

*Rayat Shikhan Sanstha's*  
**D. P. Bhosale College, Koregaon**  
**Department of Physics**  
**Short term Course -2022-2023**

**Maintenance and Repairs of Electrical and Domestic  
Appliance (MREDA)**  
**Index**

<b>Sr. No.</b>	<b>Particulars</b>	<b>Page No.</b>
1	Permission Details	2
2	Admission List	6
3	Syllabus(Theory & Practicals)	8
4	Time-Table/ Programme Schedule	10
5	Examination & Result	12
6	Attendance Sheet	15
7	Certificates	19



*Rayat Shikhan Sanstha's*  
**D. P. Bhosale College, Koregaon**  
**Department of Physics**  
**Short term Course -2022-2023**

**Maintenance and Repairs of Electrical and Domestic  
Appliance (MREDA)**

Date :- 01/02/2023

To,  
The Principal,  
D.P. Bhosale college, Koregaon

Subject : - About Short term course


Respected Sir,

The department of Physics is going to run carrier oriented course on  
"Maintenance and Repairs of Electrical and Domestic Appliance (MREDA) "  
in academic year 2022-2023.

The course will be implemented according to University norms.

Thanking you.

Yours faithfully,

  
Head  
Department of Physics.  
**Head**  
Department of Physics  
D. P. Bhosale College, Koregaon

*Rayat Shikhan Sanstha's*  
**D. P. Bhosale College, Koregaon**

**Department of Physics**

**Short term Course -2022-2023**

*Autonomous (Self Financed) Short term certificate course.*  
**Maintenance and Repairs of Electrical Domestic Appliances**

**Objectives of the course –**

- To understand the general safety of electricity.
- Able to Understand the general safety of electrical tools.
- Able to Dismantle & reassemble Electrical home appliances.
- Able to Test & find out the faults in Electrical home appliances.
- Able to Listout common faults, causes & remedies
- Able to Soldering & disordering .
- Able to Identify different electrical & electronic components.
- Able to Repairs Electrical home appliances.

**Outcome of the course -**

- Domestic Appliances Technician
- Home Electric Technician

**Reference Books:-**

1. Study of Electrical Appliances and Devices: K.B.Bhatia.
2. Electrical Appliance: Anwani.
3. Electrical Wiring ,Estimating & Costing : Uppal.
4. Subhod Viduyut shastra : Tribak Waghmare.

5. Domestic Appliances: By DVET Mumbai.
6. Electronics Technology: Soni.

### **Board of Studies-**

1. Dr. V.S.Jamadade
2. Shri. Patil D. M.
3. Shri. Khade M. M.
4. Mr. Kadam. P. K.
5. Miss.Khandare A. B.
6. Mrs. Chavare P. C.
7. Miss. Bhosale M. M.

### **Experts Name -**

1. Shri. Khade M. M. ( D. P. Bhosale College, Koregaon)



  
Head  
Department of Physics  
D. P. Bhosale College, Koregaon

*Rayat Shikhan Sanstha's*  
**D. P. Bhosale College, Koregaon**  
**Department of Physics**

**Short term Course -2022-2023**

*Autonomous (Self Financed) Short term certificate course.*  
**Maintenance and Repairs of Electrical Domestic Appliances**

- |                           |                                                                                                                                                                    |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Eligibility            | : XII std. pass.                                                                                                                                                   |
| 2. Duration of Course     | : 3 Month.                                                                                                                                                         |
| 3. No. of Students        | : 20                                                                                                                                                               |
| 4. Admission fee          | : Rs.- 500 /-(Five hundred )                                                                                                                                       |
| 5. Examination            | : Theory (50 marks),<br>: Practical (40 marks)<br>For Practical- Journal -- 10 marks.<br>: Total 100 marks.                                                        |
| 6. Faculty                | : Dr. V. S. Jamadade<br>: Shri. Patil D. M.<br>: Shri. Khade M. M.<br>: Mr. Kadam. P. S.<br>: Miss. Khandare A.B.<br>: Mrs. Chavare P. C.<br>: Miss. Bhosale M. M. |
| 7. Coordinator            | : Mrs. Chavare P. C.                                                                                                                                               |
| 8. Co-Coordinator         | : Miss. Bhosale M. M.                                                                                                                                              |
| 9. Head of the Department | : Dr. V. S. Jamadade                                                                                                                                               |
| 10. Director              | : Principal, D. P. Bhosale College, Koregaon.                                                                                                                      |

*Rayat Shikhan Sanstha's*  
**D. P. Bhosale College, Koregaon**  
**Department of Physics**

**Short term Course -2022-2023**

**Maintenance and Repairs of Electrical and Domestic  
Appliance (MREDA)**  
**Admission List**

Sr. No.	Class	Roll. No.	Full Name
1	B.Sc-III	222501	More Pratik Dattatray
2	B.Sc-III	222502	Kumbhar Vaishnavi Dnyaneshwar
3	B.Sc-III	222503	Shedge Aruna Narayan
4	B.Sc-III	222504	Jadhav Vaishnavi Sunil
5	B.Sc-III	222505	Ghadge Sanika Sanjay
6	B.Sc-III	222506	Kadam Akanksha Mahesh
7	B.Sc-III	222507	Kadam Akshata Santosh
8	B.Sc-III	222508	Bhosale Pooja Shrikrushna
9	B.Sc-III	222509	Ghadge Vaishnvi Bharat
10	B.Sc-III	222510	Jadhav Pratiksha Dattatray
11	B.Sc-III	222511	Mane Pratiksha Dattatray
12	B.Sc-III	222512	Waghmare Sakshata Krishnakant
13	B.Sc-III	222513	Jagtap Divya Sanjay

14	B.Sc-III	222514	Kore Tejas Sharad
15	B.Sc-III	222515	Yadav Kedar Indrajit
16	B.Sc-III	222516	Nalawade Omkar Mahendra
17	B.Sc-III	222517	Bhosale Sonali Prakash
18	B.Sc-III	222518	Karpe Vishal Mangesh
19	B.Sc-III	222519	Chavan Mahesh Anna
20	B.Sc-III	222520	Ubale Jyotsana Tanaji



*[Signature]*  
**Head**  
 Department of Physics  
 D. P. Bhosale College, Koregaon

*Rayat Shikhan Sanstha's*  
**D. P. Bhosale College, Koregaon**

**Department of Physics**

**Short term Course -2022-2023**

**Maintenance and Repairs of Electrical and Domestic Appliance  
(MREDA)**

**Syllabus (Theory)**

**1. Current Electricity :**

Introduction, Generation of electricity , Types of electricity , effect of electricity, energy sources, EMF, potential difference , current , voltage, resistance , power, energy , Difference between Direct current & alternative current .

**2. Safety Precautions & Common electrical hand tools :-**

Safety precautions-

Electric Shock, Causes of electric shock. Artificial respiration Fire ,Causes of Fire, Types of fire, necessity of earthing.

Electrical Hand Tools:-

Introduction of electrical hand tools-Pliers, screw drivers, connectors , hammers, tester, electrician knife ,wire stripper etc .their specifications-size & numbers. applications & Safety use of holding & cutting tools.

**3. Electric/ Electronic tube light:-**

Introduction of lighting appliances, Circuit diagram of Fluorescent tube with electronic choke & starter, Introduction of CFL lamp, LED lamp or tube, Testing & fault finding with series test lamp ,Repairing, Pricelist

**4. Heating Appliances (Electric Iron /Water Heaters/ Geyser):-**

Introduction, working principle, common faults, causes & remedies, testing & repairs of electric iron, water heater & Geyser.

### 5. Appliances (Electric Fan) :-

Construction, working principle, common faults, causes & remedies, testing & repairs of electric Fan.

### 6. Electric Mixer & food processor:-

Dismantling, reassembling, up keeping, testing & repairs Blender. Dismantling, reassembling, Testing & repair of Juicer & grinder. Dismantling, reassembling, testing, repair of commercial wet grinder. Dismantling, reassembling, up keeping, testing & repairs Mixer / Food Processor- 3/6 speed.

## Syllabus (Practical)

Sr. No.	Title of Experiments
1	To study the common tools and adjustment of common tools
2	To study the common tools and adjustment of common tools
3	Testing, Fault finding and Repairing of electric mixer and food processor
4	Dismantling and Reassembling of electric fans
5	Testing, Fault finding and Repairing of electric fan
6	Testing, Fault finding and Repairing of electric geyser
7	Dismantling and Reassembling of electric mixer and food processor

*Rayat Shikhan Sanstha's*  
**D. P. Bhosale College, Koregaon**  
**Department of Physics**  
**Short term Course -2022-2023**

**Maintenance and Repairs of Electrical and Domestic  
Appliance (MREDA)  
Schedule of the course**

Sr. No.	Day & Date	Time	Title of Experiment	Faculty Name
1	Thursday 09/02/2023	11:00 to 12:00 a:m	Common tools and adjustment of common tools	Shri. Khade M. M.
2	Friday 10/02/2023	11:00 to 12:00 a:m	Current Electricity	Mr. Kadam. P. S.
3	Thursday 16/02/2023	11:00 to 12:00 a:m	To study the common tools and adjustment of common tools	Shri. Khade M. M.
4	Friday 17/02/2023	11:00 to 12:00 a:m	Current Electricity	Mr. Kadam. P. S.
5	Thursday 23/02/2023	11:00 to 12:00 a:m	Testing, Fault finding and Repairing of electric mixer and food processor	Shri. Khade M. M.
6	Friday 24/02/2023	11:00 to 12:00 a:m	Safety Precautions & Common electrical hand tools	Miss. Khandare A.B.
7	Thursday 02/03/2023	11:00 to 12:00 a:m	Dismantling and Reassembling of electric fans	Shri. Patil D. M.
8	Friday 03/03/2023	11:00 to 12:00 a:m	Safety Precautions & Common electrical hand tools	Miss. Khandare A.B.
9	Thursday 09/03/2023	11:00 to 12:00 a:m	Testing, Fault finding and Repairing of electric fan	Shri. Patil D. M.
10	Friday	11:00 to 12:00 a:m	Electric/ Electronic tube light	Mrs. Chavare P. C.

	10/03/2023			
11	Thursday 16/03/2023	11:00 to 12:00 a:m	Testing, Fault finding and Repairing of electric geyser	Shri. Patil D. M.
12	Friday 17/03/2023	11:00 to 12:00 a:m	Electric/ Electronic tube light	Mrs. Chavare P. C.
13	Thursday 23/03/2023	11:00 to 12:00 a:m	Dismantling and Reassembling of electric mixer and food processor	Shri. Patil D. M.
14	Friday 24/03/2023	11:00 to 12:00 a:m	Heating Appliances (Electric Iron /Water Heaters/ Geyser)	Miss. Bhosale M. M.
15	Friday 31/03/2023	11:00 to 12:00 a:m	Heating Appliances (Electric Iron /Water Heaters/ Geyser)	Miss. Bhosale M. M.
16	Thursday 06/04/2023	11:00 to 12:00 a:m	Appliances (Electric Fan)	Dr. V. S. Jamadade
17	Thursday 13/04/2023	11:00 to 12:00 a:m	Appliances (Electric Fan)	Dr. V. S. Jamadade
18	Thursday 20/04/2023	11:00 to 12:00 a:m	Electric Mixer & food processor	Dr. V. S. Jamadade
19	Friday 21/04/2023	11:00 to 12:00 a:m	Electric Mixer & food processor	Dr. V. S. Jamadade
20	04/05/2023	11:00 to 12:00 a:m	Offline Examinations	



*[Signature]*  
**Head**  
 Department of Physics  
 D. P. Bhosale College, Koregaon

Rayat Shikshan Sanstha's

**D P Bhosale College, Koregaon**

**SHORT TERM COURSE**

**Department of Physics**

**Question Paper- Theory**

**Marks -50**

**Name of Course :- Maintenance & Repairs of electrical Domestic Appliances**

**Theory Exam - 2022-23**

**Date:- 04/05/2023**

**Time:- 11:00 to 12:00 a.m**

**Que. 1 : A) Fill in the Blanks.**

**(5)**

- 1) \_\_\_\_\_ is good conducting material.
- 2) \_\_\_\_\_ Material used for heating element .
- 3) In electrical appliances \_\_\_\_\_ used for temperature control.
- 4) \_\_\_\_\_ voltage used for domestic wiring.
- 5) \_\_\_\_\_ Gas is filled in electric tube-light.

**B) Match the Following.**

**(5)**

**A' Group**

**B' Group**

A)Sole plate

1) Conductor

B)Choke

2) Insulator

C)Heating Chamber

3) Fuse Material

D)Nickel-Cromium

4) Geyser

E)Ebonite

5) Fluorecent Tube Light

6) Electric Iron

**Que.2 : Write in Brief (Any Four).**

**(40)**

- 1) Write construction of electric Iron.
- 2) Write Five conducting Materials with application.
- 3) Write Five Insulating Materials with application.
- 4) Explain Atomic structure .
- 5) Write sources of energy.
- 6) Write construction of Table Fan.

**Rayat Shikshan Saustha's**  
**D P Bhosale College ,Koregaon**

**SHORT TERM COURSE**

**Maintenance & Repairs of electrical Domestic Appliances**

**Theory Exam-2022-23**

**MARKLIST**

<b>Sr.No</b>	<b>Roll No.</b>	<b>Name of Student</b>	<b>Result</b>	<b>Grade</b>
1	222501	More Pratik Dattatray	PASS	B
2	222502	Kumbhar Vaishnavi Dnyaneshwar	PASS	A
3	222503	Shedge Aruna Narayan	PASS	A
4	222504	Jadhav Vaishnavi Sunil	PASS	A
5	222505	Ghadge Sanika Sanjay	PASS	A
6	222506	Kadam Akanksha Mahesh	PASS	A
7	222507	Kadam Akshata Santosh	PASS	A
8	222508	Bhosale Pooja Shrikrushna	PASS	A
9	222509	Ghadge Vaishnavi Bharat	PASS	A
10	222510	Jadhav Pratiksha Dattatray	PASS	A
11	222511	Mane Pratiksha Dattatray	PASS	A
12	222512	Waghmare Sakshata Krishnakant	PASS	A
13	222513	Jagtap Divya Sanjay	PASS	A
14	222514	Kore Tejas Sharad	PASS	B
15	222515	Yadav Kedar Indrajit	PASS	B
16	222516	Nalawade Omkar Mahendra	PASS	B

17	222517	Bhosale Sonali Prakash	PASS	A
18	222518	Karpe Vishal Mangesh	PASS	B
19	222519	Chavan Mahesh Anna	PASS	B
20	222520	Ubale Jyotsana Tanaji	PASS	A



  
 Head  
 Department of Physics  
 J. P. Bhosale College, Koregaon

*Royal Shikshan Sanstha's*

**D P Bhosale College ,Koregaon**

## SHORT TERM COURSE

## Maintenance and Repairing of Electrical and Home Appliances

## ATTENDANCE SHEET

[illegible]

9	222509	Ghadge Vaishnvi Bharat	<u>Vghadoge</u>	<u>Vghadoge</u>	<u>Vghadoge</u>	<u>Vghadoge</u>	<u>Vghadoge</u>	<u>Vghadoge</u>	<u>Vghadoge</u>	<u>Vghadoge</u>	<u>Vghadoge</u>	<u>Vghadoge</u>	<u>Vghadoge</u>
10	222510	Jadhav Pratiksha Dattatray	<u>Jadhav</u>	<u>Jadhav</u>	<u>Jadhav</u>	<u>Jadhav</u>	<u>Jadhav</u>	<u>Jadhav</u>	<u>Jadhav</u>	<u>Jadhav</u>	<u>Jadhav</u>	<u>Jadhav</u>	<u>Jadhav</u>
11	222511	Mane Pratiksha Dattatray	<u>Pmane</u>	<u>Pmane</u>	<u>Pmane</u>	<u>Pmane</u>	<u>Pmane</u>	<u>Pmane</u>	<u>Pmane</u>	<u>Pmane</u>	<u>Pmane</u>	<u>Pmane</u>	<u>Pmane</u>
12	222512	Waghmare Sakshata Krishnakant	<u>Skwaghmare</u>	<u>Skwaghmare</u>	<u>Skwaghmare</u>	<u>Skwaghmare</u>	<u>Skwaghmare</u>	<u>Skwaghmare</u>	<u>Skwaghmare</u>	<u>Skwaghmare</u>	<u>Skwaghmare</u>	<u>Skwaghmare</u>	<u>Skwaghmare</u>
13	222513	Jagtap Divya Sanjay	<u>@jagtap</u>	<u>@jagtap</u>	<u>@jagtap</u>	<u>@jagtap</u>	<u>@jagtap</u>	<u>@jagtap</u>	<u>@jagtap</u>	<u>@jagtap</u>	<u>@jagtap</u>	<u>@jagtap</u>	<u>@jagtap</u>
14	222514	Kore Tejas Sharad	<u>T.S.K</u>	<u>T.S.K</u>	<u>T.S.K</u>	<u>T.S.K</u>	<u>T.S.K</u>	<u>T.S.K</u>	<u>T.S.K</u>	<u>T.S.K</u>	<u>T.S.K</u>	<u>T.S.K</u>	<u>T.S.K</u>
15	222515	Yadav Kedar Indrajit	<u>Yadav</u>	<u>Yadav</u>	<u>Yadav</u>	<u>Yadav</u>	<u>Yadav</u>	<u>Yadav</u>	<u>Yadav</u>	<u>Yadav</u>	<u>Yadav</u>	<u>Yadav</u>	<u>Yadav</u>
16	222516	Nalawade Omkar Mahendra	<u>Nalawade</u>	<u>Nalawade</u>	<u>Nalawade</u>	<u>Nalawade</u>	<u>Nalawade</u>	<u>Nalawade</u>	<u>Nalawade</u>	<u>Nalawade</u>	<u>Nalawade</u>	<u>Nalawade</u>	<u>Nalawade</u>
17	222517	Bhosale Sonali Prakash	<u>Bhosale</u>	<u>Bhosale</u>	<u>Bhosale</u>	<u>Bhosale</u>	<u>Bhosale</u>	<u>Bhosale</u>	<u>Bhosale</u>	<u>Bhosale</u>	<u>Bhosale</u>	<u>Bhosale</u>	<u>Bhosale</u>
18	222518	Karpe Vishal Mangesh	<u>Karpe</u>	<u>Karpe</u>	<u>Karpe</u>	<u>Karpe</u>	<u>Karpe</u>	<u>Karpe</u>	<u>Karpe</u>	<u>Karpe</u>	<u>Karpe</u>	<u>Karpe</u>	<u>Karpe</u>
19	222519	Chavan Mahesh Anna	<u>MChavan</u>	<u>MChavan</u>	<u>MChavan</u>	<u>MChavan</u>	<u>MChavan</u>	<u>MChavan</u>	<u>MChavan</u>	<u>MChavan</u>	<u>MChavan</u>	<u>MChavan</u>	<u>MChavan</u>
20	222520	Ubale Jyotsana Tanaji	<u>Ubale</u>	<u>Ubale</u>	<u>Ubale</u>	<u>Ubale</u>	<u>Ubale</u>	<u>Ubale</u>	<u>Ubale</u>	<u>Ubale</u>	<u>Ubale</u>	<u>Ubale</u>	<u>Ubale</u>



**D P Bhosale College ,Koregaon**

## Maintennance of Electical Home Appliances

[illegible]

9	22509	Ghadge Vaishnvi Bharat	<u>Ghadge</u>	<u>Ghadge</u>	<u>Ghadge</u>	<u>Ghadge</u>	<u>Ghadge</u>	<u>Ghadge</u>	<u>Ghadge</u>	<u>Ghadge</u>	<u>Ghadge</u>
10	22510	Jadhav Pratiksha Dattatray	<u>Jadhav</u>	<u>Jadhav</u>	<u>Jadhav</u>	<u>Jadhav</u>	<u>Jadhav</u>	<u>Jadhav</u>	<u>Jadhav</u>	<u>Jadhav</u>	<u>Jadhav</u>
11	22511	Mane Pratiksha Dattatray	<u>Mane</u>	<u>Mane</u>	<u>Mane</u>	<u>Mane</u>	<u>Mane</u>	<u>Mane</u>	<u>Mane</u>	<u>Mane</u>	<u>Mane</u>
12	22512	Waghmare Sakshata Krishnakant	<u>Skwaghmare</u>	<u>Skwaghmare</u>	<u>Skwaghmare</u>	<u>Skwaghmare</u>	<u>Skwaghmare</u>	<u>Skwaghmare</u>	<u>Skwaghmare</u>	<u>Skwaghmare</u>	<u>Skwaghmare</u>
13	22513	Jagtap Divya Sanjay	<u>Jagtap</u>	<u>Jagtap</u>	<u>Jagtap</u>	<u>Jagtap</u>	<u>Jagtap</u>	<u>Jagtap</u>	<u>Jagtap</u>	<u>Jagtap</u>	<u>Jagtap</u>
14	22514	Kore Tejas Sharad	<u>T.S.K</u>	<u>T.S.K</u>	<u>T.S.K</u>	<u>T.S.K</u>	<u>T.S.K</u>	<u>T.S.K</u>	<u>T.S.K</u>	<u>T.S.K</u>	<u>T.S.K</u>
15	22515	Yadav Kedar Indrajit	<u>Kedary</u>	<u>Kedary</u>	<u>Kedary</u>	<u>Kedary</u>	<u>Kedary</u>	<u>Kedary</u>	<u>Kedary</u>	<u>Kedary</u>	<u>Kedary</u>
16	22516	Nalawade Omkar Mahendra	<u>Nalawade</u>	<u>Nalawade</u>	<u>Nalawade</u>	<u>Nalawade</u>	<u>Nalawade</u>	<u>Nalawade</u>	<u>Nalawade</u>	<u>Nalawade</u>	<u>Nalawade</u>
17	22517	Bhosale Sonali Prakash	<u>Bhosale</u>	<u>Bhosale</u>	<u>Bhosale</u>	<u>Bhosale</u>	<u>Bhosale</u>	<u>Bhosale</u>	<u>Bhosale</u>	<u>Bhosale</u>	<u>Bhosale</u>
18	22518	Karpe Vishal Mangesh	<u>Karpe</u>	<u>Karpe</u>	<u>Karpe</u>	<u>Karpe</u>	<u>Karpe</u>	<u>Karpe</u>	<u>Karpe</u>	<u>Karpe</u>	<u>Karpe</u>
19	22519	Chavan Mahesh Anna	<u>Chavan</u>	<u>Chavan</u>	<u>Chavan</u>	<u>Chavan</u>	<u>Chavan</u>	<u>Chavan</u>	<u>Chavan</u>	<u>Chavan</u>	<u>Chavan</u>
20	22520	Ubale Jyotsana Tanaji	<u>Ubale</u>	<u>Ubale</u>	<u>Ubale</u>	<u>Ubale</u>	<u>Ubale</u>	<u>Ubale</u>	<u>Ubale</u>	<u>Ubale</u>	<u>Ubale</u>





Rayat Shikshan Sanstha's

**D. P. BHOSALE COLLEGE, KOREGAON**



**SHORT TERM COURSE**

**Certificate**

This is to certify that Mr./Miss..U.b.a.l.e... Jyotsana..Tangaji.....

CLASS : ...B.Sc.-III.....SUBJECT....Physics.....

has successfully completed three months "SHORT TERM COURSE" in

Maintenance...& Repairs...of...Electrical...&...Domestic...Appliances..(M.R.E.P.A)

From ...2022..... to ....2023..... and obtained .....A..... Grade.

  
Chairman

  
Course Co-ordinator

  
PRINCIPAL,  
D. P. Bhosale College,  
Koregaon.  
Principal



Rayat Shikshan Sanstha's

**D. P. BHOSALE COLLEGE, KOREGAON**



**SHORT TERM COURSE**

## **Certificate**

This is to certify that Mr./Miss..Bhosale...Sonali...Prakash.....

CLASS : ..B.Sc.-III.....SUBJECT....Physics.....


has successfully completed three months **"SHORT TERM COURSE"** in

Maintenance...&...Repairs...of...Electrical...&...Domestic...Appliances...(M.R.P.A.).

From ...2022..... to .....2023..... and obtained .....A..... Grade.

  
Chairman

  
Course Co-ordinator

  
**PRINCIPAL,**  
D. P. Bhosale College,  
Koregaon.  
Principal



Rayat Shikshan Sanstha's

**D. P. BHOSALE COLLEGE, KOREGAON**  
**SHORT TERM COURSE**



**Certificate**

This is to certify that Mr./Miss..More....Pratik..Dattatray.....

CLASS : ...B.Sc. - III

SUBJECT.....Physics.....

has successfully completed three months **"SHORT TERM COURSE"** in

Maintenance & Repairs of Electrical & Domestic Appliances (M.R.E.D.A.)

From ...2022..... to .....2023..... and obtained .....B..... Grade.

  
Chairman

  
Course Co-ordinator

  
PRINCIPAL,  
D. P. Bhosale College,  
Koregaon.  
Principal



Rayat Shikshan Sanstha's

**D. P. BHOSALE COLLEGE, KOREGAON**



**SHORT TERM COURSE**

**Certificate**

This is to certify that Mr./Miss..Kadam....Akshata....Santosh.....

CLASS : ...B.Sc-III.....SUBJECT...Physics.....

has successfully completed three months "SHORT TERM COURSE" in  
Maintenance & Repairs of Electrical & Domestic Appliances (MREDA)

From ...2022- to ....2023..... and obtained .....A..... Grade.

  
Chairman

  
Course Co-ordinator

  
PRINCIPAL,  
D. P. Bhosale College,  
Koregaon,  
Principal



Rayat Shikshan Sanstha's



**D. P. BHOSALE COLLEGE, KOREGAON**

**SHORT TERM COURSE**

## **Certificate**

This is to certify that Mr./Miss...Kumbhar...Vaishnavi...Dnyaneshwar.....

CLASS : ...B.Sc. - III.....SUBJECT.....Physics.....

has successfully completed three months **"SHORT TERM COURSE"** in

Maintenance & Repairs of Electrical & Domestic Appliance (MREDA)

From ...2022..... to ....2023..... and obtained .....A..... Grade.

  
Chairman

  
Course Co-ordinator

  
**PRINCIPAL,**  
D. P. Bhosale College,  
Koregaon.  
Principal