

Rayat Shikshan Sanstha's

Dr. Patangrao Kadam Mahavidyalaya , Ramanandnagar (Burli)

Department- Physics

Short Term course

Year: 2020-21

Annual Report

This Short Term course is made mandatory for B.Sc. final year students. For the short term course - Maintenance and Repairs of Electric Domestic Appliances and 2020-21. The total 11 students and a team of three faculties of department of physics was involved in this course. This short term course (three months) and value added courses (one month) has been run during this year. The technical information was given to the students. The detailed information about the "Maintenance and Repairs of Electric Domestic Appliances was given to the admitted student.



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

Rayat Shikshan Sanstha's
Arts, Science and Commerce College, Ramanandnagar (Burli)

Department- Physics

Short Term Course

Year: 2020-21

Constitution of Committee

During the academic year 2020-21 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. Raut.V.S.

Dr. Patil G. R.

Kamble
Raut
Patil

Rayat Shikshan Sanstha's

Dr. Patangrao Kadam Mahavidyalaya ,Ramanandnagar (Burli)

Department of Physics

Short Term Course Syllabus

1. How to Handle the Electric Equipments

Maintenance of 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.

Rayat Shikshan Sanstha's
Arts, Science and Commerce College, Ramanandnagar (Burli)
Department- Physics
Short Term Course
Maintainence and Repairing of Electrical Home Appliances
(STC)(90 lectures)

Year: 2020-21

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.

Rayat Shikshan Sanstha's
Arts, Science and Commerce College, Ramanandnagar (Burli)

Department- Physics

Short Term Course

Year: 2020-21

Annual Planning

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


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

Rayat Shikshan Sanstha's

Arts, Science and Commerce College, Ramanandnagar (Burli)

Department- Physics

Short Term Course

Year: 2020-21

Notice -01

Date: 06/08/2020

All the faculty and members of the committee are informed that the short term course committee meeting will be held on 07/08/2020 in department at 04:00pm. to discuss following subject.

Agenda:

- 1) Discussion on conduction of short term course during current academic year 2020-21 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. Raut.V.S.

Dr. Patil G. R.

Signature

Kamble

Raut

Patil

Rayat Shikshan Sanstha's
Arts, Science and Commerce College, Ramanandnagar (Burli)
Department- Physics
Short Term Course
Year: 2020-21

Proceeding of Meeting No.-01

Date: 08/08/2020

Meeting of the committee members was held in the department on 02/08/2020 at 04.00pm. The following findings were made.

- 1) Short term course run by the department of Physics A.S.C. College 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. Raut. V.S.

Dr. Patil G. R.

Signature







Rayat Shikshan Sanstha's

Arts, Science and Commerce College, Ramanandnagar (Burli)

Department- Physics

Short Term Course – Time Table

Year: 2020-21

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	Dr. Raut V. S. Dr. Patil G. R.
2	Saturday	01:40pm to 02:30pm	Theory	Dr. Patil G. R.
		02:30pm to 05:00pm	Practical	Dr. Raut V. S. Miss. N. J. Kamble

Kamble
Co-ordinator

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

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 : 2020-21

Sr. No.	Roll. No.	Name of the student	Gender
1	1906	Chavan Amruta Aravind	F
2	1907	Diwan Rahul Vijay	M
3	1908	Howal Sushant Vijay	M
4	1909	Kamble Nishikant Sanjay	M
5	1910	Lohar Tejashri Siddhu	F
6	1911	Mithari Vijaykumar Sudhakar	M
7	1912	Patil Vaibhav Dinkar	M
8	1913	Patil Vaishnavi Dipak	F
9	1914	Sawant Megha Dinkar	F
10	1915	Tirmare Pratiksha Sharad	F
11	1916	Turai Deepak Ravsaheb	M


Coordinator
(Miss. Kamble N.J)


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

Rayat Shikshan Sanstha's

Arts, Science and Commerce College, Ramanandnagar (Burli)

Department- Physics

Short Term Course

Year: 2020-21

Notice -02

Dates: 15/12/2020

All the faculty and members of the committee are informed that the short term course committee meeting will hold on 16/12/2020 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. Raut. V.S.

Dr. Patil G. R.



Rayat Shikshan Sanstha's
Arts, Science and Commerce College, Ramanandnagar (Burli)

Department- Physics

Short Term Course

Year: 2020-21

Proceeding of Meeting No.-02

Date: 16/12/2020

Meeting of the committee members was held in the department on 16/12/2020 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. Raut.V.S.

Dr. Patil G. R.

Signature



Rayat Shikshan Sanstha's
ARTS, SCIENCE & COMMERCE COLLEGE, Ramanandnagar (Burlii)

Dept. of Physics

Academic Year 20-21

CLASS B.Sc. III YEAR

Short term course- Student attendance

Sr. No	Roll. No.	Name of the Student	Date																								
			23rd Jan 21 (T)	24th Jan 21 (T)	25th Jan 21 (P)	30th Jan 21 (T)	30th Jan 21 (P)	6th Feb 21 (T)	6th Feb 21 (P)	20th Feb 21 (T)	20th Feb 21 (P)	27th Feb 21 (T)	27th Feb 21 (P)	6th Mar 21 (T)	6th Mar 21 (P)	19th Mar 21 (T)	19th Mar 21 (P)	20th Mar 21 (T)	20th Mar 21 (P)	26th Mar 21 (T)	26th Mar 21 (P)	27th Mar 21 (T)	27th Mar 21 (P)	31st Mar 21 (P)			
1	1906	Chavan Amruta Aravind	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	1907	Diwan Rahul Vijay	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	1908	Howal Sushant Vijay	A	P	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P
4	1909	Kamble Nishikant Sanjay	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	1910	Lohar Tejashri Siddhu	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	1911	Mithari Vijaykumar Sudhakar	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	1912	Patil Vaibhav Dinkar	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	1913	Patil Vaishnavi Dipak	A	P	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P
9	1914	Sawant Megha Dinkar	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
10	1915	Tumare Pratiksha Sharad	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
11	1916	Turai Deepak Raysaheb	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

[Signature]
 Co-ordinator

Rayat Shikshan Sanstha's
ARTS, SCIENCE & COMMERCE COLLEGE, Ramanandnagar (Burlji)

Dept. of Physics

Academic Year 20 21-22

CLASS B.Sc. III YEAR

Short term course- Student attendance

Sr. No	Roll. No.	Name of the Student	Date																									
			11th Dec 20 (P)	11th Dec 20 (T)	14th Dec 20 (P)	14th Dec 20 (T)	15th Dec 20 (P)	15th Dec 20 (T)	18th Dec 20 (P)	18th Dec 20 (T)	18th Dec 20 (P)	19th Dec 20 (T)	19th Dec 20 (P)	19th Dec 20 (T)	2nd Jan 21 (T)	2nd Jan 21 (P)	8th Jan 21 (T)	8th Jan 21 (P)	9th Jan 21 (T)	9th Jan 21 (P)	15th Jan 21 (T)	15th Jan 21 (P)	16th Jan 21 (T)	16th Jan 21 (P)	22nd Jan 21 (T)	22nd Jan 21 (P)	23rd Jan 21 (P)	
1	1906	Chavan Amruta Aravind	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	P
2	1907	Diwan Rahul Vijay	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	P
3	1908	Howal Sushant Vijay	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	P
4	1909	Kamble Nishikant Sanjay	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	P
5	1910	Lohar Tejashri Siddhu	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	P
6	1911	Mithari Vijaykumar Sudhakar	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
7	1912	Patil Vaibhav Dinkar	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	P
8	1913	Patil Vaishnavi Dipak	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	P
9	1914	Sawant Megha Dinkar	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	P
10	1915	Tirmare Pratiksha Sharad	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	P
11	1916	Turai Deepak Ravsaheb	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	P

[Signature]
 Co-ordinator

Rayat Shikshan Sanstha's

Arts, Science and Commerce College, Ramanandnagar (Burli)

Department- Physics

Short Term and Value added courses

Year: 2020-21

Notice -03

Dates: 15/03/2021

All the faculty and members of the committee are informed that the short term course committee meeting will hold on 16/03/2021 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. Raut.V.S.

Dr. Patil G. R.

Kamble

Raut

Patil

Rayat Shikshan Sanstha's

Arts, Science and Commerce College, Ramanandnagar (Burli)

Department- Physics

Short Term Course

Year: 2020-21

Proceeding of Meeting No.-03

Date: 17/03/2021

Meeting of the committee members was held in the department on 16/03/2021 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. Raut.V.S.

Dr. Patil G. R.

Signature



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

Department of Physics

Short Term Course Theory Examination 2020-21

“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

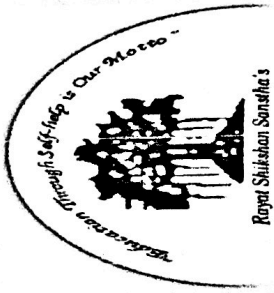
“Maintenance and Repairing of Electrical Home Appliances”

Final Result 2020-21

Sr. No.	Roll. No.	Name of the student	Marks obtained out of 30
1	1906	Chavan Amruta Aravind	30
2	1907	Diwan Rahul Vijay	28
3	1908	Howal Sushant Vijay	26
4	1909	Kamble Nishikant Sanjay	28
5	1910	Lohar Tejashri Siddhu	28
6	1911	Mithari Vijaykumar Sudhakar	26
7	1912	Patil Vaibhav Dinkar	30
8	1913	Patil Vaishnavi Dipak	26
9	1914	Sawant Megha Dinkar	26
10	1915	Tirmare Pratiksha Sharad	28
11	1916	Turai Deepak Ravsaheb	28


Coordinator
(Miss. Kamble N.J)


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



Rayat Shikshan Sanstha's
ARTS, SCIENCE AND COMMERCE COLLEGE,
RAMANANDNAGAR (BURLI)

Tal- Palus, Dist-Sangli

CERTIFICATE

This is to certify that Mr./Miss./Mrs.

of B.Sc.III Physics has successfully completed the Short Term Course
"Maintenance and Repairing of Electrical Home Appliances" in the year

2020-21.

Co-ordinator

Head
Department of Physics.

Principal



Rayat Shikshan Sanstha's

Arts, Science and Commerce College, Ramanandnagar (Burli)

Department- Physics

Short Term and Value added courses

Year: 2020-21

Experiential feelings

After completion of the short term course- "Maintenance and Repairs of Electric Domestic Appliances" and a value added course on Importance of Earthing , the students admitted to this course got fruitful knowledge about maintenance and repairing of electric appliances as well as how on Importance of learning. Because of the less information about appliances, people feel uncomfortable with appliances. The students have given proper information about this appliances to people in the society. All students went home to home and gave the important knowledge regarding the electric appliances.

The handling of the appliances is very easy, therefore it is necessary to know about the appliances. This was achieved by conducting this short term course.