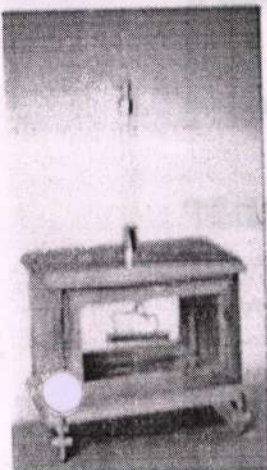
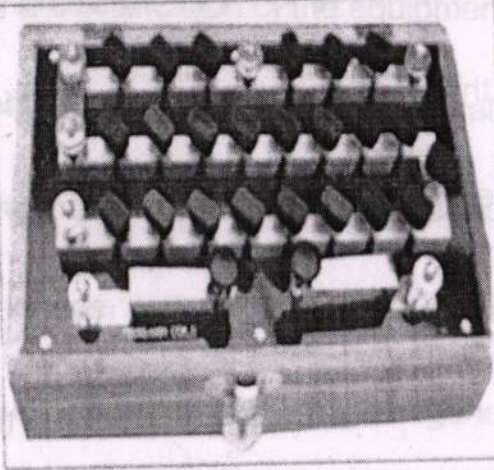


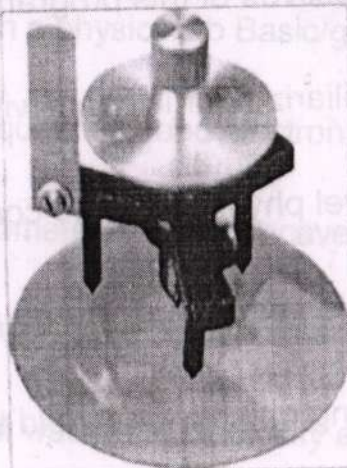
Mahatma Gandhi College
Department Of Physics
Add on course - 2019-20
Repair and maintenance of lab equipment's



Vibration Magnetometer



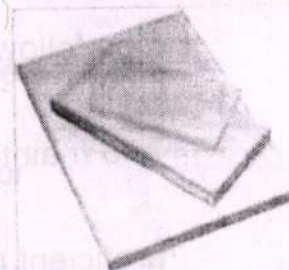
P.O.Box



Spherometer



Bar Magnet U-Magnet



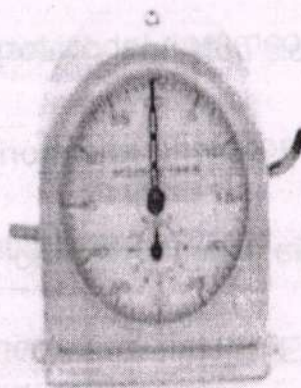
Glass slab



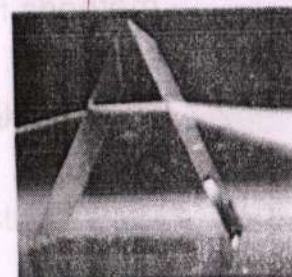
Hand Lens Metallic



Screw Gauge



Stop Clock



Prism

resistance coils, resistance boxes, tap keys, capacitors, inductors,

transformers, primary and secondary cells, one-way and two-way keys,

and capacitance, handling and caring for potentiometers and

multimeters. Utilization of computers in laboratories: Central processing

unit.

REPAIR AND MAINTENANCE OF BASIC LAB EQUIPMENTS

Broad objectives of this programme: the program's overarching goals are to familiarize participants with the fundamental resources offered in college-level physics labs, to convey knowledge of the fundamentals of lab structure and management, and more.

The following objectives should be met: instruct the students in the use and maintenance of basic laboratory instruments; help them become proficient in common laboratory procedures; instruct the students in the methods for acquiring and storing laboratory supplies and equipment; and help them adopt safe laboratory disposal practices.

Syllabus

(30 Hours)

A general classification of the equipment in a physics lab Basic/general equipment, optical equipment, electrical equipment, and electronic equipment. telescope optical lever, spectrometer, prism, concave and convex lenses, and weight box. Arrangements for laboratories and dark rooms; utilities in the physics lab in general water and electricity are provided; Vernier callipers, a screw gauge spherometer are tools for measuring length and time. Digital timer, stopwatch, and stop clock; enduring magnets

Ammeters, voltmeters, galvanometers, potential differences, resistance, and power are examples of electrical components and circuits. Electrical circuit components include resistors (with color coding), rheostats, resistance coils, resistance boxes, tap keys, capacitors, inductors, transformers, primary and secondary cells, one-way and two-way keys, and capacitance. handling and caring for potentiometers and multimeters. Utilization of computers in laboratories: Central processing unit.

Enrollment List Of students 2019 - 20

Sl No:	Candidate Code	Name of the Candidate
1	23018118006	ASWIN K BABU
2	23018118007	ASWINI KURUP
3	23018118008	DEVIKA V S
4	23018118009	GAUTAM R
5	23018118010	GOPIKA G NAIR
7	23018118012	KARTHIK H
8	23018118016	NANDU J S
9	23018118017	ROY S JOHN
10	23018118018	SANJAY SANTHOSH
11	23018118019	SARANG S S
12	23018118020	SUSHIL G
13	23018118022	VISHNU CHANDRAN C K
14	23018118023	VISHNU SURESH
15	23018118024	VIVEK G KISHORE
16	23018118025	ABHIJITH V S
17	23018118026	ADITHYA A S
18	23018118027	ADITHYA ANIL
19	23018118028	AKHIL R D
20	23018118029	AKHILA A A
21	23018118030	AMBADI THULASI
22	23018118031	ANAND C
23	23018118034	ANU CHANDRAN M
24	23018118035	ARJUN A S
25	23018118036	ARJUN MANOJ
26	23018118037	ASWIN R L
27	23018118038	ATHIRA S
28	23018118039	ATHULYA R
29	23018118040	BHAVYA S NAIR
30	23018118041	DEVIKA P KUMAR
31	23018118042	DEVIKA B
32	23018118043	G A GOKUL
33	23018118044	HARISANKAR V S
34	23018118045	JISHMA M S
35	23018118046	KARTHIKESAN B S
36	23018118047	KASYAP S ASHTTAMAN
37	23018118048	LEKSHMI A S
38	23018118049	MITHUN S
39	23018118051	PRANAV P

40	23018118052	RAHUL U C
41	23018118053	RESHMI R
42	23018118054	S A DEVANARAYANAN
43	23018118055	ASLAM A
44	23019118001	ADHARSH M R
45	23019118002	AJIN U V
46	23019118003	AKSHAY V NAIR
47	23019118004	AMRITHA S VINOJ
48	23019118005	AMRUTHA S
49	23019118006	ANJALI M S
50	23019118010	GOPIKRISHNA R
51	23019118011	GOUTHAM B
52	23019118012	HONEY S K
53	23019118013	JYOTHIKA R R
54	23019118014	LEKSHMI M S
55	23019118015	PARVATHY G K
56	23019118016	PRANAV M P
57	23019118017	RAJKAMAL S
58	23019118018	RESHMA B S
59	23019118019	SYEDATH NASEEBA S
60	23019118020	A J RAHUL KRISHNA
61	23019118021	AADHYA M J
62	23019118022	ABHIJITH B S
63	23019118023	ADARSH A S
64	23019118024	AISWARYA R P
65	23019118025	AISWARYA S A
66	23019118026	AJMAL S
67	23019118027	AKASH M A
68	23019118028	AKSHARA R S
69	23019118029	AMAL J
70	23019118030	AMAL S R
71	23019118031	AMRUTHA R
72	23019118032	ANAMIKA H T
73	23019118033	ANASWARA JOSE V
74	23019118034	ARATHY A S
75	23019118035	ARCHANA S K
76	23019118036	ARDRA B S
77	23019118037	ASHTAMY A R
78	23019118038	ASWANATH V S
79	23019118039	ASWIN DEV J
80	23019118040	DILNA DAMODARAN
81	23019118041	GOVIND C
82	23019118042	HARIGOVIND J R
83	23019118043	HARITHA L H
84	23019118044	JAGAN G PILLAI

85	23019118045	MARIA SEBASTIAN
86	23019118046	NIKHITHA A K
87	23019118047	S BIDHU BHOOSHAN
88	23019118048	UDAYALAL R
89	23019118049	VAISHNAVI PRASAD
90	23019118050	VIJITH V A

Attendance: Repair and Maintenance Of Basic Laboratory Equipment

Sl No:	Candidate Code	Name of the Candidate	2019		25	29	30	Dec		18	Jan 2020	
			Nov 18	Nov 18				9	13		4	12
1	23018118006	ASWIN K BABU	✓	a	/	/	a	/	/	/	/	/
2	23018118007	ASWINI KURUP	✓	✓	/	/	/	/	/	/	/	/
3	23018118008	DEVIKA V S	✓	✓	/	/	/	/	/	/	/	/
4	23018118009	GAUTAM R	✓	a	/	a	✓	✓	✓	✓	✓	✓
5	23018118010	GOPIKA G NAIR	✓	a	/	a	✓	/	/	/	/	/
7	23018118012	KARTHIK H	✓	✓	/	/	/	/	/	/	/	/
8	23018118016	NANDU J S	✓	/	/	a	a	a	/	/	/	a
9	23018118017	ROY S JOHN	✓	✓	/	/	/	/	/	/	/	/
10	23018118018	SANJAY SANTHOSH	✓	✓	/	/	/	/	/	/	/	/
11	23018118019	SARANG S S	✓	✓	/	/	a	/	/	/	/	/
12	23018118020	SUSHIL G	a	✓	/	/	/	/	/	/	/	/
13	23018118022	VISHNU CHANDRAN C K	a	✓	/	/	/	/	/	/	/	/
14	23018118023	VISHNU SURESH	✓	a	a	/	/	/	/	/	/	/
15	23018118024	VIVEK G KISHORE	✓	✓	/	/	/	/	/	/	/	/
16	23018118025	ABHIJITH V S	✓	✓	a	a	a	✓	✓	✓	✓	✓
17	23018118026	ADITHYA A S	✓	a	/	✓	✓	✓	✓	✓	✓	✓
18	23018118027	ADITHYA ANIL	✓	✓	✓	/	/	/	/	/	/	/
19	23018118028	AKHIL R D	✓	✓	a	/	/	/	/	/	/	/
20	23018118029	AKHILA A A	✓	a	/	/	/	/	/	/	/	/
21	23018118030	AMBADI THULASI	✓	✓	a	/	/	/	/	/	/	/
22	23018118031	ANAND C	✓	✓	/	/	/	/	/	/	/	/
23	23018118034	ANU CHANDRAN M	✓	✓	/	/	/	/	/	/	/	/
24	23018118035	ARJUN A S	✓	a	/	/	/	/	/	/	/	/
25	23018118036	ARJUN MANOJ	✓	✓	/	/	/	/	/	/	/	/
26	23018118037	ASWIN R L	/	✓	✓	✓	✓	✓	✓	a	a	✓
27	23018118038	ATHIRA S	/	✓	/	/	✓	✓	✓	a	a	✓
28	23018118039	ATHULYA R	a	✓	/	/	/	/	✓	a	a	✓
29	23018118040	BHAVYA S NAIR	/	✓	/	/	/	/	/	/	/	/
30	23018118041	DEVIKA P KUMAR	/	✓	/	/	/	/	/	/	a	/
31	23018118042	DEVIKA B	/	✓	/	/	a	/	/	/	a	/
32	23018118043	G A GOKUL	/	✓	/	a	/	/	/	/	/	a
33	23018118044	HARISANKAR V S	/	✓	/	a	/	/	/	/	/	/
34	23018118045	JISHMA M S	a	✓	/	a	/	/	/	/	/	/
35	23018118046	KARTHIKESAN B S	/	✓	/	/	/	/	/	/	/	/
36	23018118047	KASYAP S ASHTTAMAN	/	✓	/	/	/	/	/	/	/	/
37	23018118048	LEKSHMI A S	/	✓	/	a	/	a	/	/	/	/
38	23018118049	MITHUN S	/	✓	a	/	/	/	a	/	/	/
39	23018118051	PRANAV P	/	✓	✓	/	/	/	/	a	/	/
40	23018118052	RAHUL U C	/	a	a	/	/	/	/	/	/	a

41	23018118053	RESHMI R	/	/	a	a	/	/	/	/	/	/	a
42	23018118054	S A DEVANARAYANAN	/	/	/	/	/	/	/	/	/	/	/
43	23018118055	ASLAM A	/	/	/	/	/	/	/	/	/	/	/
44	23019118001	ADHARSH M R	/	/	a	a	/	/	/	/	/	/	/
45	23019118002	AJIN U V	/	/	/	/	/	/	/	/	/	/	/
46	23019118003	AKSHAY V NAIR	/	/	/	/	/	/	/	/	/	/	/
47	23019118004	AMRITHA S VINOJ	a	/	/	/	/	/	/	/	/	/	/
48	23019118005	AMRUTHA S	a	/	/	/	a	/	/	/	/	/	/
49	23019118006	ANJALI M S	/	/	/	/	/	/	/	/	/	/	/
50	23019118010	GOPIKRISHNA R	/	/	/	/	/	/	/	/	/	/	/
51	23019118011	GOUTHAM B	/	/	/	/	/	/	/	/	/	/	/
52	23019118012	HONEY S K	/	/	/	/	/	/	/	/	/	/	/
53	23019118013	JYOTHIKA R R	/	/	a	a	/	a	/	/	/	/	/
54	23019118014	LEKSHMI M S	/	/	/	/	/	/	/	/	/	/	/
55	23019118015	PARVATHY G K	/	/	/	/	/	/	/	/	/	/	/
56	23019118016	PRANAV M P	/	/	/	/	/	/	/	/	/	/	/
57	23019118017	RAJKAMAL S	a	/	/	/	/	a	/	/	/	/	/
58	23019118018	RESHMA B S	a	/	/	/	/	/	/	/	/	/	/
59	23019118019	SYEDATH NASEEBA S	a	/	/	/	a	/	/	/	/	/	/
60	23019118020	A J RAHUL KRISHNA	a	a	/	/	/	/	/	/	/	/	a
61	23019118021	AADHYA M J	/	/	/	/	/	/	/	/	/	/	/
62	23019118022	ABHIJITH B S	/	/	/	/	/	/	/	/	/	/	/
63	23019118023	ADARSH A S	/	/	/	/	a	/	/	/	/	/	/
64	23019118024	AISWARYA R P	/	a	/	/	/	/	/	/	/	/	/
65	23019118025	AISWARYA S A	/	a	/	/	/	/	/	/	/	/	/
66	23019118026	AJMAL S	/	/	/	/	/	/	/	/	/	/	/
67	23019118027	AKASH M A	/	/	a	/	/	/	/	/	/	/	a
68	23019118028	AKSHARA R S	/	/	/	/	/	a	/	/	/	/	/
69	23019118029	AMAL J	/	/	/	/	/	/	/	/	/	/	/
70	23019118030	AMAL S R	/	/	/	/	/	/	/	/	/	/	/
71	23019118031	AMRUTHA R	/	/	/	/	/	/	/	/	/	/	/
72	23019118032	ANAMIKA H T	/	/	/	/	a	/	/	/	/	/	/
73	23019118033	ANASWARA JOSE V	/	a	/	/	/	/	/	/	/	/	/
74	23019118034	ARATHY A S	/	a	/	/	/	/	/	/	/	/	/
75	23019118035	ARCHANA S K	/	/	/	/	/	/	/	/	/	/	/
76	23019118036	ARDRA B S	/	a	a	/	/	/	/	/	/	/	a
77	23019118037	ASHTAMY A R	/	/	/	/	/	/	/	/	/	/	/
78	23019118038	ASWANTH V S	/	/	a	/	/	/	/	/	/	/	/
79	23019118039	ASWIN DEV J	/	/	/	a	/	/	a	/	/	/	/
80	23019118040	DILNA DAMODARAN	/	/	/	/	/	/	/	/	/	/	/
81	23019118041	GOVIND C	/	a	/	/	/	/	/	/	/	/	/
82	23019118042	HARIGOVIND J R	/	/	/	/	/	/	/	/	/	/	/
83	23019118043	HARITHA L H	/	/	a	/	/	/	a	/	/	/	/
84	23019118044	JAGAN G PILLAI	/	/	/	/	/	/	/	/	/	/	/
85	23019118045	MARIA SEBASTIAN	a	a	/	a	/	/	/	/	/	/	a

Test Paper

- 1) The least count of Screw gauge is
 - A) 0.01 cm
 - B) 0.01mm
 - C) 0.001 cm
 - D) 0.001 mm

- 2) Using which of the below instrument, we can determine the diameter of the cricket ball
 - A) Vernier Calliper
 - B) Screw Gauge
 - C) Physical Balance
 - D) Meter scale

- 3) Distance between viluppuram and Chennai can be found in
 - A) Kilometers
 - B) Centimeters
 - C) Millimeters
 - D) Meters

- 4) The least count of a vernier calliper is also known as _____.
 - A) Vernier count
 - B) Vernier sample
 - C) Vernier constant
 - D) Vernier calibration

- 5) The least count of a vernier calliper is _____.
 - A) 1 mm
 - B) 0.1 mm
 - C) 0.001 mm
 - D) 10 mm

- 6) The difference between the value of one main scale division and one vernier scale division is known as _____.
 - A) Least count
 - B) Resolution
 - C) Actual reading

- D) None of the options
- 7) If the reading is 0.05 mm, what would be the positive zero error?
- A) 0
 - B) 0.1 mm
 - C) +0.05 mm
 - D) -0.05 mm
- 8) Zero error is given by the formula _____.
- A) Actual reading = Main scale - Vernier scale - (Zero error)
 - B) Actual reading = Main scale + Vernier scale - (Zero error)
 - C) Actual reading = Main scale + Vernier scale + (Zero error)
 - D) Actual reading = Main scale * Vernier scale - (Zero error)
- 9) The lowest main scale division is _____.
- A) 1 mm
 - B) 0.1 mm
 - C) 0.01 mm
 - D) 10 mm
- 10) Which instrument is most suitable to measure the internal diameter of a test tube:-
- A) meter rule
 - B) Vernier calipers
 - C) measuring tape
 - D) screw gauge

Test Paper Marks

Sl No:	Candidate Code	Name of the Candidate	Marks	
1	23018118006	ASWIN K BABU	19	Aswin
2	23018118007	ASWINI KURUP	19	Aswin
3	23018118008	DEVIKA V S	20	Devika
4	23018118009	GAUTAM R	20	Gautam
5	23018118010	GOPIKA G NAIR	15	Goopi
7	23018118012	KARTHIK H	17	Karthik
8	23018118016	NANDU J S	15	Nandu
9	23018118017	ROY S JOHN	16	Roy
10	23018118018	SANJAY SANTHOSH	16	Sanjay
11	23018118019	SARANG S S	15	Sarang
12	23018118020	SUSHIL G	18	Sushil
13	23018118022	VISHNU CHANDRAN C K	18	Vishnu
14	23018118023	VISHNU SURESH	17	Vishu
15	23018118024	VIVEK G KISHORE	19	Vivek
16	23018118025	ABHIJITH V S	20	Abhi
17	23018118026	ADITHYA A S	20	Adithya
18	23018118027	ADITHYA ANIL	20	Adithya
19	23018118028	AKHIL R D	19	Akhil
20	23018118029	AKHILA A A	18	Akhila
21	23018118030	AMBADI THULASI	17	Ambadi
22	23018118031	ANAND C	17	Anand
23	23018118034	ANU CHANDRAN M	17	Anu
24	23018118035	ARJUN A S	18	Arjun
25	23018118036	ARJUN MANOJ	18	Arjun
26	23018118037	ASWIN R L	19	Aswin
27	23018118038	ATHIRA S	19	Athira
28	23018118039	ATHULYA R	19	Athulya
29	23018118040	BHAVYA S NAIR	15	Bhavya
30	23018118041	DEVIKA P KUMAR	16	Devika
31	23018118042	DEVIKA B	15	Devika
32	23018118043	G A GOKUL	16	Gokul
33	23018118044	HARISANKAR V S	17	Harisankar
34	23018118045	JISHMA M S	17	Jishma
35	23018118046	KARTHIKESAN B S	17	Karthik
36	23018118047	KASYAP S ASHTTAMAN	18	Kasyap
37	23018118048	LEKSHMI A S	18	Lekshmi
38	23018118049	MITHUN S	18	Mithun
39	23018118051	PRANAV P	19	Pranav
40	23018118052	RAHUL U C	20	Rahul

41	23018118053	RESHMI R	20	<u>Din</u>
42	23018118054	S A DEVANARAYANAN	20	<u>SADan</u>
43	23018118055	ASLAM A	19	<u>Aslam</u>
44	23019118001	ADHARSH M R	19	<u>Adharsh</u>
45	23019118002	AJIN U V	18	<u>Ajin</u>
46	23019118003	AKSHAY V NAIR	18	<u>Akshay</u>
47	23019118004	AMRITHA S VINOJ	17	<u>Akshay Vnd</u>
48	23019118005	AMRUTHA S	17	<u>Amrutha S</u>
49	23019118006	ANJALI M S	15	<u>Anjali M S</u>
50	23019118010	GOPIKRISHNA R	16	<u>Gopik</u>
51	23019118011	GOUTHAM B	14	<u>Goutham</u>
52	23019118012	HONEY S K	16	<u>Honey</u>
53	23019118013	JYOTHIKA R R	18	<u>Jyoti</u>
54	23019118014	LEKSHMI M S	18	<u>Lekshmi</u>
55	23019118015	PARVATHY G K	20	<u>Parvathy</u>
56	23019118016	PRANAV M P	20	<u>Pranav</u>
57	23019118017	RAJKAMAL S	20	<u>Rajkamal</u>
58	23019118018	RESHMA B S	20	<u>Reshma</u>
59	23019118019	SYEDATH NASEEBA S	19	<u>Syedath</u>
60	23019118020	A J RAHUL KRISHNA	19	<u>Aj Rahul Krishna</u>
61	23019118021	AADHYA M J	19	<u>Aadhyamj</u>
62	23019118022	ABHIJITH B S	18	<u>Abhijith</u>
63	23019118023	ADARSH A S	18	<u>Adarsh</u>
64	23019118024	AISWARYA R P	17	<u>Aiswarya</u>
65	23019118025	AISWARYA S A	17	<u>Aiswarya</u>
66	23019118026	AJMAL S	14	<u>Ajmal</u>
67	23019118027	AKASH M A	15	<u>Akash</u>
68	23019118028	AKSHARA R S	16	<u>Akshara</u>
69	23019118029	AMAL J	18	<u>Amal</u>
70	23019118030	AMAL S R	19	<u>Amal</u>
71	23019118031	AMRUTHA R	18	<u>Amrutha</u>
72	23019118032	ANAMIKA H T	19	<u>Anamika</u>
73	23019118033	ANASWARA JOSE V	15	<u>Anaswara</u>
74	23019118034	ARATHY A S	20	<u>Arathy</u>
75	23019118035	ARCHANA S K	20	<u>Archana</u>
76	23019118036	ARDRA B S	20	<u>Ardra</u>
77	23019118037	ASHTAMY A R	18	<u>Ashtamy</u>
78	23019118038	ASWANATH V S	15	<u>Aswanath</u>
79	23019118039	ASWIN DEV J	15	<u>Aswin</u>
80	23019118040	DILNA DAMODARAN	16	<u>Dilna</u>
81	23019118041	GOVIND C	16	<u>Govind</u>
82	23019118042	HARIGOVIND J R	17	<u>Harigovind</u>
83	23019118043	HARITHA L H	18	<u>Haritha</u>
84	23019118044	JAGAN G PILLAI	19	<u>Jagan</u>
85	23019118045	MARIA SEBASTIAN	18	<u>Maria</u>

86	23019118046	NIKHITHA A K	19
87	23019118047	S BIDHU BHOOSHAN	20
88	23019118048	UDAYALAL R	18
89	23019118049	VAISHNAVI PRASAD	18
90	23019118050	VIJITH V A	19

Nikhitha
S Bidhu
Udayalal
Vaishnavi
Vijith

[Signature]

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Name of the Candidate	Roll No.	Grade	Percentage
ASWIN K BABU	23019118051		
ASWIN KURUP	23019118052		
CHAKRA VY	23019118053		
CAITANYA	23019118054		
HARSHAN	23019118055		
ANURAG	23019118056		
ROY S ANIL	23019118057		
ANAY SATHISH	23019118058		
SARANG S	23019118059		
ANIL G	23019118060		
ANISH SHANMUKH	23019118061		
ANISH SURESH	23019118062		
VIVEK S BISHNOI	23019118063		
ATHINATH V S	23019118064		
ADITHYAN S	23019118065		
ADITHYAN A	23019118066		
ANIL D	23019118067		
ANIL A	23019118068		
ALABDI THILAK	23019118069		
ANAND C	23019118070		
ANU CHANDRAN M	23019118071		
ANIL A S	23019118072		
ANIL MANOJ	23019118073		
ASWIN R	23019118074		

27	23018118038	ATHIRA S				✓
28	23018118039	ATHULYA R				✓
29	23018118040	BHAVYA S NAIR				✓
30	23018118041	DEVIKA P KUMAR				✓
31	23018118042	DEVIKA B				✓
32	23018118043	G A GOKUL		✓		
33	23018118044	HARISANKAR V S		✓		
34	23018118045	JISHMA M S		✓		
35	23018118046	KARTHIKESAN B S		✓		
36	23018118047	KASYAP S		✓		
37	23018118048	LEKSHMI A S		✓		
38	23018118049	MITHUN S		✓		
39	23018118051	PRANAV P		✓		
40	23018118052	RAHUL U C		✓		
41	23018118053	RESHMI R	✓			
42	23018118054	S A DEVANARAYANAN	✓			
43	23018118055	ASLAM A	✓			
44	23019118001	ADHARSH M R	✓			
45	23019118002	AJIN U V	✓			
46	23019118003	AKSHAY V NAIR		✓		✓
47	23019118004	AMRITHA S VINOJ				✓
48	23019118005	AMRUTHA S				✓
49	23019118006	ANJALI M S				✓
50	23019118010	GOPIKRISHNA R				✓
51	23019118011	GOUTHAM B				✓
52	23019118012	HONEY S K				✓
53	23019118013	JYOTHIKA R R				✓
54	23019118014	LEKSHMI M S				✓
55	23019118015	PARVATHY G K				✓
56	23019118016	PRANAV M P				✓
57	23019118017	RAJKAMAL S				✓
58	23019118018	RESHMA B S				✓
59	23019118019	SYEDATH NASEEBA S				✓
60	23019118020	A J RAHUL KRISHNA		✓		
61	23019118021	AADHYA M J		✓		
62	23019118022	ABHIJITH B S		✓		
63	23019118023	ADARSH A S		✓		
64	23019118024	AISWARYA R P		✓		
65	23019118025	AISWARYA S A		✓		
66	23019118026	AJMAL S		✓		
67	23019118027	AKASH M A		✓		
68	23019118028	AKSHARA R S		✓		
69	23019118029	AMAL J				✓
70	23019118030	AMAL S R				✓
71	23019118031	AMRUTHA R				✓

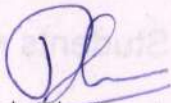
72	23019118032	ANAMIKA H T			✓	
73	23019118033	ANASWARA JOSE V			✓	
74	23019118034	ARATHY A S			✓	
75	23019118035	ARCHANA S K			✓	
76	23019118036	ARDRA B S			✓	
77	23019118037	ASHTAMY A R			✓	
78	23019118038	ASWANTH V S			✓	
79	23019118039	ASWIN DEV J			✓	
80	23019118040	DILNA DAMODARAN			✓	
81	23019118041	GOVIND C			✓	
82	23019118042	HARIGOVIND J R			✓	
83	23019118043	HARITHA L H			✓	
84	23019118044	JAGAN G PILLAI			✓	
85	23019118045	MARIA SEBASTIAN			✓	
86	23019118046	NIKHITHA A K			✓	
87	23019118047	S BIDHU BHOOSHAN			✓	
88	23019118048	UDAYALAL R			✓	
89	23019118049	VAISHNAVI PRASAD			✓	
90	23019118050	VIJITH V A			✓	


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CERTIFICATE

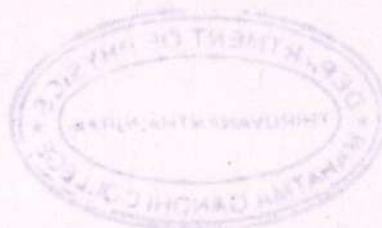
It is certified that Mr./Ms. eforind.c.....has participated in the Add-on course **Repair and Maintenance of Basic lab equipment** conducted by this department during 2019-20.


Coordinator


Head of the Department


Principal


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MAHATMA GANDHI COLLEGE
THIRUVANANTHAPURAM



Report

The course was successfully carried out for 100 students with a total of 30 hours including theory and laboratory experience. The significance of laboratory upkeep for maintaining the security of laboratory personnel, the precision and dependability of experimental results, the longevity of equipment and facilities, and the efficiency of laboratory experiments was made clear to students. Students realized that equipment will live longer when it receives regular, high-quality maintenance. Without regular upkeep, equipment failures would happen more frequently and would need a lot more repairs. It was known how important it was to keep equipment in top working condition, and a piece of equipment received the appropriate routine maintenance.

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