

Rayat Shikshan Sanstha's

Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burli)

Department- Physics

Short Term Course

Year: 2021-22

Constitution of Committee

During the academic year 2021-22 The Department of Physics runs the **Short Term Course** named "**Repairing of Electrical Home Appliances**" for B.Sc. III students.

Chairman: Ms. N. J. Kamble

Member: Dr. Patil G. R.

Mr. Bhagyawant P. K







Rayat Shikshan Sanstha's

Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burli)

Department - Physics

Short Term Course

Maintainence and Repairing of Electrical Home Appliances

(STC)(90 lectures)

Year: 2021-22

Objectives

- ❖ To make availability of self employability.
- ❖ To develop confidence for doing job.
- ❖ To develop skills required for job.
- ❖ To develop knowledge of home equipments.
- ❖ To give the knowledge about the testing of the electric home appliances like fan, iron, refrigerator, tube light, mixer, heater, etc.
- ❖ To render help to their family in wise testing electric domestics appliances.
- ❖ Students help to their family to purchase of good quality electric appliances.


Head,
Department of Physics
Dr. Patangrao Kadam Mahavidyalaya,
Ramanandnagar (Burli)

Rayat Shikshan Sanstha's
Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burli)
Department- Physics
Short Term Course
Year: 2021-22
Annual Planning

17/09/2022

Sr. No.	Month	Particulars
1.	June	
2.	July	
3.	August	
4.	September	To prepare the constitution of the committee and call for the meeting Distribution of the syllabus to concerned faculty
5.	October	lectures regarding Short Term Course
6.	November	lectures regarding Short Term Course
7.	December	Meeting of the committee about the syllabus completion and arrangement of Exam
8.	January	Practicals regarding Short Term Course
9.	February	Exam of all students and check the answer sheets
10.	March	
11.	April	
12.	May	


Head,
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Rayat Shikshan Sanstha's
Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burli)
Department- Physics
Short Term Course
Year: 2021-22
Notice -01 Date: 19/09/2021

All the faculty and members of the committee are informed that the short term course committee meeting will be held on 20/09/2020 in department at 04:00pm. to discuss following subject.

Agenda:

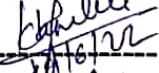
- 1) Discussion on conduction of short term course during current academic year 2021-22 and to get the permission to conduct short term course under Karmveer Vidya Prabodhani named "Repairing of Electrical Home Appliances".
- 2) To discuss on notice to student.
- 3) To discuss about the intake capacity of course and fees.
- 4) Distribution of syllabus.
- 5) To discuss on weekly time table.

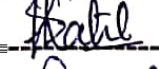
Chairman: Ms. N. J. Kamble

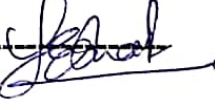
Member: Dr. Patil G. R.

Mr. Bhagyawant P. K

Signature







Rayat Shikshan Sanstha's

Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burli)

Department- Physics

Short Term Course

Year: 2021-22

Proceeding of Meeting No.-01

Date: 20/09/2021

Meeting of the committee members was held in the department on 11/08/2021 at 04.00pm. The following findings were made.

- 1) Short term course run by the department of Physics Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burli), Shivaji University, Kolhapur. So it is necessary to get the permission to conduct the course.
- 2) If the permission is granted then the courses will be launched to B.Sc. III year student.
- 3) These courses will be on the self finance basis and decided to charge a fee of Rs.500/- per student.
- 4) Discussed about the syllabus distribution and the preparation of time table.

Following member were present for the meeting

Chairman: Ms. N. J. Kamble

Member: Dr. Patil G. R.

Mr. Bhagyawant P. K

Signature

N. J. Kamble

G. R. Patil

B. P. K.

Rayat Shikshan Sanstha's

Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burl)

Department- Physics

Short Term Course

Year: 2021-22

Notice -02

Date: 12/10/2020

All the faculty and members of the committee are informed that the short term course committee meeting will be held on 16/10/2021 in department at 04:30pm. to discuss following subject.

Agenda:

1. To distribute syllabus of Short Term course.
2. To discuss Student intake capacity.
3. To discuss mode of conduction of practical and theory exams as per the guidelines of the Karmveer Vidya Prabodhani.

Chairman: Ms. N. J. Kamble

Member: Dr. Patil G. R.

Mr. Bhagyawant P. K



Rayat Shikshan Sanstha's

Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burli)

Department- Physics

Short Term Course

Year: 2021-22

Proceeding of Meeting No.-02

Date: 16/10/2021

Meeting of the committee members was held in the department on 16/10/2021 at 04.30pm. The following discussion was made.

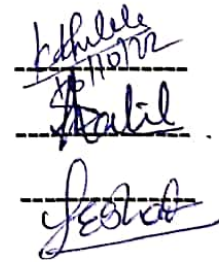
1. To distribute syllabus of Short Term course
2. To discuss Student intake capacity
3. Discussion is made about the conduction of practical and theory exams as per the guidelines of the Karmveer Vidya Prabodhini, Satara.

Following members were present for the meeting.

Chairman: Ms. N. J. Kamble

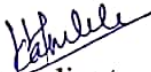
Member: Dr. Patil G. R.


Mr. Bhagyawant P. K



Rayat Shikshan Sanstha's
Dr. Patangrao Kadam Mahavidyalaya , Ramanandnagar (Burli)
Dept. of Physics
Short Term Course
"Maintenance and Repairing of Electrical Home Appliances"
List of students for Year : 2021-22

Sr. No.	Roll. No.	Name of the student
1	1922	Chougule Rupali Mahavir
2	1923	Gavade Shivani Ganapati
3	1924	Mujawar Parwin Hamid
4	1925	Jadhav Dhananjay Pandurang
5	1928	Kolkar Bistawa Anand
6	1929	Salunkhe Anjali Sampatrao
7	1930	Shinde Zunzarrao Baburao
8	1931	Suryawanshi Shreyas Subhash


Coordinator
(Miss. Kamble N.J)


Head,
Department of Physics
Dr. Patangrao Kadam Mahavidyalaya,
Ramanandnagar (Burli)

Rayat Shikshan Sanstha's
Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burli)
Department of Physics
Short Term Course Syllabus (STC 90 lecture)

1. How to Handle the Electric Equipments

Maintenance of electric appliances

Defects in Electric appliances

Precautions to be taken during the use of electric appliances.

2. How To Test Electric Domestic Equipments

Ways of testing electric equipments- using test lamp & using continuity tester.

Testing of tube light, testing of choke, testing of starter.

Testing of ceiling fan, condenser testing, testing of windings.

3. Repair electric home appliances

Repairing of electric home appliances:-

To repair ordinary electric iron.

To repair automatic electric iron.

To repair the tube light.

To repair the table fan.

4. Practicals and Journal Writing


Head,
Department of Physics
Dr. Patangrao Kadam Mahavidyalaya
Ramanandnagar (Burli)

Rayat Shikshan Sanstha's

Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burli)

Department- Physics

Short Term Course – Time Table

Year: 2021-22

Sr. No.	Day	Time	Theory/ Practical	Name of the Teacher
1	Friday	01:40pm to 02:30pm	Theory	Miss. N. J. Kamble
		02:30pm to 05:00pm	Practical	Mr. Bhagywant P. K Dr. Patil G. R.
2	Saturday	01:40pm to 02:30pm	Theory	Dr. Patil G. R.
		02:30pm to 05:00pm	Practical	Mr. Bhagywant P. K Miss. N. J. Kamble

Kamble
Co-ordinator

Patil
Head
Department of Physics
Dept. of Physics
Dr. Patangrao Kadam Mahavidyalaya,
Ramanandnagar (Burli)

Rayat Shikshan Sanstha's
Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burlil)

Dept. of Physics

Academic Year 2021-22
CLASS B.Sc. III YEAR


Short term course- Student Attendance

Sr. No	Roll. No.	Name of the Student	Date																								
			14/10/2021	15/10/2021	21/10/2021	22/10/2021	11/11/2021	12/11/2021	18/11/2021	19/11/2021	25/11/2021	26/11/2021	2/12/2021	3/12/2021	9/12/2021	10/12/2021	16/12/2021	17/12/2021	23/12/2021	24/12/2021	30/12/2021	31/12/2021	6/1/2022	7/1/2022	13/1/2022		
1	1922	Chougule Rupali Mahavir	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
2	1923	Gavade Shivani Ganapati	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
3	1924	Mujawar Parwin Hamid	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
4	1925	Jadhav Dhananjay Pandurang	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
5	1928	Kolkar Bistawa Anand	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
6	1929	Salunkhe Anjali Sampatrao	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
7	1930	Shinde Zunzarao Baburao	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
8	1931	Suryawanshi Shreyas Subhash	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P

Head
Head

Department of Physics
Dr. Patangrao Kadam Mahavidyalaya,
Ramanandnagar (Burlil)

Co-ordinator
Co-ordinator
(Ms. N.S. Kamble)

Estd. -1968  Principal, Dr. L. D. Kadam M.Sc., Ph.D.	"Education Through self help is our Motto" -Karmveer Rayat Shikshan Sanstha's Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burli). Kirloskarwadi Pin-416 308 Tal-Palus, Dist-Sangli Founder - Dr. Karmveer Bhaurao Patil D.Litt.		Jr. Coll. No. J - 22.07.001
	NAAC Accreditation- 'A'	E-mail : ascc_rnagar@ymail.com	STD : 02346) OFFICE : 222035 Resi. : 222009 Fax : 222035
Ref. No. 650 /2021 - 2022		Date. 30 / 12 /2021	

To,

Mr. Rajendra Anant Kumbhar,
B. E. (Electrical),
Expert Trainer

Sub: Invitation as **expert trainer** for practical demonstrations under Short Term Course...

Respected Madam,


It gives us an immense pleasure to invite you to Department of Physics of Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burli) as expert trainer for practical demonstration of Departmental Short Term Course entitled '**Maintenance and repairing of electrical home appliances**'.


We hereby request you to guide our students on maintenance and repair of essential electric home appliance in day to day need.

Thanking you in anticipation.

Yours faithfully


 Coordinator


 Head
 Department of Physics
 Arts, Science & Commerce College,
 Ramanandnagar (Burli)


 Principal,
 Dr. Patangrao Kadam Mahavidyalaya,
 Ramanandnagar (Burli)
 Tal. Palus, Dist. Sangli.

Permission granted





Rayat Shikshan Sanstha's

Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burli)

Department- Physics

Short Term and Value added courses

Year: 2021-22

Notice -03

Dates: 24/12/2021

All the faculty and members of the committee are informed that the short term course committee meeting will hold on 27/12/2021 in department at 04:30pm. to discuss following subject.

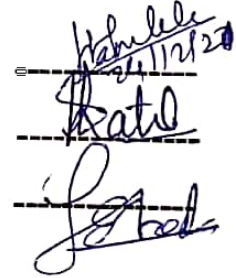
Agenda:

1. Syllabus Completion Review.
2. To discuss mode of conduction of practical and theory exams as per the guidelines of the Karmveer Vidya Prabodhani

Chairman: Ms. N. J. Kamble

Member: Dr. Patil G. R.

Ms. P. K. Bhagywant


24/12/2021

Rayat Shikshan Sanstha's

Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burla)

Department- Physics

Short Term Course

Year: 2021-22

Proceeding of Meeting No.-03

Date: 27/12/2021

Meeting of the committee members was held in the department on 28/12/2021 at 04.30pm. The following discussion was made.

1. Syllabus Completion Review.
2. Discussion is made about the conduction of practical and theory exams as per the guidelines of the Karmveer Vidya Prabodhini, Satara.

Following members were present for the meeting.

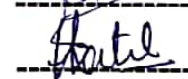
Chairman: Ms. N. J. Kamble

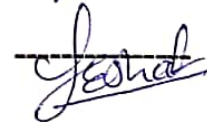
Member: Dr. Patil G. R.

Ms. P. K. Bhagywant

Signature







Rayat Shikshan Sanstha's
Dr. Patnagrao Kadam Mahavidyalaya, Ramanandnagar (Burli)

Department of Physics

Value Added Course Theory Examination 2021-22

“Maintenance and Repairing of Electrical Home Appliances”

Name of the Student :
Date :
Roll No:
Total Marks : 30

Class :
Time : 11:30 to 12:00 pm
PRN:
Marks obtained :

Instructions : 1. Each question carries two marks
2. All questions are mandatory.

1. Which material can be used upto a temperature of 130° C?

- a. Mica
c. Synthetic resin

- b. Cotton
d. All of these

2. What is the purity of electrically graded aluminium?

- a. 95 %
c. 99.5 %

- b. 98.3 %
d. 97.5 %

3. Which among these is the application of universal motors?

- a. Vacuum cleaners
c. Hair dryers

- b. Fans
d. Washing machines

4. What is the use of current transformers?

- a. Stepping up AC current
c. Stepping down AC current

- b. Measuring and protection
d. Both (b) and (c)

5. Rated frequency in India is

- a. 60 Hz
c. 55 Hz

- b. 50 Hz
d. 53 Hz

6. A multimeter is a device which can measure

- a. Resistance
c. Current

- b. Voltage
d. All of the above

7. Which of the following refrigerant widely used in domestic refrigeration?

- a. Neon
c. Ammonia

- b. alcohol
d. Oxygen

8. The heating element in an electric iron is usually made of

- a. brass.
c. nichrome.

- b. iron.
d. platinum.

9. The capacity an air conditioner is expressed in

- a. watt.
- c. kWh.

- b. HP.
- d. tons.

10. Which of the following heating method is generally used in electric iron?

- a. Direct resistance heating.
- c. Dielectric heating.

- b. Indirect resistance heating.
- d. Arc heating.

11. Which part of washing machine actually perform the cleaning operation of cloth clothes?

- a. Drain.
- c. Agitator.

- b. Tub.
- d. Timer.

12. Which type of magnet is used in an electric bell?

- a. Temporary magnet.
- c. Electromagnet.

- b. Permanent magnet.
- d. Carbon magnet.

13. Which of the following device is responsible for production of the cold liquid in a refrigerator?

- a. Compressor.
- c. Evaporator.

- b. Condenser.
- d. Throtting device.

14. Which of the following gas is mainly used inside a electric bulb?

- a. Carbon dioxide gas.
- c. Inert gas.

- b. Hydrogen gas.
- d. Helium gas

15. Which of the following lamp cannot sustain much voltage fluctuations?


- a. Incandescent lamp.
- c. Mercury vapour lamp.

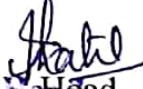
- b. Sodium vapour lamp.
- d. Fluorescent lamp.

SPACE FOR ROUGH WORK

Rayat Shikshan Sanstha's
Dr. Patangrao Kadam Mahavidyalaya , Ramanandnagar (Burli)
Dept. of Physics
Short Term Course
"Maintenance and Repairing of Electrical Home Appliances"
List of students for Year : 2021-22

Sr. No.	Roll. No.	Name of the student	Marks obtained out of 30 (Theory)	Marks obtained out of 50 (Practical)	Marks obtained out of 20 (Oral)	Total Marks Obtained (Out of 100)
1	1922	Chougule Rupali Mahavir	27	48	20	95
2	1923	Gavade Shivani Ganapati	28	47	20	95
3	1924	Mujawar Parwin Hamid	28	48	19	95
4	1925	Jadhav Dhananjay Pandurang	29	48	20	97
5	1928	Kolkar Bistawa Anand	28	48	20	96
6	1929	Salunkhe Anjali Sampatrao	29	48	20	97
7	1930	Shinde Zunzarrao Baburao	26	49	19	94
8	1931	Suryawanshi Shreyas Subhash	28	49	20	97


Coordinator
(Miss. Kamble N.J)


Head
Department of Physics
Dr. Patangrao Kadam Mahavidyalaya,
Ramanandnagar (Burli)

Rayat Shikshan Sanstha's

Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burli)

Department- Physics

Short Term course

Year: 2021-22

Action Report

This course is made mandatory for B.Sc. final year students. For the short term course - **Maintenance and Repairing of Electric Domestic Appliances** the committee was established at the beginning of the year 2021-22. The total 08 students and all faculties of department of physics are involved in this course. This short term course has been run during this academic year in offline mode. The technical information was given to the students by expert Mr. Rajendra Kumbhar . The detailed information about the "Maintenance and Repairing of Electric Domestic Appliances" along with its practical demonstrations was given to the admitted students.


Head,
Department of Physics
Dr. Patangrao Kadam Mahavidyalaya,
Ramanandnagar (Burli)

Rayat Shikshan Sanstha's

Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burli)

Department- Physics

Short Term Course

Year: 2021-22

Experiential feelings

After completion of the short term course- "**Maintenance and Repairs of Electric Domestic Appliances**" and the students admitted to this course got fruitful knowledge about maintenance and repairing of electric appliances. Because of the less information about appliances, people consider their repairing to be a difficult task. The students have been given proper information about this appliances and tricks and techniques to check as well as repairing them.

The handling of the appliances is very easy once we are known to components in the appliance and ways to repair them, therefore it is necessary to know about the working of appliances. This task was achieved by conducting this short term course.



Head,
Department of Physics
Dr. Patangrao Kadam Mahavidyalaya,
Ramanandnagar (Burli)

Rayat Shikshan Sanstha's

Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burli)

Department- Physics

Short Term and Value added courses

Year: 2021-22

Future plan

1. In future we will involve more students in short term course and value added courses. We have also decided to invite the person who is expert about the course.
2. The committee is planned to implement project on repairing of domestic appliances.
3. To create the awareness in the society to save energy by using non-conventional energy resources.


Head,
Department of Physics
Dr. Patangrao Kadam Mahavidyalaya,
Ramanandnagar (Burli)