

Rayat Shikshan Sanstha's

**Arts, Science and Commerce College, Ramanandnagar (Burli)**

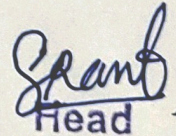
**Department- Physics**

**Short Term and Value added courses**

**Year: 2019-20**

**Annual 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 2020-21. The total 11 students and all faculties of department of physics were involved in this course. This short term course and value added courses has been run during this year. The technical information was given to the students. The detail information about the "Maintenance and Repairing of Electric Domestic Appliances" was given to the admitted student.

  
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: 2019-20**

**Constitution of Committee**

During the academic year 2019-20 the Department of Physics runs the short Term Course named "Repairing of Electrical Home Appliances" for B.Sc. III students.

Rayat Shikshan Sanstha's  
**Arts, Science & Commerce College, 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 of Physics**

**Physics: Short Term Course**

**Maintenance and Repairing of Domestic Electric Appliances**

**Year: 2019-20**

**Objectives**

- ❖ To make availability of self employability
- ❖ To develop confidence for doing job
- ❖ To develop skills required for job.
- ❖ To develop knowledge of domestic equipments.
- ❖ To give the knowledge about the testing of the electric domestic 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

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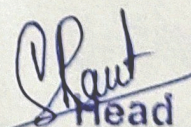
Department- Physics

Short Term Course

Year: 2019-20

Annual Planning

Sr. No.	Month	Particulars
1.	June	
2.	July	To prepare the constitution of the committee and call for the meeting
3.	August	
4.	September	Distribution of the syllabus to concerned faculty.
5.	October	
6.	November	
7.	December	
8.	January	
9.	February	Meeting of the committee about the syllabus completion and arrangement of Exam.
10.	March	Take exam of all students and check the answer sheets.
11.	April	
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: 2019-20**

**Notice -01**

Date: 01/08/2019

All the faculty and members of the committee are informed that the short term course committee meeting will be held on 02/08/2019 in department at 04:00pm. to discuss following subject.

**Agenda:**

- 1) Discussion on conduction of short term course during current academic year 2019-20 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.

Signature

**Chairman:** Ms. Shinde. A.L.

Shinde

**Member:** Dr. Raut. V.S.

Raut

Mr. Bhagyawant P.K.

Bhagyawant P.K.

Mr. Maske. K.D.

Maske

Ms. Shinde. S.N.

Shinde

Mr. Bhosale. R.K.

Bhosale

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

Department- Physics

Short Term Course

Year: 2019-20

Proceeding of Meeting No.-01

Date: 02/08/2019

Meeting of the committee members was held in the department on 02/08/2019 at 04.00pm. The following findings were made.

- 1) Short term course runs 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.Shinde.A.L.

**Member:** Dr. Raut.V.S.

Mr. Bhagyawant P.K.

Mr. Maske. K.D.

Ms. Shinde.S.N.

Mr. Bhosale.R.K .

Signature

Shinde

Raut

Bhagyawant P.K.

Maske

Shinde

Bhosale

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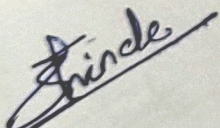
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Department- Physics

Short Term Course – Time Table

Year: 2019-20

Sr. No.	Day	Time	Theory/ Practical	Name of the Teacher
1	Friday	01:40pm to 02:30pm	Theory	Miss. Shinde A.L.
		02:30pm to 05:00pm	Practical	Miss. Shinde A.L. Mr. Maske K. D.
2	Saturday	01:40pm to 02:30pm	Theory	Miss. Shinde A.L.
		02:30pm to 05:00pm	Practical	Miss. Shinde A.L. Mr. Bhagyawant P.K.

  
Co-coordinator

  
Head  
Dept. of Physics



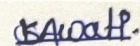
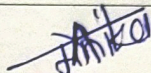
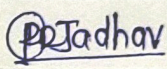
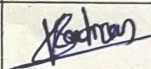

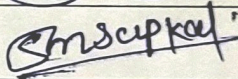
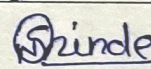
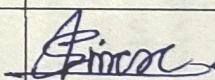
Rayat Shikshan Sanstha's

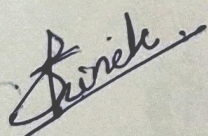
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Dept. of Physics

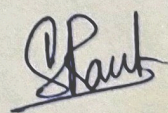
Short Term Course- List of students

Year: 2019-20

Sr. No.	Roll. No.	Name of the student	Sign
1	1904	Awati Kajal Sunil	
2	1905	Jadhav Monika Arun	
3	1906	Jadhav Runali Dhanaji	
4	1907	Padman Vrushali Chandrakant	
5	1908	Bhosale Rohit Kailas	
6	1909	Sapkal Swati Manik	
7	1910	Shinde Shubhangi Nivrutti	
8	1911	Tirmare Satyam Prakash	
9	1858	Gudmani Sunil Ashok	- Ab -
10	1885	Nikam Amruta Vasant	- Ab -



Co-Coordinator



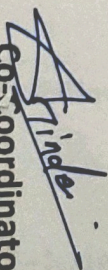
Head  
Dept. of Physics

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

**Dept. of Physics**  
Academic Year 2019-20  
CLASS B.Sc. III YEAR

**Short term course- Student Attendance**

Sr. No	Roll. No.	Name of the Student	Date																								
			6/12/2019	7/12/2019	13/12/2019	14/12/2019	20/12/2019	24/12/2019	27/12/2019	28/12/2019	31/12/2019	4/1/2020	10/1/2020	11/1/2020	17/1/2020	18/1/2020	24/1/2020	25/1/2020	31/1/2020	01/2/2020	07/2/2020	08/2/2020	14/2/2020	15/2/2020	22/2/2020		
1	1904	Awati Kajal Sunil	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	1905	Jadhav Monika Arun	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	1906	Jadhav Runali Dhanaji	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	1907	Padman Vrushali Chandrakant	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	1908	Bhosale Rohit Karilas	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	1909	Sapkal Swati Manik	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	1910	Shinde Shubhangi Nirvriti	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	1911	Timare Satyam Prakash	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	1858	Gudmani Sunil Ashok	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	1885	Nikam Amruta Vasant	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

  
Co-ordinator

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

Department of Physics

Short Term Course Theory Examination 2019-20

**“Maintenance and Repairing of Electrical Home Appliances”**

Name of the Student :

Date :

Roll No:

Total Marks : 20

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  
b. Cotton  
c. Synthetic resin  
d. All of these
2. What is the purity of electrically graded aluminium?
- a. 95 %  
b. 98.3 %  
c. 99.5 %  
d. 97.5 %
3. Which among these is the application of universal motors?
- a. Vacuum cleaners  
b. Fans  
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)
5. Rated frequency in India is
- a. 60 Hz  
b. 50 Hz  
c. 55 Hz  
d. 53 Hz
6. A multimeter is a device which can measure
- a. Resistance  
b. Voltage  
c. Current  
d. All of the above
7. Which of the following refrigerant widely used in domestic 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.

9. The capacity an air conditioner is expressed in
- a. watt. b. HP.  
c. kWh. d. tons.
10. Which of the following heating method is generally used in electric iron?
- a. Direct resistance heating. b. Indirect resistance heating.  
c. Dielectric heating. d. Arc heating.
11. Which part of washing machine actually perform the cleaning operation of cloth clothes?
- a. Drain. b. Tub.  
c. Agitator. d. Timer.
12. Which type of magnet is used in an electric bell?
- a. Temporary magnet. b. Permanent magnet.  
c. Electromagnet. d. Carbon magnet.
13. Which of the following device is responsible for production of the cold liquid in a refrigerator?
- a. Compressor. b. Condenser.  
c. Evaporator. d. Throtting device.
14. Which of the following gas is mainly used inside a electric bulb?
- a. Carbon dioxide gas. b. Hydrogen gas.  
c. Inert gas. d. Helium gas
15. Which of the following lamp cannot sustain much voltage fluctuations?
- a. Incandescent lamp. b. Sodium vapour lamp.  
c. Mercury vapour lamp. d. Fluorescent lamp.

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SPACE FOR ROUGH WORK

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

Department of Physics

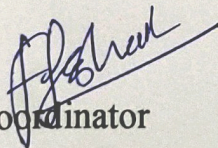
Short Term Course

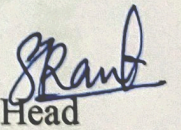
Maintenance And Repair Of Domestic Appliances

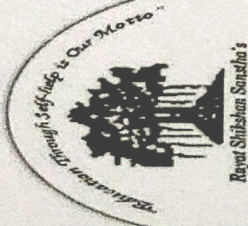
Final Result

2019-20

Roll. No	Name of the student	Theory 20	Practical 30	Total 50	Grand Total 100
1904	Awati Kajal Sunil	18	27	45	90
1905	Jadhav Monika Arun	17	29	46	92
1906	Jadhav Runali Dhanaji	19	25	44	88
1907	Padman Vrushali Chandrakant	15	28	43	86
1908	Bhosale Rohit Kailas	18	26	44	88
1909	Sapkal Swati Manik	15	24	39	78
1910	Shinde Shubhangi Nivrutti	16	29	45	90
1911	Tirmare Satyam Prakash	17	28	45	90
1858	Gudmani Sunil Ashok	19	27	46	92
1885	Nikam Amruta Vasant	20	29	49	98

  
Coordinator

  
Head



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*

*2019-20.*

**Head**  
**Department of Physics.**

**Principal**

**Rayat Shikshan Sanstha's**

**Arts, Science and Commerce College, Ramanandnagar (Burli)**

**Department- Physics**

**Short Term course**

**Year: 2019-20**

**Experiential feelings**

After completion of the short term course- "Maintenance and Repairs of Electric Domestic Appliances" 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.