Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burli)

Department-Physics

Short Term Course

Year: 2022-23

Constitution of Committee

During the academic year 2022-23 The Department of Physics runs the Short Term Course named "Repairing of Electrical Home Appliances" for B.Sc. III students from 2nd September 2022.

Chairman: Ms. N. J. Kamble

Member: Dr. Patil G. R.

Mr. Bhagyawant P. K

Ms. Jamadade B. P.

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Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burli)

Department - Physics

Short Term Course

Maintainence and Repairing of Electrical Home Appliances

(STC)(90 lectures)

Year: 2022-23

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.



Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burli)

Department of Physics

Short Term Course Syllabus

(STC 90 lecture)

2022-23

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

Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burli)

Department- Physics Short Term Course

Year: 2022-23

Annual Planning

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

Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burli)

Department- Physics

Short Term Course – Time Table

Year: 2022-23

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. Bhagyawant P. K Ms. Jamadade B. P
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

Co-ordinator

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Head
Dept. of Physics

Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burli)

Dept. of Physics

Short Term Course

"Maintenance and Repairing of Electrical Home Appliances"

List of students for Year: 2022-23

Sr. No.	Roll. No.	Name of the student	Gender
1	1893	Mr. Galave Anil Manohar	M
2	1894	Ms. Jadhav Prajakta Popat	F
3	1895	Ms. Jamadade Snehlata Mukund	F
4	1896	Mr. Mohite Sahil Anil	M
5	1897	Ms. Patil Nikita Avinash	F
6	1898	Ms. Pawar Priyanka Yelusa	F
7	1899	Mr. Phatak Ashutosh Bhimrao	М
8	1900	Mr. Salunkhe Rahul Lalaso	M
9	1901	Mr. Shikhare Vishwaraj Sanjay	M
10	1902	Mr. Shinde Unmesh Ramdas	M

Coordinator
(Miss. Kamble N.J)

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Dept. of Physics

Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burli) Rayat Shikshan Sanstha's Academic Year 2022-23 Dept. of Physics CLASS B.Sc. III

Short term course- Student Attendance

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	o. Name of the Student	Mr. Galave Anil Manohar	1894 Ms. Jadhav Prajakta Popat	1895 Ms. Jamadade Snehlata Mukund	1896 Mr. Mohite Sahil Anil	1897 Ms. Patil Nikita Avinash	Ms. Pawar Priyanka Yelusa	1899 Mr. Phatak Ashutosh Bhimrao	1900 Mr. Salunkhe Rahul Lalaso	Mr. Shikhare Vishwaraj Sanjay	Mr. Shinde Unmesh Ramdas
	Roll. No.	1893	1894	1895	1896	1897	1898	1899	1900	1901	1902

Sr. No





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4 2 9 Ce-ordinator

Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burli)

Department- Physics

Short Term Course

Year: 2021-22

Notice -01

Date: 11/08/2022

All the faculty and members of the committee are informed that the short term course committee meeting will be held on 13/09/2022 in department at 04:00pm. to discuss following subject.

Agenda:

- 1) Discussion on conduction of short term course during current academic year 2022-23 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

Ms. Jamadade B. P.

Signature

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Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burli)

Department-Physics

Short Term Course

Year: 2022-23

Proceeding of Meeting No.-01

Date: 13/08/2022

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

Ms. Jamadade B. P.

Signature

Bomadade

Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burli)

Department- Physics

Short Term Course

Year: 2022-23

Notice -02

Date: 25/08/2022

All the faculty and members of the committee are informed that the short term course committee meeting will be held on 27/08/2022 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

Ms. Jamadade B. P.

Bomadade

Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burli)

Department- Physics

Short Term Course

Year: 2022-23

Proceeding of Meeting No.-02

Date: 27/08/2022

Meeting of the committee members was held in the department on 27/08/2022 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

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Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burli)

Department-Physics

Short Term and Value added courses

Year: 2022-23

Notice -03

Dates: 18/11/2022

All the faculty and members of the committee are informed that the short term course committee meeting will be held on 18/11/2022 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.

Mr. P. K. Bhagywant

Ms. Jamadade B. P.

Bomadade

Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burli)

Department-Physics

Short Term Course

Year: 2022-23

Proceeding of Meeting No.-03 Date: 16/11/2022

Meeting of the committee members was held in the department on 18/11/2022 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.

Mr. P. K. Bhagywant

Ms. Jamadade B. P.

Signature

Romadade.

Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burli)

Department- Physics

Short Term course

Year: 2022-23

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 2022-23. The total 10 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 infomation about the "Maintenance and Repairing of Electric Domestic Appliances" along with its practical demonstrations was given to the admitted students.

Chairman: Ms. N. J. Kamble

Member: Dr. Patil G. R.

Mr. Bhagyawant P. K

Ms. Jamadade B. P.

John Bornadade

Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burli)

Department- Physics

Short Term Course

Year: 2022-23

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 neccessary to know about the working of appliances. This task was achieved by conducting this short term course.

Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burli)

Department-Physics

Short Term and Value added courses

Year: 2022-23

Future plan

- 1. In future we will involve more students in short term course and value added courses. We hav also decide 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-convetional energy resources.

Chairman: Ms. N. J. Kamble

Member: Dr. Patil G. R.

Ms. P. K. Bhagywant

Ms. Jamadade B. P.

Jeant Bornadade

Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burli)

Department-Physics

Short Term and Value added courses

Year: 2022-23

Exam Notice

Date: 02/12/2022

All B.Sc. III students are hereby informed that practical exam of the **Short**Term Course named "Repairing of Electrical Home Appliances" conducted for B.Sc III Students in the academic year will be conducted in 9th December 2022 and Theory and oral exam will be conducted on 10th December 2022. The attendance is compulsory. The Time table is as given below.

Sr. No	Name of the Exam	Marks	Day and Date	Time		
1.	Practical Exam	50	Friday 9/12/2022	02:00 pm to 5:00 pm		
2.	Theory Exam	30	Saturday 10/12/2022	02:00 pm to 3:30 pm		
3.	Oral exam	20	Saturday 10/12/2022	04:00 pm to 5:00pm		

(Ms. N. J. Kamble)

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(Dr. G. R. Patil) Head

Dr. Patngrao Kadam Mahavidyalaya, Ramanandnagar (Burli)

Department of Physics

Value Added Course Theory Examination 2022-23

"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.

b. Condenser.	
1. Which material can be used upto a temperature of 130° C?	VI C. Evaporatorio Diff. Ham
a. Mica Michael inside a electric budot.	b. Cotton
c. Synthetic resin	d. All of these
d. Helium gas	c. Inert gas.
2. What is the purity of electrically graded aluminium?	
a. 95 % Temotique un agailor de un marenzio ane que	b. 98.3 % and to do do do
c. 99.5 %	d. 97.5 % and messent and and
	c. Mercury vapour lamp.
3. Which among these is the application of universal motors?	
a. Vacuum cleaners	b. Fans WHOUGH ROS 30A92
c. Hair dryers	d. Washing machines
4. What is the use of current transformers?	
a. Stepping up AC current	b. Measuring and protection
c. Stepping down AC current	d. Both (b) and (c)
S.D.A.16	
5. Rated frequency in India is a. 60 Hz	1 5011
a. 60 Hz c. 55 Hz	b. 50 Hz
C. 33 HZ	d. 53 Hz
6. A multimeter is a device which can measure	
	1 77 1
a. Resistance	b. Voltage
c. Current	d. All of the above
7. Which of the following refrigerant widely used in domestic i	refrigeration?
a. Neon	b. alcohol
c. Ammonia	d. Oxygen
8. The heating element in an electric iron is usually made of	
a. brass.	b. iron.
c. nichrome.	d. platinum.
C. IIICIII OIIIC.	u. piatifium.

The capacity an air conditioner is expressed in					
watt. (181) Taganharananan a galayhivadal/ mkWh.	b. HP. d. tons.				
. Which of the following heating method is generally	used in electric iron?				
Direct resistance heating.	b. Indirect resistance heating.				
Dielectric heating.	d. Arc heating.				
1. Which part of washing machine actually perform t					
Drain.	b. Tub.				
Agitator.	d. Timer. mabine and to small				
2. Which type of magnet is used in an electric bell?					
. Temporary magnet.	b. Permanent magnet.				
. Electromagnet.	d. Carbon magnet.				
e. Evaporator.	d. Throtting device.				
14. Which of the following gas is mainly used inside a a. Carbon dioxide gas. c. Inert gas.	electric bulb? b. Hydrogen gas.				
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14. Which of the following gas is mainly used inside a a. Carbon dioxide gas. c. Inert gas. 15. Which of the following lamp cannot sustain much a. Incandescent lamp. c. Mercury vapour lamp.	electric bulb? b. Hydrogen gas. d. Helium gas voltage fluctuations? b. Sodium vapour lamp. d. Fluorescent lamp.				
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Dr. Patangrao Kadam Mahavidyalaya , Ramanandnagar (Burli)

Dept. of Physics

Short Term Course

"Maintenance and Repairing of Electrical Home Appliances"

List of students for Year: 2022-23

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	1893	Mr. Galave Anil Manohar	Ab	Ab	Ab	Ab
2	1894	Ms. Jadhav Prajakta Popat	26	42	17	85
3	1895	Ms. Jamadade Snehlata Mukund	22	43	15	80
4	1896	Mr. Mohite Sahil Anil	28	46	18	92
5	1897	Ms. Patil Nikita Avinash	30	49	19	98
6	1898	Ms. Pawar Priyanka Yelusa	26	45	17	88
7	1899	Mr. Phatak Ashutosh Bhimrao	24	47	18	89
8	1900	Mr. Salunkhe Rahul Lalaso	28	48	19	95

Coordinator
(Miss. Kamble N.J)

O NAME OF THE PARTY OF THE PART

Head
Dept. of Physics



DR. PATANGRAO KADAM MAHAVIDYALAYA, RAMANANDNAGAR (BURLI) Rayat Shikshan Sanstha's



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CERTIFICATE

This is to certify that Mr./Miss./Mrs. Wikita Animash Patil

of B.Sc.III Physics has successfully completed the Short Term Course

"Maintenance and Repairing of Electrical Home Appliances" in the

academic year 2022-23.







Atangrao Kadanridahavidyalaya, Ramanandnagar (Baril) Tal. Pelue, Gist. Sangil.