

T.Y.B.SC.
Short-term course:-
“Maintenance and
Repair of Electrical
Domestic Appliances”



Rayat Shikshan santha's
S.S.G.M College, Kopargaon
Short term course 2020-21

“Maintenance and Repair of Electrical Domestic”

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Rayat Shikshan Sanstha's

**Shri Sadguru Gangageer Maharaj Science, Gautam Arts & Sanjivani
Commerce College, Kopargaon
Dist. Ahmednagar (M.S.) 423601**

**Internal Quality Assurance Cell
(IQAC)**

Syllabus Approval Letter

The IQAC committee has approved the submitted syllabus of short term/ COC courses planned to be conducted by the Department of Electronic Science.

Sr. No.	Name of the Course	Type of the Course
1	Maintenance and Repair of Electrical Domestic Appliances	Short term course

.Head of Department of Electronic Science may proceed accordingly.

Date: 25-6-2018

Place: Kopargaon


IQAC-Co Ordinator
S.S.G.M. College, Kopargaon

**Rayat Shikshan Sanstha's
Shri Sadguru Gangageer Maharaj Science, Gautam arts &
Sanjivani Commerce College, Kopargaon
Dist .Ahemdanagar (M.S) 423601**

Department of Electronic Science

Short Term Course

Department of Electronic Science has decided to start short term course entitled "Maintenance and Repair of Electrical Domestic Appliances". For framing the syllabus of course, committee was constituted as follow.

- 1) Miss. Londhe A.S (Head and Members)
- 2) Miss. Bhagure R.S. (Member)
- 3) Miss. Lohate S.V. (Member)
- 4) Miss. Dokhe P.G. (Member)





Rayat Shikshan Sanstha's

Sadguru Gangageer Maharaj Science ,Gautam Arts and Sanjivani Commerce
College ,Kopargaon Dist:A.nagar-423601

Department of Electronic Science
2019-20

Maintenance and Repair Electrical Domestic Appliances
Board of Studies (BOS)

Department of Electronic Science have decided to start Certificate Course in
Maintenance and Repair Electrical Domestic Appliances for framing the
Syllabus of said course, committee was constituted as follow.

Board of Studies Member (BOS)

- | | |
|--------------------------|-----------|
| 1. Prin. Dr. Thopte S.S. | :Chairman |
| 2. Bagul A E | :HOD |
| 3. Londhe A S | :Member |
| 4. Bhagure R S | :Member |
| 5. Lohate S V | :Member |
| 6. Malik K S | :Member |



S.S.G.M College Kopargaon
Department of electronic science
Class- T.Y.B.Sc
Short Term Course :- Maintenance and Repair of Electrical
Domestic Appliances
Credits :- 3

Syllbus

Aim of course :-

To enable the B.Sc Electronic science student to

1. Understand the working principle and construction of common domestic appliances.
2. Know the causes of fault in these application.
3. Acquire skill for testing and repair of the appliances

Skills and Opportunities :-

The student will get basic knowledge of Electrical domestic Appliances and different electronics components .The students will get Familiar with basic principles of Microwave oven, refrigerator, Electric fan and Electrical water purifier from this course students will becomes more eligible to work in all type of research and industrial laboratories in the future it will also help them for getting employment.

Theory Topics (3Credit)- 3 month

Maintenance and Repair of Electrical Domestic Appliances

Unit 1 ELECTRIC WATER PURIFIER

1. Introduction : Introduction of electric purifier
2. Construction : Construction of electric water purifier
3. Working principle: Working principle of electric water purifier
4. Common Faults: Common Faults in Electric Water Purifier, causes, testing & Repairing procedure



5. Routine maintains : Routine maintains and its procedure

Unit 2 :MICROWAVE OVEN

1. Introduction : Introduction Microwave Oven
2. Construction : Construction of Microwave Oven
3. Working principle: Working principle of Microwave Oven
4. Applications : Various Application of Microwave Oven

Unit 3: ELECTRICAL FANS

1. Introduction : Introduction of Electrical Fans
2. Types : Types of fans – a) Table Fan
b) Ceiling Fan
c) Exhaust Fan
d) Pedestal fan
e) Cabin Fan
3. Construction : List of Main parts for each fan i.e. a) motor fan b) blades
c) canopy d) regulators

Specific parts : a) Oscillating mechanism b) stand c) down rod d) capacitors e)
base diagram of each part

4. Working Principle : Working Principle of each fan along with circuit diagrams and working of fan
5. Special characteristic: Special characteristics and application of each type of fan
6. Common faults , testing and repair over hauling and maintains: List of common faults , their causes and remedies

Repairing procedure for all type of fans.

Testing of motor , capacitor, regulator with the help of series test lamp or multimeter.

Overholing procedure for all type of fan. Precautions while handling fans.

7. Speed control : Speed control of fan



8. Installation : Installation of exhaust and ceiling fan.

Unit 4. REFRIGERATORS : Introduction , Construction , Working principal, and application of Refrigerator.

List of Reference Book

1. Basic Electrical Engineering- M.L.Anwani
2. Study of Electrical Domestic Appliances –K.B.Bhatia
3. Electrical Wiring , Estimating and Costing- S.L.Uppal
4. Electric Appliances –I.M.Anwani
5. Electrical motor Rewinding and Repaire – M.L.Anwan

Practical's

1. Dismantling & reassembling testing fault finding & Repaire of electric water purifier
2. Study of Microwave oven
3. 3. Dismantling & Reassembling of Electric Fans – a) Ceiling b) Exhaust c) Cabin
4. Testing fault finding repair of Electric fans - a) Ceiling b) Exhaust c) Cabin
5. Dismantling & reassembling of Washing Machine
6. Testing , Fault finding and repairing Washing Machine



Rayat Shikshan Sanstha's
SSGM College, Kopargaon
Department of Electronic science
Class- T. Y. B.Sc.
2020-2021

**Short Term Course- Maintenance and Repair of Electrical
Domestic"**

Notice

Date: 05/01/2021

All Students of T.Y. B.Sc. Class who have enrolled for Short Term Course "Maintenance and Repair of Electrical Domestic" will have their lectures from 01-02-2021 at 2.30 pm. The attendance to the lectures are compulsory.

Venue: Hall No. :- A-219

Course Co-ordinator, 



Head 
HEAD
Department of Electronic Sci.
S.S.G.M. College, Kopargaon

Rayat Shikshan Sanstha's
SSGM College, Kopargaon
Department of Electronics science,


Class: T. Y. B.Sc.

2020-21

Date- 18/01/2021

**Short Term Course- Maintenance and Repair of Electrical
Domestic Appliances**
Meeting Notice

Department of Electronics Science has decided to conduct a short term course in Maintenance and Repair of Electrical Domestic Appliances for T.Y.B.Sc. Students, the syllabus and working hours have been discussed and a complete programme has been prepared. Following members are requested to attend the meeting for the implementation of these academic year 2020-2021. The meeting will be held in Department of Electronic Science.


Course Co-ordinator,
Londhe .A.S




HEAD
Dept. of Electronic Sci
S.S.G.M College, Kopargaon.
Department of Electronic Science

Committee Members:

1. Prof. Londhe.A.S 
2. Prof. Lohate.S.V 
3. Prof. Dokhe.P.G 
4. Prof. Bhagure.R.S 

Rayat Shikshan Sanstha's
SSGM College, Kopargaon
Department of Electronic science Class: T.Y. B.Sc.

Date: 18/01/2021

Short Term Course- Maintenance and Repair of Electrical Domestic Appliances

Minutes of Meeting

The meeting of the Short Term Course Committee has been conducted on 18/01/2021 at Department of Electronic science. In the meeting the following resolutions and decisions were made:

1. It was decided to revise the syllabus of Short term Course- A Certificate Course in **Maintenance and Repair of Electrical Domestic Appliances**.
2. For conducting the course the complete program of Theory and Practical's was designed.
3. As per the requirements of completion of the syllabus of the short term course the working hours were decided.



Course Co-ordinator,



HEAD
Dept. of Electronic Sci.
S.S.G.M. College, Kopargaon

“Maintenance and Repair of Electrical Domestic”

(Skill Development Course)

2020-21

Co-ordinate by :	Department of Electronic Science
Class:	T. Y. B. Sc.
Batch Capacity:	20
No. of students Admitted:	04
Duration of the course:	3 Months
Fee of Course:	Free
Lecture and Practical started:	February ,March and April.
Tentative date of Examination:	2 st week of March
Tentative date of examination:	3 nd week of March
Syllabus:	3 credits (Theory+ Practical's).

Co-ordinator:



Head

HEAD

Department of Electronic Science
S.S.G.M.College,Kopargaon

SSGM College Kopargaon

Dist: Ahmednagar





2020-2021

Rayat Shikshan Sanstha's
S.S.G.M. College, Kopargaoon
Dist: Ahmednagar.



Short term Course- Admission form

Name	Shaikh Rozmin Shah
Class	T.Y. BSC
Address	Alp Ravanda, Tal. Kopargaoon.
Mobile No	7620121438

To,
The Principle,
SSGM College, Kopargaoon, Dist: Ahmednagar.

**Sub: Request to an admission in the following short term course
"Maintenance and Repair of Electrical Domestic Appliances"**

Respected sir,

I, the undersigned have been admitted in T.Y.B.Sc Electronic Science class in our college, I wish to complete above short term course run by our college.

Kindly do me a favour by granting admission

Yours Faithfully

Sign: Shaikh R.F

Name: Shaikh Rozmin

Recommended for an admission in the short term course.

Chairman
Short term Course

Course Co-ordinator



HEAD
Dept. of Electronic Sci.
S.S.G.M. College, Kopargaoon



2020-2021

Rayat Shikshan Sanstha's
S.S.G.M. College, Kopargaon
Dist: Ahmednagar.



Short term Course- Admission form

Name	Dawange Sanjeshwari Pyryanethwari
Class	T.Y. B.Sc
Address	A.P. Ravnada, Tal- Kopargaon.
Mobile No	

To,
The Principle,
SSGM College, Kopargaon, Dist: Ahemednagar.

**Sub: Request to an admission in the following short term course
"Maintenance and Repair of Electrical Domestic Appliances"**

Respected sir,

I, the undersigned have been admitted in T.Y.B.Sc Electronic Science class in our college, I wish to complete above short term course run by our college.

Kindly do me a favour by granting admission

Yours Faithfully

Sign: *Dawange*

Name: Dawange Sanjeshwari

Recommended for an admission in the short term course.

[Signature]
Chairman
Short term Course

[Signature]
Course Co-ordinator



[Signature]
HEAD
Dept. of Electronic Sci
S.S.G.M. College, Kopargaon
H.O.D

Electronic science

S.S.G.M COLLEGE, KOPARGAON
DEPARTMENT OF ELECTRONIC SCIENCE
SHORT TERM COURSE -2020-21
STUDENT LIST

SEAT NO	STUDENT NAME
01	Bhot sayali sunil
02	Dawange sanjeswa Dnyaneshwar
03	Khilari Arti
04	Shaikh Rozmin Inus



CORURSE CO-ORDINATOR





HEAD
Dept. of Electronic Sci.
S.S.G.M. College, Kopergaon

HEAD OF DEPARTMENT

Rayat Shikshan Sanstha's
SSGM College, Kopargaon
Short term Course – Maintenance and Repair of Electrical
Domestic Appliances
Class: T.Y.B.Sc.
2020-21
List of Enrolled Students

Sr. No	Name of Students	Sign
1	Bhot sayali sunil	<i>Bhot</i>
2	Dawange sanjeswa Dnyaneshwar	<i>Dawange</i>
3	Khilari Arti B	<i>Khilari.A.B</i>
4	Shaikh Rozmin Inus	<i>shaikh. R.F</i>



@lanet
HEAD
Dept. of Electronic Sci.
S.S.G.M. College, Kopargaon.

Rayat Shikshan Sanstha's

SSGM College ,Kopargaon

**Short Term Course – Maintenance and Repair of Electrical
Domestic Appliances**

Class:-T.Y.B.Sc(Electronics Science)

Time table:- 2020-2021

February 2021

Monday (Theory)	Tuesday (Theory)	Wednesday (Theory)
01/02/21(ASL)	02/02/21(ASL)	03/02/21(SVL)
08/02/21 (PGD)	09/02/21 (PGD)	10/02/21 (PGD)
15/02/21(RSB)	23/02/21(RSB)	17/02/21(RSB)
22/02/21 (ASL)	-	24/02/21(SVL)

March 2021

Monday (Theory)	Tuesday (Theory)	Wednesday (Theory)
01/03/2021(SVL)	02/03/2021(ASL)	03/03/2021(ASL)
08/03/2021(ASL)	09/03/2021(PGD)	10/03/2021(PGD)
22/03/2021(RSB)	23/03/2021(RSB)	17/03/2021(SVL)

April 2021

Monday (Practical)	Tuesday (Practical)	Wednesday (Practical)
05/04/2021 (SVL)	06/04/2021(ASL)	7/04/2021 (ASL)
19/04/2021 (PGD)	20/04/2021 (RSB)	28/04/2021(RSB)
21/04/2021(ASL)	27/04/2021(ASL)	-



(Signature)
HEAD
Dept.of Electronic Sci
S.S.G.M.College,Kopargaon

Rayat Shikshan Sanstha's

SSGM College, Kopargaon

Short term Course: Maintenance and Repair of Electrical
Domestic Appliances

Class: T.Y.B.Sc. Attendance: 2020-21

Sr No	Name of Students	Date:					
		1/02/21	2/02/21	3/02/21	8/2/21	9/2/21	10/02/21
1	Bhot sayali Sunil	A	P	P	P	P	P
2	Dawange sanjeswa Dnyaneshwar	P	P	P	P	P	P
3	Khilari Arti	A	A	A	P	A	P
4	Shaikh Rozmin Inus	P	P	P	P	P	P

r No	Name of Students	Date:					
		15/02/21	23/2/21	17/02/21	22/2/21	24/02/21	-
1	Bhot sayali Sunil	P	P	P	P	A	
2	Dawange sanjeswa Dnyaneshwar	P	P	P	P	A	
3	Khilari Arti	A	A	A	A	P	
4	Shaikh Rozmin Inus	P	P	P	P	P	



Rayat Shikshan Sanstha's
SSGM College, Kopargaon

**Short term Course: Maintenance and Repair of Electrical
Domestic Appliances**

Class: T.Y.B.Sc. Attendance: 2020-21

Sr No	Name of Students	Date:					
		11/3/21	2/3/21	3/03/21	8/3/21	9/03/21	10/03/21
1	Bhot sayali Sunil	P	P	P	P	P	P
2	Dawange sanjeswa Dnyaneshwar	P	P	P	P	P	P
3	Khilari Arti	A	A	A	A	A	A
4	Shaikh Rozmin Inus	P	P	P	P	P	P

Sr No	Name of Students	Date:					
		22/3/21	23/3/21	17/3/21			
1	Bhot sayali Sunil	P	P	A			
2	Dawange sanjeswa Dnyaneshwar	P	P	P			
3	Khilari Arti	A	A	P			
4	Shaikh Rozmin Inus	P	P	P			



Rayat Shikshan Sanstha's

SSGM College, Kopargaon

Short term Course: Maintenance and Repair of Electrical
Domestic Appliances

Class: T.Y.B.Sc. Attendance: 2020-21

Sr No	Name of Students	Date:					
		5/4/21	6/4/21	7/04/21	19/4/21	20/4/21	28/4/21
1	Bhot sayali Sunil	P	P	P	P	P	P
2	Dawange sanjeswa Dnyaneshwar	P	P	P	P	A	P
3	Khilari Arti	A	P	A	P	A	A
4	Shaikh Rozmin Inus	P	A	P	P	P	P

Sr No	Name of Students	Date:	Test				
		21/4/21	27/4/21				
1	Bhot sayali Sunil	P	A				
2	Dawange sanjeswa Dnyaneshwar	P	P				
3	Khilari Arti	A	P				
4	Shaikh Rozmin Inus	P	P				



S.S.G.M college, kopargaon

Department of Electronic science

Short term course –examination 2020-21

Sub-Maintenance and repair of electrical domestic appliances

N.B **Seat no...0.4.** **Time:2HRs** **Date...27/04/21**

1. All questions are compulsory.
2. All questions carry equal marks.

1. fill in the blanks by selecting appropriate alternatives.

1. Microwave system is divided into.....

- a) Two ports
- b) Three ports
- c) Four ports

2. Do not operate oven when.....

- a) Empty
- b) Fully
- c) Out doors

3. The D.C fans are of D.C.....motors.

- a) series
- b) parallel
- c) Out doors

4. The stationary part of the A.C table fan is.....

- a) stator
- b) motor
- c) Rotor

5. ceiling fan works on the principle of rotating

- a) Magnetic field
- b) Electric field
- c) Electromagnetic field

6. bracket fan used the motor.....

- a) Single phase



- b) Double phase
 - c) Split phase
7. In the refrigerator.....is temperature sensor
- a) thermocouple
 - b) thermistor
 - c) resistor
8. The water is drained by.....in washing machin.
- a) Drain hose
 - b) Water inlet
 - c) Washer
9. The direction of running of wash motor is controlled by.....
- a) Spin timer
 - b) Wash selector
 - c) Water supply selector.
10. by using.....the spin drying time is selected
- a) Micro switch
 - b) Spinner cap
 - c) Spin timer
11. Wash timer used to
- a) Set the wash time
 - b) To stop spin drum
 - c) Keep the motor cool
12. The water id drained from clothes by
- a) centrifugal
 - b) centripetal
 - c) linear
13. Maximum spin time is.....
- a) 0.5 minutes
 - b) 1 minutes
 - c) 2minutes
14. wash water does not start.....
- a) Due to open circuit
 - b) Due to bearing jam
 - c) Lfuse blown
15. The frequency of wave in microwave oven is.....
- a) 2.45GHz
 - b) 2.50GHz
 - c) 2.40GHz

S.S.G.M college,kopargaon

Department of Electronic science

Short term course –examination 2020-21

Sub-Maintenance and repair of electrical domestic appliances

N.B Seat no. 01.... Time:2HRs Date... 2.11.21

1. All questions are compulsory.
2. All questions carry equal marks.

1. fill in the blanks by selecting appropriate alternatives.

1. Microwave system is divided into.....
 - a) Two ports
 - b) Three ports
 - c) Four ports
2. Do not operate oven when.....
 - a) Empty
 - b) Fully
 - c) Out doors
3. The D.C fans are of D.C.....motors.
 - a) series
 - b) parallel
 - c) Out doors
4. The stationary part of the A.C table fan is.....
 - a) stator
 - b) motor
 - c) Rotor
5. ceiling fan works on the principle of rotating
 - a) Magnetic field
 - b) Electric field
 - c) Electromagnetic field
6. braket fan used the motor.....
 - a) Single phase



- b) Double phase
 - c) Split phase
7. In the refrigerator.....is temperature sensor
- a) thermocouple
 - b) thermistor
 - c) resistor
8. The water is drained by.....in washing machin.
- a) Drain hose
 - b) Water inlet
 - c) Washer
9. The direction of running of wash motor is controlled by.....
- a) Spin timer
 - b) Wash selector
 - c) Water supply selector.
10. by using.....the spin drying time is selected
- a) Micro switch
 - b) Spinner cap
 - c) Spin timer
11. Wash timer used to
- a) Set the wash time
 - b) To stop spin drum
 - c) Keep the motor cool
12. The water is drained from clothes by
- a) centrifugal
 - b) centripetal
 - c) linear
13. Maximum spin time is.....
- a) 0.5 minutes
 - b) 1 minutes
 - c) 2 minutes
14. wash water does not start.....
- a) Due to open circuit
 - b) Due to bearing jam
 - c) Lfuse blown
15. The frequency of wave in microwave oven is.....
- a) 2.45GHz
 - b) 2.50GHz
 - c) 2.40GHz

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S.S.G.M college,kopargaon

Department of Electronic science

Short term course –examination 2020-21

Sub-Maintenance and repair of electrical domestic appliances

N.B **Seat no..02...** **Time:2HRs** **Date.....27/04/21**

1. All questions are compulsory.
2. All questions carry equal marks.

1.fill in the blanks by selecting appropriate alternatives.

- ✓ 1.Microwave system is divided into.....
 - ✓ a) Two ports
 - b) Three ports
 - c) Four ports
- ✓ 2.Do not operate oven when.....
 - ✓ a) Empty
 - b) Fully
 - c) Out doors
- ✓ 3.The D.C fans are of D.C.....motors.
 - ✓ a) series
 - b) parallel
 - c) Out doors
- ✗ 4.The stationary port of the A.C table fan is.....
 - a) stator
 - ✓ b) motor
 - c) Rotor
- ✓ 5. ceiling fan works on the principle of rotating
 - ✓ a) Magnetic field
 - b) Electric field
 - c) Electromagnetic field
- ✓ 6.braket fan used the motor.....
 - a) Single phase



- b) Double phase
c) ~~Split phase~~
7. In the refrigerator.....is temperature sensor
a) ~~thermocouple~~
b) thermistor
c) ~~resistor~~
8. The water is drained by.....in washing machin.
a) Drain hose
b) ~~Water inlet~~
c) ~~Washer~~
9. The direction of running of wash motor is controlled by.....
a) ~~Spin timer~~
b) Wash selector
c) ~~Water supply selector.~~
10. by using.....the spin drying time is selected
a) Micro switch
b) ~~Spinner cap~~
c) ~~Spin timer~~
11. Wash timer used to
a) ~~Set the wash time~~
b) To stop spin drum
c) ~~Keep the motor cool~~
12. The water id drained from clothes by
a) ~~centrifugal~~
b) centripetal
c) ~~linear~~
13. Maximum spin time is.....
a) ~~0.5 minutes~~
b) 1 minutes
c) ~~2minutes~~
14. wash water does not start.....
a) Due to open circuit
b) ~~Due to bearing jam~~
c) ~~Lfuse blown~~
15. The frequency of wave in microwave oven is.....
a) ~~2.45GHz~~
b) 2.50GHz
c) 2.40GHz

Department of Electrical Engineering
Sri Lanka Technological College
No. 10, Galle Road, Colombo 05, Sri Lanka
Tel: 011 2612 3456

S.S.G.M college, kopargaon
Department of Electronic science

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Aravind

Short term course –examination 2020-21

Sub-Maintenance and repair of electrical domestic appliances

N.B Seat no. 03 Time: 2HRs Date.. 27.10.21

1. All questions are compulsory.
2. All questions carry equal marks.

1. fill in the blanks by selecting appropriate alternatives.

1. Microwave system is divided into.....
 - a) Two ports
 - b) Three ports
 - c) Four ports
2. Do not operate oven when.....
 - a) Empty
 - b) Fully
 - c) Out doors
3. The D.C fans are of D.C.....motors.
 - a) series
 - b) parallel
 - c) Out doors
4. The stationary part of the A.C table fan is.....
 - a) stator
 - b) motor
 - c) Rotor
5. ceiling fan works on the principle of rotating
 - a) Magnetic field
 - b) Electric field
 - c) Electromagnetic field
6. bracket fan used the motor.....
 - a) Single phase



- b) Double phase
c) Split phase
7. In the refrigerator.....is temperature sensor
✓ a) thermocouple
b) thermistor
c) resistor
8. The water is drained by.....in washing machin.
✓ a) Drain hose
✓ b) Water inlet
c) Washer
9. The direction of running of wash motor is controlled by.....
✓ a) Spin timer
b) Wash selector
c) Water supply selector.
10. by using.....the spin drying time is selected
a) Micro switch
✓ b) Spinner cap
c) Spin timer
11. Wash timer used to
✓ a) Set the wash time
b) To stop spin drum
c) Keep the motor cool
12. The water id drained from clothes by
a) centrifugal
✓ b) centripetal
c) linear
13. Maximum spin time is.....
✓ a) 0.5 minutes
b) 1 minutes
c) 2minutes
14. wash water does not start.....
a) Due to open circuit
✓ b) Due to bearing jam
c) Lfuse blown
15. The frequency of wave in microwave oven is.....
✓ a) 2.45GHz
b) 2.50GHz
c) 2.40GHz

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S.S.G.M college,kopargaon

Department of Electronic science

Short term course –examination 2020-21

Sub-Maintenance and repair of electrical domestic appliances

N.B Seat no...04... Time:2HRs Date...27/04/21

1. All questions are compulsory.
2. All questions carry equal marks.

1.fill in the blanks by selecting appropriate alternatives.

- ✓ 1.Microwave system is divided into.....
 - ✓ a) Two ports
 - b) Three ports
 - c) Four ports
- ✓ 2.Do not operate oven when.....
 - ✓ a) Empty
 - b) Fully
 - c) Out doors
- ✓ 3.The D.C fans are of D.C.....motors.
 - ✓ a) series
 - b) parallel
 - c) Out doors
- ✓ 4.The stationary part of the A.C table fan is.....
 - ✓ a) stator
 - b) motor
 - c) Rotor
- ✓ 5. ceiling fan works on the principle of rotating
 - ✓ a) Magnetic field
 - b) Electric field
 - c) Electromagnetic field
- ✗ 6.braket fan used the motor.....
 - ✓ a) Single phase



- b) Double phase
c) Split phase
- ✓ 7. In the refrigerator.....is temperature sensor
a) thermocouple
b) thermistor
c) resistor
- ✓ 8. The water is drained by.....in washing machin.
a) Drain hose
✓ b) Water inlet
c) Washer
- ✓ 9. The direction of running of wash motor is controlled by.....
✓ a) Spin timer
b) Wash selector
c) Water supply selector.
- ✓ 10. by using.....the spin drying time is selected
a) Micro switch
✓ b) Spinner cap
c) Spin timer
- ✓ 11. Wash timer used to
✓ a) Set the wash time
b) To stop spin drum
c) Keep the motor cool
- ✓ 12. The water id drained from clothes by
✓ a) centrifugal
b) centripetal
c) linear
- ✓ 13. Maximum spin time is.....
✓ a) 0.5 minutes
b) 1 minutes
c) 2minutes
- ✓ 14. wash water does not start.....
a) Due to open circuit
✓ b) Due to bearing jam
c) Lfuse blown
- ✓ 15. The frequency of wave in microwave oven is.....
✓ a) 2.45GHz
b) 2.50GHz
c) 2.40GHz



S.S.G.M COLLEGE, KOPARGAON
DEPARTMENT OF ELECTRONIC SCIENCE
SHORT TERM COURSE -2020-21
MARK List of student

SEAT NO	STUDENT NAME	MARKS OUT OF 30
01	Bhot sayali sunil	26
02	Dawange sanjeswa Dnyaneshwar	29
03	Khilari Arti	28
04	Shaikh Rozmin Inus	28


COURSE CO-ORDINATOR




HEAD
Dept of Electronic Sci.
HEAD OF DEPARTMENT
S S.G.M.College, Kopargac.n



Ravat Shikshan Sanstha

Rayat Shikshan Sanstha's
**SHRI SADGURU GANGAGEER MAHARAJ SCIENCE, GAUTAM
ARTS & SANJIVANI COMMERCE COLLEGE**

Kopargaon-423601, Dist.-Ahmednagar

Affiliated to Savitribai Phule Pune University, Pune

NAAC Accredited 'B++' Grade

DEPARTMENT OF ELECTRONIC SCIENCE



Short Term Course

On

“Maintenance and Repair of Electrical Domestic Appliances”



This is to certify that Mr/Miss.....of Class T.Y. B.Sc. (Electronic Science) from **Shri Sadguru Gangageer Maharaj Science, Gautam Arts & Sanjivani Commerce College, Kopargaon** has successfully completed three months Short Term Course “Maintenance and Repair of Electrical Domestic Appliances” during 2020-21.

Coordinator
Course

Head,
Department of Electronic Science

Principal,
S.S.G.M College, Kopargaon

RAYAT SHIKSHAN SANSTHA'S
S.S.G.M. COLLEGE, KOPARGAON
DEPARTMENT OF ELECTRONIC SCIENCE

Short term course

“Maintenance and Repair of Electrical Domestic Appliances”

Student feedback form

Title: “Maintenance and Repair of Electrical Domestic Appliances”

Name: Shaikh Rozmin Inus.

Class: TY Bsc

Overall satisfaction (tick the following)

	Excellent	Good	Very Good	Fair	Poor
How does this course fulfill your expectation?		✓			
Course Objective Stated Clearly	✓				
Do you get Knowledge ?		✓			
After the Course, how inspired did you feel?	✓				
Overall, how entertaining was the Course?	✓				

If you were to tell someone about this Course, what would you say?

..... This course states all its objective
..... clearly
.....

Shaikh Rozmin Inus
Sign:

RAYAT SHIKSHAN SANSTHA'S
S.S.G.M. COLLEGE, KOPARGAON
DEPARTMENT OF ELECTRONIC SCIENCE

Short term course
"Maintenance and Repair of Electrical Domestic
Appliances"
Student feedback form

Title: "Maintenance and Repair of Electrical Domestic
Appliances"

Name: Bhot Sayali Sunil

Class: TYBsc

Overall satisfaction (tick the following)

	Excellent	Good	Very Good	Fair	Poor
How does this course fulfill your expectation?	<input checked="" type="checkbox"/>				
Course Objective Stated Clearly	<input checked="" type="checkbox"/>				
Do you get Knowledge ?	<input checked="" type="checkbox"/>				
After the Course, how inspired did you feel?		<input checked="" type="checkbox"/>			
Overall, how entertaining was the Course?	<input checked="" type="checkbox"/>				

If you were to tell someone about this Course, what would you say?

.....
.....
.....

Bhot
Sign:

RAYAT SHIKSHAN SANSTHA'S
S.S.G.M. COLLEGE, KOPARGAON
DEPARTMENT OF ELECTRONIC SCIENCE

Short term course
“Maintenance and Repair of Electrical Domestic
Appliances”
Student feedback form

Title: “Maintenance and Repair of Electrical Domestic
Appliances”

Name: Dawange Sanjeswa Dnyaneshwar

Class: TYBsc

Overall satisfaction (tick the following)

	Excellent	Good	Very Good	Fair	Poor
How does this course fulfill your expectation?	<input checked="" type="checkbox"/>				
Course Objective Stated Clearly	<input checked="" type="checkbox"/>				
Do you get Knowledge ?		<input checked="" type="checkbox"/>			
After the Course, how inspired did you feel?		<input checked="" type="checkbox"/>			
Overall, how entertaining was the Course?	<input checked="" type="checkbox"/>				

If you were to tell someone about this Course, what would you say?

It's full of knowledgeable.
.....
.....
.....

Dawange
Sign:

RAYAT SHIKSHAN SANSTHA'S
S.S.G.M. COLLEGE, KOPARGAON
DEPARTMENT OF ELECTRONIC SCIENCE

Short term course
"Maintenance and Repair of Electrical Domestic
Appliances"
Student feedback form

Title: "Maintenance and Repair of Electrical Domestic
Appliances"

Name: Khilari Arti

Class: TYBsc

Overall satisfaction (tick the following)

	Excellent	Good	Very Good	Fair	Poor
How does this course fulfill your expectation?	<input checked="" type="checkbox"/>				
Course Objective Stated Clearly		<input checked="" type="checkbox"/>			
Do you get Knowledge ?	<input checked="" type="checkbox"/>				
After the Course, how inspired did you feel?	<input checked="" type="checkbox"/>				
Overall, how entertaining was the Course?		<input checked="" type="checkbox"/>			

If you were to tell someone about this Course, what would you say?

..... A lot to learn from this course.....
.....
.....
.....

Khilari: A.B.
Sign: