



"Dissemination of Education through Knowledge, Science and Culture"  
-Shri Swami Vivekanand Dr. Bapuji Salunkhe

Sri Swami Vivekanand Snikshan Sanstha's Kolhapur

**PADMABHUSHAN DR. VASANTRAODADA PATIL  
MAHAVIDYALAYA TASGAON DIST- SANGLI**

**416 312 (Maharashtra) Phone No: (02346)250665**

(Affiliated to Shivaji University, Kolhapur)

**DEPARTMENT OF PHYSICS**

**CERTIFICATE COURSE IN  
REPAIRING AND MAINTENANCE OF  
HOME APPLIANCES**

**2020-2021**

"Dissemination of Education for Knowledge, Science and Culture"

-Shikshanmaharshi Dr. Bapuji Salunkhe

Shri Swami Vivekanand Shikshan Sanstha Kolhapur's

Padmabhushan Dr. Vasantodada Patil Mahavidyalaya, Tasgaon

Department of Physics

BOARD OF STUDY

2020-2021

Board of studies member in Certificate course in Repairing and Maintenance of Home Appliances are

1)	Dr. J. S. Ghodake	PDVP College, Tasgaon
2)	Mr. B.S. Harale	PDVP College, Tasgaon
2)	Mr. G. S. Pawar	PDVP College, Tasgaon
4)	MissA. S. Yadav	PDVP College, Tasgaon



Dr. J. S. Ghodake  
**Head,**

Department of Physics,  
Padmabhushan Dr. Vasantodada Patil  
Mahavidyalaya, Tasgaon, (Dist. Sangli)

**"Dissemination of Education for Knowledge, Science and Culture"**  
**-Shikshanmaharshi Dr. Bapuji Salunkhe**  
**Shri Swami Vivekanand Shikshan Sanstha Kolhapur's**

Padmabhushan Dr. Vasantrodada Patil Mahavidyalaya, Tasgaon

**Department of Physics**

Date-23/11/2020



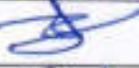

**MEETING NOTICE**

All members of the BOS in Certificate course in Repairing and Maintenance of Home Appliances are hereby informed that a meeting is convened on 28/11/2020 at 2.30 pmin the departmental cabin. All the respected members are requested to attend the meeting to discuss the following agenda.

**Agenda:**

1. Preparation of syllabus of certificate course
2. Time table and Workload
3. Syllabus distribution
4. Any other issue raised with prior permission of Chairperson.

Following members are present on this meeting.

Sr. No.	Name of the faculty	Signature
1)	Dr. J. S. Ghodake	
2)	Mr. B.S. Harale	
3)	Mr. G. S. Pawar	
4)	Miss A. S. Yadav	

  
Dr. J. S. Ghodake  
**Head,**





**Department of Physics,**  
Padmabhushan Dr. Vasantrodada Patil  
Mahavidyalaya, Tasgaon, (Dist. Sangli)

## Minutes of Meeting

The minutes of the meeting are given below

1. During the meeting syllabus of certificate course in Repairing and Maintenance of Home Appliances are prepared. It contains two papers in which first theory paper of Electrical Appliances and second paper of practicals of Electrical Appliances are discussed. The responsibility of preparation of syllabus was given to Mr. J. S. Ghodake
2. The issue regarding time table and workload distribution discussed. It has been decided to start course from December 2020. The faculty member is appointed for teaching the syllabus and practicals.
3. The responsibility of completion of syllabus is given to teacher Mr. Y. S. Pandit.

Following members are present on this meeting.

Sr. No.	Name of the faculty	Signature
1)	Dr. J. S. Ghodake	
2)	Mr. B.S. Harale	
3)	Mr. G. S. Pawar	
4)	Miss A. S. Yadav	

  
Dr. J. S. Ghodake  
Head,

Department of Physics,  
Padmabhushan Dr. Vasantodada Patil  
Mahavidyalaya, Targaon, (Dist. Sangli)

## **Aims and Objectives**

Students acquire knowledge about function and use of electrical equipments and accessories. Also create awareness about electrical domestic appliances. The students who completed this course are competent in electrical work and get job opportunities in a commercial electrical manufacturing work or maintainer.

1. Testing of electrical parameters, cables and measurements.
2. Select the proper instrument for suitable measurement.
3. Practice soldering and de-soldering of various types of electrical and electronics components.
4. Trouble shoot the faults in the given power supply circuits.
5. Identify and test various mechanical and electrical modules of the given appliances.
6. Identify electronics parts/components/modules of the given appliances.
7. Aware of models of different appliances and features.
8. Use reference manuals and identify the information required to service the appliances.
9. Practice the standard troubleshooting procedures as suggested in the product manuals.
10. Install the given appliance as recommended by manufacturer.
12. Visit above domestic and commercial appliance services and repairing shop.

## **Undergraduate students upon graduation with a Bachelor degree in Sciences:**

### **LEARNING OUTCOMES (knowledge, skills and competence):**

1. Students acquire knowledge about function and use of electrical equipment's, accessories. Also create awareness about electrical domestic appliances. The students who completed this course are competent in electrical work as well as electrical manufacturing work or maintainer.
2. Recognize and comply safe working practice, environment regulation and housekeeping.
3. Identify parts/components, front panel controls, install, service, troubleshoot and repair of domestic electronics appliances viz. iron, mixer-grinder, electrical fans with due care and safety.


- |                           |                                    |
|---------------------------|------------------------------------|
| 4. Duration of course:    | One month.                         |
| 5. Eligibility to course: | B.Sc.III                           |
| 6. Admission:             | Entire B.Sc. III Physics Students. |
| 7. Total fees:            | Rs. 200/-                          |


**Evaluation System:**


**Evaluation System:**

- **Theory paper:** **50 M**  
Nature of the Theory examination  
Q. 1) Multiple choice questions.  
Choose the most correct alternative out of four alternatives a, b, c and d

**Certification:** A certificate will be issued on successful completion of the course.

  
Ms. A. S. Yadav  
Co- coordinator

  
Dr. J. S. Ghodake  
**Head,**  
**Department of Physics,**  
Padmabhushan Dr. Vasantodada Patil  
Mahavidyalaya, Tasgaon, (Dist. Sangli)

  
Dr. Mihir S. Hujare  
**Principal**  
Padmabhushan Dr. Vasantodada Patil  
Mahavidyalaya, Tasgaon, (Sangli)

## Syllabus

Theory [Total periods: 15]

### Paper I Electrical Appliances

#### Unit I

**Electric Iron:** (05 hours)

Types of electronic iron, Principle, construction and working of ordinary and automatic iron.

#### Unit II

**Electrical Mixer/Grinder:** (05 hours)

Types of mixer, Principle, construction and working of single and three speed mixer.

#### Unit III

**Electrical Fan:** (05 hours)

Different types of fan, construction and working of table fan, wall mounting fan.


Practical [Total periods: 15]

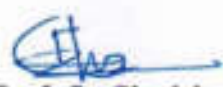
### Paper II Electrical Appliances Practical

1. Testing and repair of ordinary iron.
2. Dismantling and reassembling of wall mounting fan electrical fan.
3. Dismantling and repairing of automatic control type iron.
4. Testing and repair of mixer.
5. Testing and repair of table electrical fan.

#### Reference book

1. Basic Electricity- Prof O. B. Chaudhari, Nirali publication
2. Electrical Machines-Prof O. B. Chaudhari, Nirali publication
3. Electricity and Basic electronics- Dr. P. K. Patil, Phadake publication
4. Electricity and Magnetism-Dr. P. K. Patil, Phadake publication
5. Electricity and Magnetism-D. C. Tayal, Himalaya publication

  
Mr. A. S. Yadav  
Co- coordinator

  
Dr. J. S. Ghodake  
Head,  
Department of Physics,  
Padmabhushan Dr. Vasantkradada Patil  
Mahavidyalaya, Tasgaon, (Dist. Sangli)

  
Dr. Milind S. Hajare  
Principal  
Padmabhushan Dr. Vasantkradada Patil  
Mahavidyalaya, Tasgaon, (Dist. Sangli)

"Dissemination of Education for Knowledge, Science and Culture"-- Shikshanmaharshi Dr. Bapuji Salunkhe

Shri Swami Vivekanand Shikshan Sanstha's  
Padmabhushan Dr. Vasantnandada Patil Mahavidyalaya, Tasgaon (Dist.Sangli)

Department of Physics

Certificate course in Repairing and Maintenance of Home Appliances

List of Students

B. Sc. III (2020-2021)

Sr. No.	Roll No.	Name of the Student
1	6094	Patil Nikita Nagesh
2	6086	Gaikwad Prajakta Nagesh
3	6087	Hajare Vaishnavi Arjun
4	6089	Jamadade Rutuja Vijay
5	6093	Patil Asavari Shivaji
6	6084	Chougule Pratima Prashant
7	6098	Shinde Ashish Ashok
8	6096	Pawar Prasad Chandrakant
9	6090	Koli Tushar Chandrakant
10	6088	Jadhav Aditi Sadashiv
11	6097	Savvashe Snehal Arun
12	6099	Shinde Dipali Shamrao
13	6100	Suryawanshi Komal Balaso
14	6091	Kumbhar Vishjeet Vikas
15	6085	Dhabugade Rushikesh Dilip
16	6092	Mane Patil Rushikesh Prakash
17	6095	Patil Saurabh Sahebrao
18	--	Rohit Shendge Rajendra



Mr. A. S. Yadav  
Co- coordinator



Dr. J. S. Ghodake  
Head,

Department of Physics,

Padmabhushan Dr. Vasantnandada Patil Mahavidyalaya, Tasgaon, (Dist. Sangli)



Dr. Milind S. Hajare  
Principal

Padmabhushan Dr. Vasantnandada Patil

Mahavidyalaya, Tasgaon, (Sangli)

Mahavidyalaya, Tasgaon, (Dist. Sangli)



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**Shri Swami Vivekanand Shikshan Sanstha's**

**Padmabhushan Dr. Vasantnoodada Patil Mahavidyalaya, Tasgaon (Dist.Sangli)**

Department of Physics

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02/12/2020

To,  
The principal  
P. D. V. P. College  
Tasgaon

Subject -: Permission for arranging Lectures of certificate course

Respected Sir,

We are conducting certificate course in "Repairing and Maintenance of Home Appliances" for B. Sc. III year students. For this course we are arranging lectures of Mr. Yogiraj Pandit from 07/12/2020, please give permission for conducting lectures.

Kindly give permission for the same.

Thanking you.

Yours Faithfully,



**Dr. J. S. Ghodake**  
**Head,**

**Department of Physics,**  
**Padmabhushan Dr. Vasantnoodada Patil**  
**Mahavidyalaya, Tasgaon, (Dist. Sangli)**

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— Shikshanmaharshi Dr. Bapuji Salunkhe

Shri Swami Vivekanand Shikshan Sanstha's

Padmabhushan Dr. Vasantodada Patil Mahavidyalaya, Tasgaon

DEPARTMENT OF PHYSICS

Notice

03/12/2020

All the students of B. Sc. III are hereby informed that, lectures for certificate course in "Repairing and Maintenance of Home Appliances" will be started from 07/12/2020 as per timetable.

All students must be remain present in time.



Dr. Ghodake J. S.  
**Head,**

Department of Physics,  
Padmabhushan Dr. Vasantodada Patil  
Mahavidyalaya, Tasgaon, (Dist. Sangli)



Dr. Milind S. Hujare  
**Principal**

Padmabhushan Dr. Vasantodada Patil  
Mahavidyalaya, Tasgaon, (Sangli)

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Shri Swami Vivekanand Shikshan Sanstha, Kolhapur

Padmabhushan Dr. Vasanttraodada Patil Mahavidyalaya, Tasgaon, Dist-Sangli

**Department of Physics**

Certificate Course in

Certificate course in Repairing and Maintenance of Home Appliances

**Time Table**

2019-2020

Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8.00am-11.00am					Practical/ Training program	
10.00am-11.00am	Theory	Theory	Theory			



Ms. A. S. Yadav  
Co-coordinator



Dr. J. S. Ghodake  
**Head,**

**Department of Physics,**  
Padmabhushan Dr. Vasanttraodada Patil Mahavidyalaya, Tasgaon, (Dist. Sangli)



Dr. Milind S. Dhujare  
**Principal**

Padmabhushan Dr. Vasanttraodada Patil  
Mahavidyalaya, Tasgaon, (Sangli)

Shri Swami Vivekanand Shikshan Sanstha's

Padmabhushan Dr. Vasantodada Patil Mahavidyalaya, Tasgaon (Dist.Sangli)

Department of Physics

Certificate course in Repairing and Maintenance of Home Appliances

Student Attendance

B. Sc. III (2020-2021)

Sr. No.	Roll No.	Name of the Student	Signature					
1	6094	Patil Nikita Nagesh						
2	6086	Gaikwad Prajakta Nagesh						
3	6087	Hajare Vaishnavi Arjun		Ab			Ab	
4	6089	Jamadade Rutuja Vijay						
5	6093	Patil Asavari Shivaji						
6	6084	Chougule Pratima Prashant						
7	6098	Shinde Ashish Ashok						
8	6096	Pawar Prasad Chandrakant						
9	6090	Koli Tushar Chandrakant						
10	6088	Jadhav Aditi Sadashiv						
11	6097	Savvashe Snehal Arun						
12	6099	Shinde Dipali Shamrao		Ab				
13	6100	Suryawanshi Komal Balaso				Ab		
14	6091	Kumbhar Vishjeet Vikas						
15	6085	Dhabugade Rushikesh Dilip						
16	6092	Mane Patil Rushikesh Prakash						
17	6095	Patil Saurabh Sahebrao						
18	--	Rohit Shendge Rajendra						

Dr. J. S. Ghodake  
Head,

Department of Physics,  
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Shri Swami Vivekanand Shikshan Sanstha's

**Padmabhushan Dr. Vasantodada Patil Mahavidyalaya, Tasgaon (Dist.Sangli)**

Department of Physics

22/06/2021

To,  
The Principal  
P. D. V. P. College  
Tasgaon

Subject -: Permission for arranging online Lectures of certificate course

Respected Sir,

We are conducting certificate course in "Repairing and Maintenance of Home Appliances" and "Maintenance and Repairs of Electrical Domestic Appliances" for B. Sc. III and I year students in online mode. For this course we are arranging lectures of Mr. Yogiraj Pandit from 23/06/2021, please give permission for conducting lectures.

Kindly give permission for the same.

Thanking you.



Yours Faithfully,



Dr. J. S. Ghodake  
Head,

Department of Physics,  
Padmabhushan Dr. Vasantodada Patil  
Mahavidyalaya, Tasgaon, (Dist. Sangli)

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**Shri Swami Vivekanand Shikshan Sanstha's**


**Padmabhushan Dr. Vasantodada Patil Mahavidyalaya, Tasgaon (Dist.Sangli)**

**DEPARTMENT OF PHYSICS**


Date-24/06/2021

Notice

All the B. Sc. III year students are here by informed that online lectures of certificate course in REPAIRING AND MAINTENANCE OF HOME APPLIANCES will be start from 25/06/2021 as per following timetable. Online lecture link and attendance link should be provided on whatsapp group.



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**Padmabhushan Dr. Vasantodada Patil Mahavidyalaya Tasgaon,**  
**Sangli-416312, Maharashtra**  
(Affiliated to Shivaji University Kolhapur)



**DEPARTMENT OF PHYSICS**  
2020-2021

**Time Table For Certificate Course**  
**REPAIRING AND MAINTENANCE OF HOME APPLIANCES**  
B. Sc. III

Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
2.45 pm to 3.45 pm	Mr. Yogesh S. Pandit		Mr. Yogesh S. Pandit		Mr. Yogesh S. Pandit	

Mr. S. S. Shinde  
Teacher Incharge

Dr. Jeevan S. Ghodake  
HOD

Dr. Milind S. Hujare  
Principal

**Dr. Jeevan S. Ghodake**

Head,

Department of Physics,

Padmabhushan Dr. Vasantodada Patil

Mahavidyalaya, Tasgaon, (Dist. Sangli)

**Dr. Milind S. Hujare**

Principal

Padmabhushan Dr. Vasantodada Patil

Mahavidyalaya, Tasgaon, (Sangli)

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Padmabhushan Dr. Vasantrodada Patil Mahavidyalaya, Tasgaon (Dist.Sangli)

DEPARTMENT OF PHYSICS

Date-24/06/2021

Notice

All the B. Sc. I year students are here by informed that online lectures of certificate course in **Maintenance and Repairs of Electrical Domestic Appliances** will be start from 25/06/2021 as per following timetable. Online lecture link and attendance link should be provided on whatsapp group.

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Shri. Swami Vivekanand Shikshan Sanstha's  
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Sangli-416312, Maharashtra  
(Affiliated to Shriji University Kolhapur)

**DEPARTMENT OF PHYSICS**  
2020-2021

Time Table For Certificate Course  
**Maintenance and Repairs of Electrical Domestic Appliances**  
B. Sc. I

Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
2.45 pm to 4.05 pm	Mr. Yogesh S. Pandit		Mr. Yogesh S. Pandit		Mr. Yogesh S. Pandit	

Mr. B. S. Harale  
Teacher Incharge

Dr. Jeevan S. Ghodake  
HOD

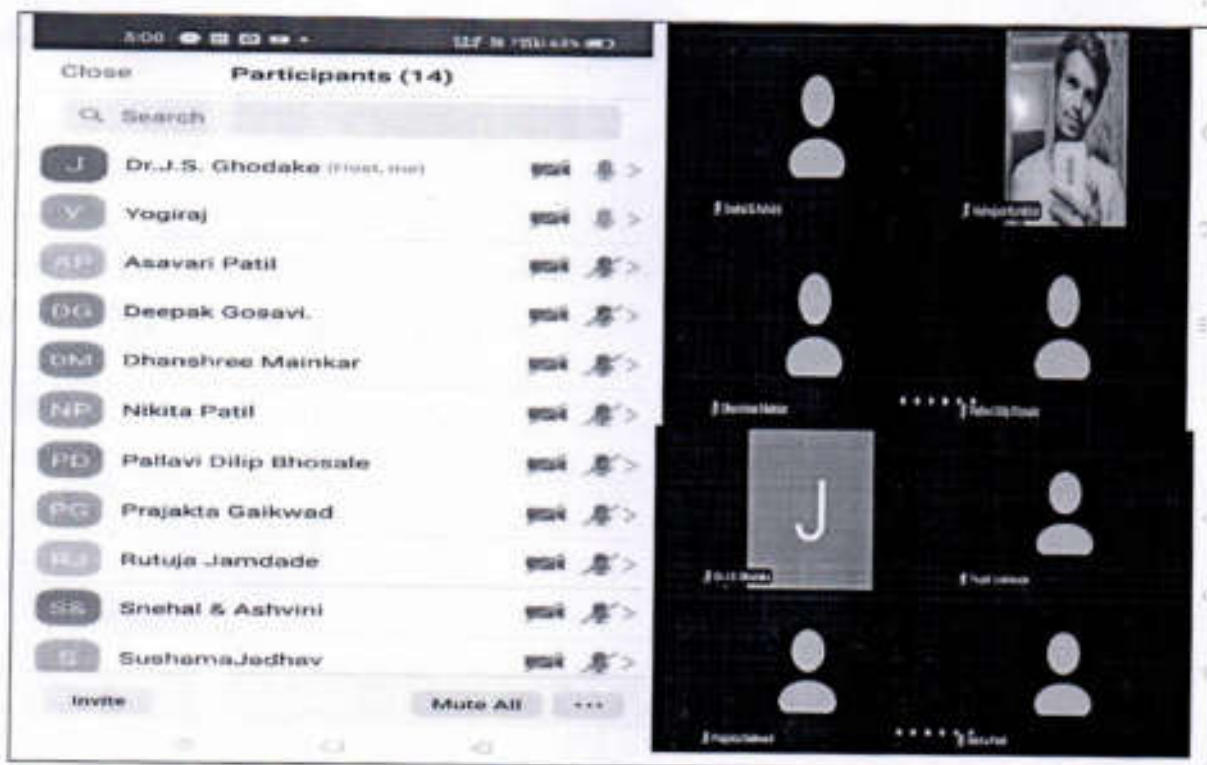
Dr. Milind S. Hujare  
Principal

Dr. Jeevan S. Ghodake  
Head,

Department of Physics,  
Padmabhushan Dr. Vasantrodada Patil  
Mahavidyalaya, Tasgaon, (Dist. Sangli)

Dr. Milind S. Hujare  
Principal

Padmabhushan Dr. Vasantrodada Patil  
Mahavidyalaya, Tasgaon, (Sangli)

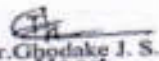


Course Teacher, Mr. Yogesh S. Pandit and HOD Dr. J. S. Ghodake



Mark sheet

Timestamp	Total score	Student Name	Email address	Roll No.
2021/07/31 10:56:18 AM GMT+5:30	22.00 / 30	Ashish Ashok Shinde	ashishas2001@gmail.com	6098
2021/07/31 11:02:16 AM GMT+5:30	28.00 / 30	Rushikesh dilipdhabugade.	rushikeshdhabugade@gmail.com	6085
2021/07/31 11:13:06 AM GMT+5:30	26.00 / 30	Gaikwad Prajakta Nagesh	prajaktag2001@gmail.com	6086
2021/07/31 11:14:58 AM GMT+5:30	28.00 / 30	Jamdade Rutuja Vijay	rutujamdade1112@gmail.com	6089
2021/07/31 11:15:28 AM GMT+5:30	28.00 / 30	Asavari Shivaji Patil	asavaripati045@gmail.com	6093
2021/07/31 11:17:42 AM GMT+5:30	24.00 / 30	Kumbhar Vishwjeet Vikas	vishukumbhar99@gmail.com	6091
2021/07/31 11:19:22 AM GMT+5:30	24.00 / 30	Savvashe snehalarun	Snehalsavvashe96@gmail.com	6097
2021/07/31 11:53:36 AM GMT+5:30	22.00 / 30	Shinde Dipali Shamrao	dipalishinde18600@gmail.com	6099
2021/07/31 12:01:00 PM GMT+5:30	28.00 / 30	Pratima prashantchougule	Chougule.prashant9673@gmail.com	6084
2021/07/31 1:12:11 PM GMT+5:30	26.00 / 30	Tushar koli	Ap : Anjani , Tal : Tasgaon	6090
2021/07/31 1:22:44 PM GMT+5:30	28.00 / 30	Aditi Sadashiv Jadhav	aditi28122000@gmail.com	6088
2021/07/31 7:22:24 PM GMT+5:30	26.00 / 30	Prasad Pawar	prasadraje4912@gmail.com	6096
2021/07/31 8:33:52 PM GMT+5:30	26.00 / 30	Komal Balaso Suryawanshi	komal1999surya@gmail.com	6100
2021/08/01 7:50:19 AM GMT+5:30	24.00 / 30	Shinde Dipali shamrao	dipalishinde18600@gmail.com	6099
2021/08/02 12:18:36 PM GMT+5:30	26.00 / 30	Patil Saurabh Sahebrao	saupt10@gmail.com	6095
2021/08/04 8:34:24 AM GMT+5:30	14.00 / 30	Mane Patil Rushikesh Prakash	rushikeshm380@gmail.com	6092
2021/08/04 9:37:17 AM GMT+5:30	22.00 / 30	Nikita nageshpatil	nikitanpatil1513@gmail.com	6094
2021/08/04 9:40:45 AM GMT+5:30	28.00 / 30	Patil Nikita nagesh	nikitanpatil1513@gmail.com	6094
2021/08/06 11:51:55 AM GMT+5:30	24.00 / 30	Shendagerohitrajendra	rohitshendage111@gmail.com	6057

  
**Dr. Ghodake J. S.**  
**Head,**  
**Department of Physics,**  
**Padmabhushan Dr. Vasantodada Patil**  
**Mahavidyalaya, Tasgaon, (Dist. Sangli)**



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PADMABHUSHAN Dr. VASANTRAODADA PATIL  
MAHAVIDYALAYA, TASGAON DIST SANGLI**

**SANSTHAMATA SUSHILADEVI SALUNKHE  
ENTREPRENEURSHIP AND SKILL DEVELOPMNT CENTER**

## CERTIFICATE

This is to certify that Mr./Ms. Gaikwad Prajakta Nagesh  
Class B.Sc.III has successfully completed the certificate course  
in Repairing and Maintenance of Home Appliances  
conducted by the department of Physics during  
the academic year 2020-2021

  
Head

**Head,**  
Department of Physics,  
Padmabhushan Dr. Vasantrodada Patil  
Mahavidyalaya, Tasgaon, (Dist. Sangli)

  
Coordinator

  
Principal

Padmabhushan Dr. Vasantrodada Patil  
Mahavidyalaya, Tasgaon, (Sangli)