IC 741	10	

  
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# ELECTRONIC DEVICES AND CIRCUITS LAB

20/11/22					20/11/22			
Sl. No.	Component	Value	Lab	Result	Sl. No.	Component	Value	Result
1	Resistor	10k	Resistor	working	1	Resistor	10k	working
2	Capacitor	100nF	Capacitor	working	2	Capacitor	100nF	working
3	Diode	1N4148	Diode	not working	3	Diode	1N4148	not working
4	Transistor	BC107	Transistor	not working	4	Transistor	BC107	not working
23/11/22								
1	Resistor	10k	Resistor	working	1	Resistor	10k	working
2	Capacitor	100nF	Capacitor	working	2	Capacitor	100nF	working
3	Diode	1N4148	Diode	working	3	Diode	1N4148	working
4	Transistor	BC107	Transistor	working	4	Transistor	BC107	working
5	Resistor	10k	Resistor	working	5	Resistor	10k	working



  
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# ELECTRONIC CIRCUIT ANALYSIS LAB

Maintenance Activities in the Year 2017-2018			Repair/Maintenance		
Sr No	Date	Name of the Equipment	Lab Incharge	Head	Head
1.	20/12/17	AC Stabilizer	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
2.	29/12/17	Digital voltmeter	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
3.	31/1/18	RPS	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
4.	12/4/18	RPS	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
	18/5/18	Main Supply	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
	9/6/18	Main Supply	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>



*[Signature]*  
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# PHYSICS LAB

Sl. no.	Description, specifications, make, etc.	Name & address of supplier	Date of purchase	Sl. no.	Material name	Unit price	Qty	Total cost	Remarks
1	Thermistor characteristics apparatus with full meter and own setup, voltage pot, thermistor heater control	Rangayya Station - Anantapur	25/12/2015	5/155	S-0026112 24B	217	2	234.00	
2	Energy band gap of p-n junction apparatus with full meter and own setup, voltage pot, p-n heater control	"	"	"	"	217	2	434.00	



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