

**Shikshan Prasarak Sanstha's  
Padmabhushan Vasantodada Patil Mahavidyalaya,  
Kavathe Mahankal.**

**DEPARTMENT OF PHYSICS**

**Career Oriented Course in**

**“Repairing and Maintenance of Electrical  
Instruments”**

**(2023-24)**

Name of Institute

**PADMABHUSHAN VASANTRAODADA PATIL MAHAVIDYALAYA, KAVATHE  
MAHANKAL.**

**TAL : KAVATHE MAHANKAL, DIST : SANGLI.**

**(MAHARASHTRA)**

Organizer

Department of Physics

Certificate Course

In

**“Repairing and Maintenance Of Electrical Instruments”**

**Types of Course Unit: Compulsory**

**Duration of Course**

**One month/Six weeks/Seven weeks**

**(From 01 September 2023 to 30 September 2023)**

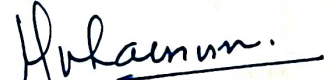
**Language of instruction – English**

**Course coordinator :- Mr. Sagar S. Shinde**

**Intake Capacity:- 25**



**Mr. Sagar S. Shinde  
Co-ordinator**



**Mrs. P.U. Mahamuni  
Head Of Department  
Head  
Department of Physics  
P.V.P. Mahavidyalaya  
Kavathe Mahankal Dist-Sangli**

## INDEX

Sr. No.	Content	Page No.
1.	Permission Letter.	4
2.	Notice for enrollment.	5
4.	Board of studies.	6
	BOS members meeting.	
5.	Minutes of meeting.	7-10
	Aims and objectives.	
	Learning outcomes.	
	Eligibility of the student.	
	Evaluation system.	
6.	Syllabus	11
7.	Timetable	12-13
8.	Notice for starting the course	114
9.	List of students and attendance	15-16
10.	Notice for examination	17
11.	Theory Paper	18-21
12.	Photos	22
13.	Result	23-24
14.	Certificate	25
15.	One page report	26

## Permission Letter

From,  
Head,  
Department of Physics,  
P. V. P. College, Kavathe Mahankal,  
Dist. Sangli, Maharashtra 416405  
Date: 24/08/2023

To,  
The Principal,  
Padmabhushan Vasanttraodada Patil Mahavidyalaya,  
Kavathe Mahankal, Dist. Sangli,  
Maharashtra 416405

**Subject:** Seeking a permission to start the career oriented course in  
"Repairing and Maintainance of Electrical Instruments".

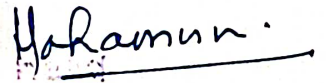
Respected sir,

As per your guidelines we are going to start a career oriented course in "Repairing and Maintenance of Electrical Instruments" in Department of Physics for our college students. This course will be of 30 hours and will be completed during September 2023. The course will be definitely very beneficiary for students.

I request you to give permission to start the above course in the Department.

Thanking you.

Yours faithfully,



Department of Physics  
P.V.P. Mahavidyalaya  
Kavathe Mahankal Dist-Sangli

**Shikshan Prasarak Sanstha's**

**Padmabhushan Vasantnada Patil Mahavidyalaya, Kavathe Mahankal.**

**DEPARTMENT OF PHYSICS**

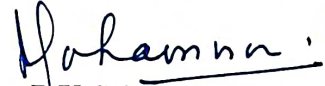
Date: 21-08-2023

**NOTICE**

All the students in B.Sc. are informed that, Department of Physics is going to start the career oriented course in "Repairing and Maintenance of Electrical Instruments". The interested students are requested to enroll up to 31<sup>st</sup> August, 2023.



**Mr. Sagar S. Shinde**  
Co-ordinator



**Mrs. P.U. Mahamuni**  
Head of Department  
Department of Physics  
P.V.P. Mahavidyalaya  
Kavathe Mahankal Dist-Sangli

**Shikshan Prasarak Sanstha's**

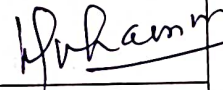
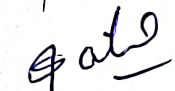
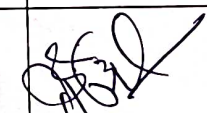


**Padmabhushan Vasanttraodada Patil Mahavidyalaya, Kavathe Mahankal.**

**DEPARTMENT OF PHYSICS**

**BOARD OF STUDY**

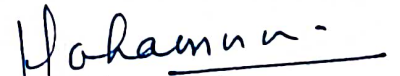
2023-2024

Board of studies members in Certificate course in 'Repairing and Maintenance of Electrical Instruments' are,

Sr. No.	Name	Designation	Signature
1.	Mrs. P.U. Mahamuni	President	
2.	Asso. Prof. S.B. Patil	Member	
3.	Dr. S.S. Shendage	Member	
4.	Mr. Sagar S. Shinde	Member	
5.	Mr. R. P. Hasabe	Member	



Mr. Sagar S. Shinde  
Co-ordinator



Mrs. P.U. Mahamuni  
Head of Department  
Department of Physics  
P.V.P. Mahavidyalaya  
Kavathe Mahankal Dist-Sangli<sup>6</sup>

## Shikshan Prasarak Sanstha's

Padmabhushan Vasantodada Patil Mahavidyalaya, Kavathe Mahankal.

### DEPARTMENT OF PHYSICS

Date-23/08/2023

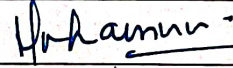
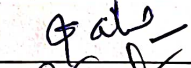
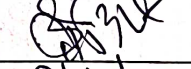
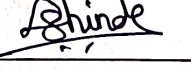

#### MEETING NOTICE


All members of the BOS in Certificate course in Repairing and Maintenance of Home Appliances are hereby informed that a meeting is convened on 24/08/2023 at 2.30 p. m. in the departmental cabin. All the respected members are requested to attend the meeting to discuss the following agenda.

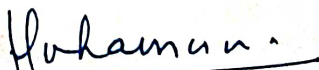
Agenda:

1. Preparation of syllabus of certificate course.
2. Any other issue raised with prior permission of Chairperson.

Following members are present on this meeting.

Sr. No.	Name of the faculty	Signature
1)	Mrs. P.U. Mahamuni	
2)	Asso. Prof. S.B. Patil	
3)	Dr. S.S. Shendage	
4)	Mr. Sagar. S. Shinde	
5)	Mr. R. P. Hasabe	

  
Mr. Sagar S. Shinde  
Co-ordinator

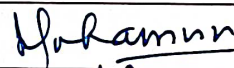
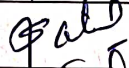

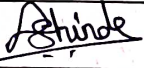

  
Mrs. P.U. Mahamuni  
Head of Department  
Department of Physics  
P.V.P. Mahavidyalaya  
Kavathe Mahankal Dist-Sangli


## 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 practical's of Electrical Appliances are discussed. The responsibility of preparation of syllabus was given to Mr. Sagar. S. Shinde.
2. The responsibility of completion of syllabus is given to teacher Mr. Sagar S. Shinde.

Following members are present on this meeting.

Sr. No.	Name of the faculty	Signature
1)	Mrs. P.U.Mahamuni	
2)	Asso. Prof. S.B.Patil	
3)	Dr. S.S. Shendge	
4)	Mr. Sagar. S. Shinde	
5)	Mr. R. P. Hasabe	

  
Mr. Sagar S. Shinde  
Co-ordinator

  
Mrs. P.U. Mahamuni  
Head Of Department  
Head  
Department of Physics  
P.V.P. Mahavidyalaya  
Kavathe Mahankal 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.

Testing of electrical parameters,

1. 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.
11. 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. Appear
6. Admission: Entire B.Sc. II & III Students.

**Evaluation System:**

- Theory paper: Final examination

50

**Certification:**

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

## Syllabus

Theory [Total periods: 15]

### Paper I - Electrical Instruments

#### 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.

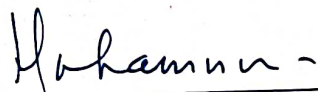
#### Unit III

**Electrical Fan:** (05 hours)

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



Mr. Sagar S. Shinde  
Co-ordinator



Mrs. P.U. Mahamuni  
Head of Department  
Head  
Department of Physics  
P.V.P. Mahavidyalaya  
Kavathe Mahankal Dist-Sangli

**Shikshan Prasarak Sanstha's**

**Padmabhushan Vasantrodada Patil Mahavidyalaya, Kavathe Mahankal.**

**DEPARTMENT OF PHYSICS**

.....

**CERTIFICATE COURSE**

**IN**

**“REPAIRING AND MAINTENANCE OF ELECTRICAL INSTRUMENTS”**

**Work-load**

**2023-2024**

Theory	Total
30	30

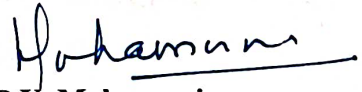
**Distribution Of workload**

**Theory Paper**

Sr.no	Name of the teacher	Workload in hours
1	Mr. Hasabe R.P.	15



**Mr.Sagar S.Shinde**  
**Co-ordinator**





**Mrs. P.U. Mahamuni**  
**Head of Department**  
**Head**  
**Department of Physics**  
**P.V.P. Mahavidyalaya**  
**Kavathe Mahankal Dist-Sangli**

**TIMETABLE FOR CERTIFICATE COURSE (2023-24)**  
**Theory (30 Periods)**

**Time – 10 to 11 am and 11 to 12pm**

Day	Lecturer: Mr. Sagar S. Shinde			
Monday	-----	-----	-----	-----
Tuesday	-----	05/09/2023	12/09/2023	26/09/2023
Wednesday	-----	06/09/2023	13/09/2023	27/09/2023
Thursday	-----	07/09/2023	14/09/2023	-----
Friday	01/09/2023	08/09/2023	15/09/2023	29/09/2023
Saturday	02/09/2023	09/09/2023	16/09/2023	-----

  
**Mr. Sagar S. Shinde**  
Co-ordinator

  
**Mrs. P.U. Mahamuni**  
Head of Department  
Head  
Department of Physics  
P.V.P. Mahavidyalaya  
Kavathe Mahankal Dist-Sangli

**Shikshan Prasarak Sanstha's**  
**Padmabhushan Vasantrodada Patil Mahavidyalaya, Kavathe Mahankal.**

**DEPARTMENT OF PHYSICS**

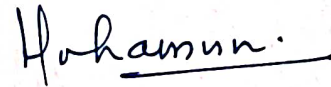
Date: 25-08-2023

**NOTICE**

All the enrolled students are informed that, the lectures of the course will be started from 1<sup>st</sup> September, 2023 as per timetable. All the lectures will be conducted in B.Sc. III classroom of department of physics.



**Mr. Sagar S. Shinde**  
Co-ordinator



**Mrs. P.U. Mahamuni**  
Head of Department  
Department of Physics  
P.V.P. Mahavidyalaya  
Kavathe Mahankal Dist-Sangli

## Shikshan Prasarak Sanstha's

Padmabhushan Vasanttraodada Patil Mahavidyalaya, Kavathe Mahankal.

### DEPARTMENT OF PHYSICS

#### Attendance

Sr. No.	Name	1/9/23	2/9/23	5/9/23	6/9/23	7/9/23	8/9/23	9/9/23	14/9/23	13/9/23	14/9/23	15/9/23	16/9/23	26/9/23	27/9/23	29/9/23
1.	Bhosale Aditya Gulabrao	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>
2.	Khot Shubhangi Ravsaheb	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>
3.	Yadav Om Sunil	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>
4.	Sutar Shivam Rajaram	P	P	P	AB	P	R	R	R	R	R	P	R	R	R	AB
5.	Khamgal Rohit Keru	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>
6.	Sutar Amit Raghunath	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>
7.	Hiremath Shradha Santosh	by	by	AB	by	by	by	by	by	by	by	by	by	by	by	by
8.	Kambale Kaveri Prakash	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	AB	<del>Present</del>	<del>Present</del>
9.	Kharat Pranjali Laxman															
10.	Limkar Pranjali Sudhir	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	AB	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>
11.	Patil Aditi Bajarang	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>
12.	Patil Anjali Dattatray	<del>Present</del>	AB	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>
13.	Patil Pranvika Shahaji	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>
14.	Shinde Shradha Vitthal	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>
15.	Patil Aniket Avinash	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>
16.	Gambhir Darshana Mahavir	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>
17.	Pawar Bablu Tukaram	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
18.	Pawar Sandesh Ganpat	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>

		1/9/23	4/9/23	5/9/23	5/9/23	7/9/23	8/9/23	9/9/23	12/9/23	13/9/23	14/9/23	15/9/23	16/9/23	16/9/23	16/9/23	27/9/23	29/9/23
19.	Chavan Aarya Ramesh	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan
20.	Patil Sanika Sampat	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil
21.	Patil Snehal Babaso	Snehal	Snehal	Snehal	Snehal	Snehal	Snehal	Snehal	Snehal	Snehal	Snehal	Snehal	Snehal	Snehal	Snehal	Snehal	Snehal
22.	Kadam Poonam Balkrishna	Poonam	Poonam	Poonam	Poonam	Poonam	Poonam	Poonam	Poonam	Poonam	Poonam	Poonam	Poonam	Poonam	Poonam	Poonam	Poonam
23.	Masal Punam Balaso	Masal	Masal	Masal	Masal	Masal	Masal	Masal	Masal	Masal	Masal	Masal	Masal	Masal	Masal	Masal	Masal
24.	Khot Prajwal Shahaji	Prajwal	Prajwal	Prajwal	Prajwal	Prajwal	Prajwal	Prajwal	Prajwal	Prajwal	Prajwal	Prajwal	Prajwal	Prajwal	Prajwal	Prajwal	Prajwal
25.	Pakhare Vaishnavi Dnyandev	Vaishnavi	Vaishnavi	Vaishnavi	Vaishnavi	Vaishnavi	Vaishnavi	Vaishnavi	Vaishnavi	Vaishnavi	Vaishnavi	Vaishnavi	Vaishnavi	Vaishnavi	Vaishnavi	Vaishnavi	Vaishnavi
26.	Bhosale Divyaprabha Dilip	Divyaprabha	Divyaprabha	Divyaprabha	Divyaprabha	Divyaprabha	Divyaprabha	Divyaprabha	Divyaprabha	Divyaprabha	Divyaprabha	Divyaprabha	Divyaprabha	Divyaprabha	Divyaprabha	Divyaprabha	Divyaprabha
27.	Pawar Kajal Appaso	Kajal	Kajal	Kajal	Kajal	Kajal	Kajal	Kajal	Kajal	Kajal	Kajal	Kajal	Kajal	Kajal	Kajal	Kajal	Kajal
28.	Khot Shruti Balasaheb	Shruti	Shruti	Shruti	Shruti	Shruti	Shruti	Shruti	Shruti	Shruti	Shruti	Shruti	Shruti	Shruti	Shruti	Shruti	Shruti
29.	Dubule Prashant Malhari	Prashant	Prashant	Prashant	Prashant	Prashant	Prashant	Prashant	Prashant	Prashant	Prashant	Prashant	Prashant	Prashant	Prashant	Prashant	Prashant
30.	Sargar Prathmesh Nivrutti	Prathmesh	Prathmesh	Prathmesh	Prathmesh	Prathmesh	Prathmesh	Prathmesh	Prathmesh	Prathmesh	Prathmesh	Prathmesh	Prathmesh	Prathmesh	Prathmesh	Prathmesh	Prathmesh
31.	Awalekar Siddhanath Anand	Siddhanath	Siddhanath	Siddhanath	Siddhanath	Siddhanath	Siddhanath	Siddhanath	Siddhanath	Siddhanath	Siddhanath	Siddhanath	Siddhanath	Siddhanath	Siddhanath	Siddhanath	Siddhanath
32.	Koli Harshada Dashrath	Harshada	Harshada	Harshada	Harshada	Harshada	Harshada	Harshada	Harshada	Harshada	Harshada	Harshada	Harshada	Harshada	Harshada	Harshada	Harshada
33.	Salunkhe Pranali Ajit	Pranali	Pranali	Pranali	Pranali	Pranali	Pranali	Pranali	Pranali	Pranali	Pranali	Pranali	Pranali	Pranali	Pranali	Pranali	Pranali
34.	Punekar Omkar Chagan	Omkar	Omkar	Omkar	Omkar	Omkar	Omkar	Omkar	Omkar	Omkar	Omkar	Omkar	Omkar	Omkar	Omkar	Omkar	Omkar
35.	Kambale Jyoti Babasaheb	Jyoti	Jyoti	Jyoti	Jyoti	Jyoti	Jyoti	Jyoti	Jyoti	Jyoti	Jyoti	Jyoti	Jyoti	Jyoti	Jyoti	Jyoti	Jyoti
36.	Shingade Tanuja Tanaji	Tanuja	Tanuja	Tanuja	Tanuja	Tanuja	Tanuja	Tanuja	Tanuja	Tanuja	Tanuja	Tanuja	Tanuja	Tanuja	Tanuja	Tanuja	Tanuja
37.	Pawar Komal Dagadu	Komal	Komal	Komal	Komal	Komal	Komal	Komal	Komal	Komal	Komal	Komal	Komal	Komal	Komal	Komal	Komal
38.	Patil Ashutosh Shankar	Ashutosh	Ashutosh	Ashutosh	Ashutosh	Ashutosh	Ashutosh	Ashutosh	Ashutosh	Ashutosh	Ashutosh	Ashutosh	Ashutosh	Ashutosh	Ashutosh	Ashutosh	Ashutosh
39.	Chavan Sneha Arun	Sneha	Sneha	Sneha	Sneha	Sneha	Sneha	Sneha	Sneha	Sneha	Sneha	Sneha	Sneha	Sneha	Sneha	Sneha	Sneha

*Shinde*


Mr. Sagar S. Shinde  
Co-ordinator

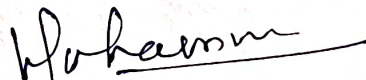
*Mahamuni*

Mrs. P.U. Mahamuni  
Head of Department  
Department of Physics  
P.V.P. Mahavidyalaya  
Kavathe Mahankal Dist-Sangli



		1/9/23	2/9/23	5/9/23	6/9/23	7/9/23	8/9/23	9/9/23	12/9/23	13/9/23	14/9/23	15/9/23	16/9/23	26/9/23	27/9/23	29/9/23
21.	Patil Snehal Babaso	Snehal	Snehal	Snehal	Snehal	Snehal	Snehal	Snehal	Snehal	Snehal	Snehal	Snehal	Snehal	Snehal	Snehal	Snehal
22.	Kadam Poonam Balkrishna	Poonam	Poonam	Poonam	Poonam	Poonam	Poonam	Poonam	Poonam	Poonam	Poonam	Poonam	Poonam	Poonam	Poonam	Poonam
23.	Masal Punam Balaso	Punam	Punam	Punam	Punam	Punam	Punam	Punam	Punam	Punam	Punam	Punam	Punam	Punam	Punam	Punam
24.	Khot Prajwal Shahaji	Prajwal	Prajwal	Prajwal	Prajwal	Prajwal	Prajwal	Prajwal	Prajwal	Prajwal	Prajwal	Prajwal	Prajwal	Prajwal	Prajwal	Prajwal
25.	Pakhare Vaishnavi Dnyandev	Vaishnavi	Vaishnavi	Vaishnavi	Vaishnavi	Vaishnavi	Vaishnavi	Vaishnavi	Vaishnavi	Vaishnavi	Vaishnavi	Vaishnavi	Vaishnavi	Vaishnavi	Vaishnavi	Vaishnavi
26.	Bhosale Divyaprabha Dilip	Divyaprabha	Divyaprabha	Divyaprabha	Divyaprabha	Divyaprabha	Divyaprabha	Divyaprabha	Divyaprabha	Divyaprabha	Divyaprabha	Divyaprabha	Divyaprabha	Divyaprabha	Divyaprabha	Divyaprabha
27.	Pawar Kajal Appaso	Kajal	Kajal	Kajal	Kajal	Kajal	Kajal	Kajal	Kajal	Kajal	Kajal	Kajal	Kajal	Kajal	Kajal	Kajal
28.	Khot Shruti Balasaheb	Shruti	Shruti	Shruti	Shruti	Shruti	Shruti	Shruti	Shruti	Shruti	Shruti	Shruti	Shruti	Shruti	Shruti	Shruti
29.	Dubule Prashant Malhari	Prashant	Prashant	Prashant	Prashant	Prashant	Prashant	Prashant	Prashant	Prashant	Prashant	Prashant	Prashant	Prashant	Prashant	Prashant
30.	Sargar Prathmesh Nivrutti	Prathmesh	Prathmesh	Prathmesh	Prathmesh	Prathmesh	Prathmesh	Prathmesh	Prathmesh	Prathmesh	Prathmesh	Prathmesh	Prathmesh	Prathmesh	Prathmesh	Prathmesh
31.	Awalekar Siddhanath Anand	Siddhanath	Siddhanath	Siddhanath	Siddhanath	Siddhanath	Siddhanath	Siddhanath	Siddhanath	Siddhanath	Siddhanath	Siddhanath	Siddhanath	Siddhanath	Siddhanath	Siddhanath
32.	Koli Harshada Dashrath	Harshada	Harshada	Harshada	Harshada	Harshada	Harshada	Harshada	Harshada	Harshada	Harshada	Harshada	Harshada	Harshada	Harshada	Harshada
33.	Salunkhe Pranali Ajit	Pranali	Pranali	Pranali	Pranali	Pranali	Pranali	Pranali	Pranali	Pranali	Pranali	Pranali	Pranali	Pranali	Pranali	Pranali
34.	Punekar Omkar Chagan	Omkar	Omkar	Omkar	Omkar	Omkar	Omkar	Omkar	Omkar	Omkar	Omkar	Omkar	Omkar	Omkar	Omkar	Omkar
35.	Kambale Jyoti Babasaheb	Jyoti	Jyoti	Jyoti	Jyoti	Jyoti	Jyoti	Jyoti	Jyoti	Jyoti	Jyoti	Jyoti	Jyoti	Jyoti	Jyoti	Jyoti
36.	Shingade Tanuja Tanaji	Tanuja	Tanuja	Tanuja	Tanuja	Tanuja	Tanuja	Tanuja	Tanuja	Tanuja	Tanuja	Tanuja	Tanuja	Tanuja	Tanuja	Tanuja
37.	Pawar Komal Dagadu	Komal	Komal	Komal	Komal	Komal	Komal	Komal	Komal	Komal	Komal	Komal	Komal	Komal	Komal	Komal
38.	Patil Ashutosh Shankar	Ashutosh	Ashutosh	Ashutosh	Ashutosh	Ashutosh	Ashutosh	Ashutosh	Ashutosh	Ashutosh	Ashutosh	Ashutosh	Ashutosh	Ashutosh	Ashutosh	Ashutosh
39.	Chavan Sneha Arun	Sneha	Sneha	Sneha	Sneha	Sneha	Sneha	Sneha	Sneha	Sneha	Sneha	Sneha	Sneha	Sneha	Sneha	Sneha

  
**Mr. Sagar S. Shinde**  
 Co-ordinator

  
**Mrs. P.U. Mahamuni**  
 Head of Department  
 Head  
 Department of Physics  
 P.V.P. Mahavidyalaya  
 Kavathe Mahankal Dist-Sangli

**Shikshan Prasarak Sanstha's**  
**Padmabhushan Vasantodada Patil Mahavidyalaya, Kavathe Mahankal.**


**DEPARTMENT OF PHYSICS**

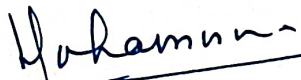
Date: 05-10-2023

**NOTICE**

All the enrolled students are informed that, the timetable for theory examination of the course in "Repairing and Maintenance of electrical instruments."

	<b>Examination</b>	<b>Date</b>	<b>Time</b>
1.	Theory	19 October, 2023	10.00 a.m. to 12.00 p.m.

  
**Mr. Sagar S. Shinde**  
Co-ordinator

  
**Mrs. P.U. Mahamuni**  
Head of Department  
Department of Physics  
P.V.P. Mahavidyalaya  
Kavathe Mahankal Dist-Sangli

**Shikshan Prasarak Sanstha's**

**Padmabhushan Vasantodada Patil Mahavidyalaya, KavatheMahankal.**

**DEPARTMENT OF PHYSICS**

**“Repairing and Maintenance of electrical instruments.”**

**Date: 19/10/2023**

**Time: 10.00 to 12.00 pm**

**Total Marks : 50**

**Q. 1) Select the correct alternatives. 50**

1) The capacitor used in the fan motor is to be connected in .....

**i) series to the starting winding**      ii) parallel to the starting winding

iii) series to the main winding      iv) parallel to the main winding

2) The ceiling fan makes noise during running due to .....

i) defective or leaky capacitor

ii) open in regulator resistor

**iii) worn out bearing and absence of grease**

iv) low applied voltage

3) Number of canopy fitted to a ceiling fan is .....

i) 1

**ii) 2**

iii) 3

iv) 4

4) The table fan is running at a very low speed, the cause is due to .....

i) open in winding

**ii) low applied voltage**

iii) defective bearing

iv) supply failure

5) Heating materials used in electric iron is .....



iii) infinity

iv) in mega ohms

13) A ceiling fan is rotating at low speed and becomes hot. Pick up the item which is not a cause .....

i) capacitors burnt out

**ii) connections of supply lead interchanged**

iii) winding earthed or partially short-circuited

iv) worn out bearings and a bent blade

14) The type of motor used in A.C. table fans now produced in India is .....

i) repulsion motor

**ii) universal motor**

iii) shaded pole motor

iv) capacitor run induction motor

15) If a table fan does not respond to operation of speed selector switch, the problem may be that the .....

i) capacitor is burnt out

ii) regulator is open-circuit

**iii) regulator is short-circuit**

iv) oscillating mechanism is defective

16) The fan regulator is provided with ceiling fan circuit is to .....

i) limit the current

**ii) drop the voltage applied to fan**

iii) increase the torque

iv) increase the life of fan

17) Which type of motor is used in ceiling fan .....

i) shaded pole motor

**ii) permanent capacitor start motor**

iii) universal motor

iv) capacitor start of run motor

18) The testing of a mixer grinder is called .....

**i) inching**

ii) plugging

iii) loading

iv) mixing

19) Ceiling fan was invented in the year .....

i) 1888

ii) 1875

iii) 1902

**iv) 1882**

20) The element of an electric iron is made of .....

- i) iron                      **ii) nickel**                      iii) nichrome                      iv) tungsten

21) Grinding is the process of removing material by a ..... action.

- i) rubbing**                      ii) cutting                      iii) polishing                      iv) wearing

22) Electric iron is invented in the year .....

- i) 1880**                      ii) 1890                      iii) 1900                      iv) 1860

23) The S.I. unit of electric current is .....

- i) ohm                      ii) meter                      **iii) ampere**                      iv) newton

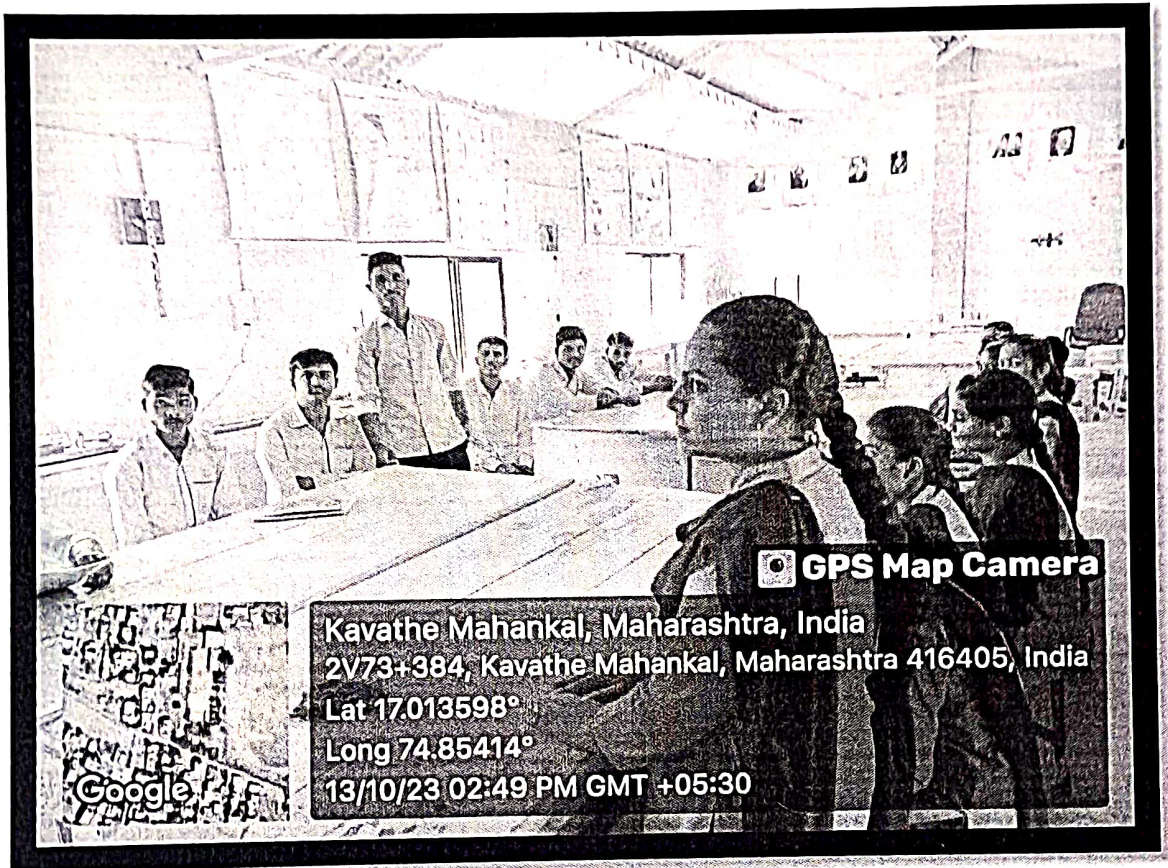
24) The ceiling fan was invented by an engineer named as .....

- i) Sir Nikola Tesla    ii) Sir Rudolf Diesel  
iii) Sir James Hillier    **iv) Sir Schuyler Skaats Wheeler**

25) The rating all electric iron is expressed in .....

- i) watt**                      ii) kVA                      iii) kWh                      iv) H

# Photographs



## Shikshan Prasarak Sanstha's


Padmabhushan Vasanttraodada Patil Mahavidyalaya, Kavathe Mahankal.

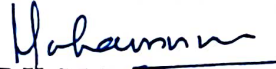
### DEPARTMENT OF PHYSICS

#### Result

Sr. No.	Name	Class	Marks
1.	Bhosale Aditya Gulabrao	B. Sc. III	26
2.	Khot Shubhangi Ravsaheb	B. Sc. III	28
3.	Yadav Om Sunil	B. Sc. III	30
4.	Sutar Shivam Rajaram	B. Sc. III	24
5.	Khamgal Rohit Keru	B. Sc. III	32
6.	Sutar Amit Raghunath	B. Sc. III	36
7.	Hiremath Shradha Santosh	B. Sc. III	44
8.	Kambale Kaveri Prakash	B. Sc. III	32
9.	Kharat Pranjali Laxman	B. Sc. III	30
10.	Limkar Pranjali Sudhir	B. Sc. III	40
11.	Patil Aditi Bajarang	B. Sc. III	42
12.	Patil Anjali Dattatray	B. Sc. III	38
13.	Patil Pranvika Shahaji	B. Sc. III	40
14.	Shinde Shradha Vitthal	B. Sc. III	46
15.	Patil Aniket Avinash	B. Sc. II	40
16.	Gambhir Darshana Mahavir	B. Sc. II	32
17.	Pawar Bablu Tukaram	B. Sc. II	30
18.	Pawar Sandesh Ganpat	B. Sc. II	28
19.	Chavan Aarya Ramesh	B. Sc. II	42
20.	Patil Sanika Sampat	B. Sc. II	40

21.	Patil Snehal Babaso	B. Sc. II	44
22.	Kadam Poonam Balkrishna	B. Sc. II	36
23.	Masal Punam Balaso	B. Sc. II	38
24.	Khot Prajwal Shahaji	B. Sc. II	32
25.	Pakhare Vaishnavi Dnyandev	B. Sc. II	44
26.	Bhosale Divyaprabha Dilip	B. Sc. II	40
27.	Pawar Kajal Appaso	B. Sc. II	46
28.	Khot Shruti Balasaheb	B. Sc. II	40
29.	Dubule Prashant Malhari	B. Sc. II	36
30.	Sargar Prathmesh Nivrutti	B. Sc. II	34
31.	Awalekar Siddhanath Anand	B. Sc. II	38
32.	Koli Harshada Dashrath	B. Sc. II	36
33.	Salunkhe Pranali Ajit	B. Sc. II	40
34.	Punekar Omkar Chagan	B. Sc. II	32
35.	Kambale Jyoti Babasaheb	B. Sc. II	36
36.	Shingade Tanuja Tanaji	B. Sc. II	38
37.	Pawar Komal Dagadu	B. Sc. II	40
38.	Patil Ashutosh Shankar	B. Sc. II	32
39.	Chavan Sneha Arun	B. Sc. II	34

  
**Mr. Sagar S. Shinde**  
 Co-ordinator

  
**Mrs. P.U. Mahamuni**  
 Head of Department  
**Head**  
**Department of Physics**  
**P.V.P. Mahavidyalaya**  
**Kavathe Mahankal Dist-Sangli**

21	Patil Snehal Babaso	B. Sc. II	44
22.	Kadam Poonam Balkrishna	B. Sc. II	36
23.	Masal Punam Balaso	B. Sc. II	38
24.	Khot Prajwal Shahaji	B. Sc. II	32
25.	Pakhare Vaishnavi Dnyandev	B. Sc. II	44
26.	Bhosale Divyaprabha Dilip	B. Sc. II	40
27.	Pawar Kajal Appaso	B. Sc. II	46
28.	Khot Shruti Balasaheb	B. Sc. II	40
29.	Dubule Prashant Malhari	B. Sc. II	36
30.	Sargar Prathmesh Nivrutti	B. Sc. II	34
31.	Awalekar Siddhanath Anand	B. Sc. II	38
32.	Koli Harshada Dashrath	B. Sc. II	36
33.	Salunkhe Pranali Ajit	B. Sc. II	40
34.	Punekar Omkar Chagan	B. Sc. II	32
35.	Kambale Jyoti Babasaheb	B. Sc. II	36
36.	Shingade Tanuja Tanaji	B. Sc. II	38
37.	Pawar Komal Dagadu	B. Sc. II	40
38.	Patil Ashutosh Shankar	B. Sc. II	32
39.	Chavan Sneha Arun	B. Sc. II	34

*Shinde*

Mr. Sagar S. Shinde  
Co-ordinator

*Mahamuni*

Mrs. P.U. Mahamuni  
Head of Department

Head  
Department of Physics  
P.V.P. Mahavidyalaya  
Kavathe Mahankal Dist-Sangli



Shikshan Prasarak Sanstha's  
Padmabhushan Vasanttraodada Patil Mahavidyalaya, Kavathe Mahankal  
Affiliated to Shivaji University, Kolhapur

## DEPARTMENT OF PHYSICS

# C E R T I F I C A T E

This is to certify that Mr./Miss/Mrs. **Sutar Amit Raghunath** of Class **BSc. III** has successfully completed the Short Term Career Oriented Certificate Course entitled "Repairing and Maintenance Of Electrical Instruments", during the academic year 2023-24.

Course Co-Ordinator  
Mr. S. S. Shinde

Head  
Department of  
Physics  
Mrs. P. U Mahamuni

Acting Principal  
Prof. (Dr.) M K Patil

Padmabhushan Vasantrodada Patil Mahavidyalaya, Kavathe Mahankal.

DEPARTMENT OF PHYSICS

Career Oriented Course in

**“Repairing and Maintenance Of  
Electrical Instruments”**

**Brief Summary**

Sr. No.	Organizing department	Department of Physics		
1	Type of Activity	Career Oriented Course in “Repairing and Maintenance Of Electrical Instruments”		
2	Duration of Activity	From 09 January 2023 to 18 Feb 2023		
3	Venue	B.Sc. III Classroom		
4	Participation			
	Students	Male	Female	Total
	B. Sc. II	09	16	25
	B. Sc. III	05	09	14
	Total			39
5	Result	Pass	Fail	Total
	B. Sc. II	25	00	25
	B. Sc. III	14	00	14
	Total	39	00	39

*S. Shinde*

Mr. Sagar S. Shinde  
Co-ordinator

*P. U. Mahamuni*

Mrs. P.U. Mahamuni  
Head of Department  
Department of Physics  
P.V.P. Mahavidyalaya  
Kavathe Mahankal Dist-Sangli