

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

**DEPARTMENT OF PHYSICS**

Career Oriented Course in

**“Introduction of Electrical Instruments”**

**(2022-23)**

Name of Institute

PADMABHUSHAN VASANTRAODADA PATIL MAHAVIDYALAYA, KAVATHE  
MAHANKAL.

TAL : KAVATHE MAHANKAL, DIST : SANGLI.

(MAHARASHTRA)

Organizer

Department of Physics

Title of the Course

Certificate Course

In

**“Introduction of Electrical Instruments”**

Types of Course Unit:

Compulsory

Duration of Course


One month/Six weeks/Sevenweeks


(From 09 January 2023 to 18 Feb 2023)

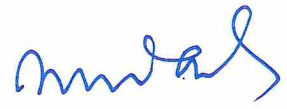
Language of instruction – English

Course co-ordinator :- Mr. SagarS.Shinde

Intake Capacity:-35

  
Mr. Sagar S. Shinde  
Co-ordinator

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

  
Dr. M.K. Patil  
Principal  
Acting Principal  
Padmabhushan Vasantodada Patil  
Mahavidyalaya, Mahankal, Dist-Sangli

# Brochure

Department of Physics

**COC in Physics  
2022-23**



**Introduction Of Electrical  
Instruments**

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## Permission Letter

From,  
Head,  
Department of Physics,  
P. V. P. College, Kavathe Mahankal, Dist.  
Sangli, Maharashtra 416405  
Date: 16/12/2022

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

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

Respected sir,

As per your guidelines we are going to start a career oriented course in "Introduction of Electrical Instruments" in Department of Physics for our college students. This course will be of 30 hours and will be completed during January 2023 to February 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.

Permission granted.

*M. W. S.*

**Acting Principal**  
Padmabhushan Vasantrodada Patil  
Mahavidyalaya, Kavathe Mahankal, Dist. Sangli

Yours faithfully,

*H. H. H.*  
**Head**

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

**ShikshanPrasarakSanstha's**

**PadmabhushanVasatraodadaPatilMahavidyalaya, KavatheMahankal.**

**DEPARTMENT OF PHYSICS**

Date: 20-12-2022

**NOTICE**

All the students in B.Sc. II and B.Sc. III are informed that, Department of Physics is going to start the careeroriented course in "Introduction of Electrical Instruments". The interested students are requested to enroll upto 31<sup>st</sup> December, 2022.



Mr. Sagar S. Shinde  
Co-ordinator



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





**ShikshanPrasarakSanstha's**  
**PadmabhushanVasatraodadaPatilMahavidyalaya, KavatheMahankal.**


**DEPARTMENT OF PHYSICS**

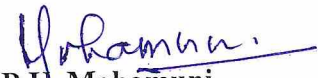
**BOARD OF STUDY**

2022-2023

Board of studies members in Certificate course in Introduction of Electrical Instruments.

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

## ShikshanPrasarakSanstha's

PadmabhushanVasatraodadaPatilMahavidyalaya, KavatheMahankal.

### DEPARTMENT OF PHYSICS

Date-15/12/2022

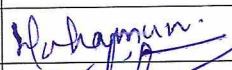


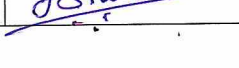
#### MEETING NOTICE


All members of the BOS in Certificate course in Repairing Introduction of Electrical Instruments. are hereby informed that a meeting is convened on 15/12/2022 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)	Mr. S.B. Patil	
3)	Dr. S.S. Shendage	
4)	Mr. Sagar. S. Shinde	

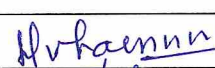

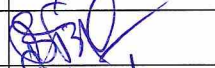

  
Mr.SagarS. Shinde  
Co-ordinator

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

## Minutes of Meeting

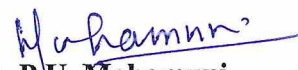
The minutes of the meeting are given below,

1. During the meeting syllabus of certificate course in Introduction of electrical instruments are prepared. It contains the theory paper of Electrical instruments 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	



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

Introduction to electrical instrument is a fundamental course that provides an overview of the basic principles and applications of Electronic Circuits. 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. Testing of electrical parameters,

### **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. Students will be able to identify and describe the functions of common electronic components, such as Oscilloscope, Diodes and Transistors.
3. Students will gain practical skills in building and testing simple electronic circuits.

These learning outcomes provide a solid foundation for further studies in Electronics.

- |    |                       |   |   |
|----|-----------------------|---|---|
| 4. | Duration of course    | : | One month.                                |
| 5. | Eligibility to course | : | B.Sc. Appear                              |
| 6. | Admission             | : | Entire B.Sc. II and III Physics Students. |

### Evaluation System:

- Theory paper: Final examination 50

Nature of Theory question paper.

- Q-1 Select the correct alternatives. 50

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

## Syllabus Theory [Total periods: 30] Paper I - Electrical Instruments

### Unit I

**Oscilloscope:** (10 hours)

Types of oscilloscope, Principle, construction and working of oscilloscope.

### Unit II

**Diodes:** (10 hours)

Types of diodes, Principle, construction and working of diodes.

### Unit III

**Transistors:** (10 hours)

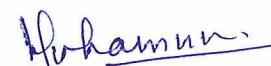
Different types of Transistors, construction and working of Transistors.

### Reference books:-

1. Basic Electricity- Prof O. B. Chaudhari, Nirali publication
2. Textbook of B.Sc.II and III.
3. Electricity and Basic electronics- Dr. P. K. Patil, Phadake publication



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**

.....  
CERTIFICATE COURSE

IN

**“Introduction of Electrical Instruments.”**

”

Work-load

**2022-2023**

Theory	Total
30	30

**Distribution Of workload**

Theory Paper

Sr.no	Name of the teacher	Workload in hours
1	Mr. Sagar S. Shinde	30



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




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


## TIMETABLE FOR CERTIFICATE COURSE (2022-23)

**Theory (30 Periods)**

**Time – 10 to 11 am**

Day	Lecturer: Mr. Sagar S. Shinde				
Monday	09/01/2023	16/01/2023	23/01/2023	06/02/2023	13/02/2023
Tuesday	10/01/2023	17/01/2023	24/01/2023	07/02/2023	14/02/2023
Wednesday	11/01/2023	18/01/2023	25/01/2023	08/02/2023	15/02/2023
Thursday	12/01/2023	19/01/2023	26/01/2023	09/02/2023	16/02/2023
Friday	13/01/2023	20/01/2023	27/01/2023	10/02/2023	17/02/2023
Saturday	14/01/2023	21/01/2023	28/01/2023	11/02/2023	18/02/2023

  
**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

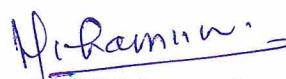
**Shikshan Prasarak Sanstha's**  
**Padmabhushan Vasantodada Patil Mahavidyalaya, Kavathe Mahankal.**  
**DEPARTMENT OF PHYSICS**

Date: 31-12-2022

**NOTICE**

All the enrolled students are informed that, the lectures of the course will be started from 9<sup>th</sup> January, 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  
**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

#### Attendance

Sr. No	Name	Sign									
		20/01 23	21/01 23	23/01 23	24/01 23	25/01 23	26/01 23	27/01 23	28/01 23	06/02 23	07/02 23
1.	Patil Aditya Sahebrao	<u>Aspatil</u>	<u>Aspatil</u>	<u>Aspatil</u>	AB	<u>Aspatil</u>	<u>Aspatil</u>	<u>Aspatil</u>	<u>Aspatil</u>	<u>Aspatil</u>	AB.
2.	Kashid Avinash Anil	<u>KAA</u>	<u>KAA</u>	<u>KAA</u>	<u>KAA</u>	<u>KAA</u>	<u>KAA</u>	<u>KAA</u>	AB	<u>KAA</u>	<u>KAA</u>
3.	Mali Saurabh Manohar	AB	<u>MS</u>	<u>MS</u>	<u>MS</u>	<u>MS</u>	AB	<u>MS</u>	<u>MS</u>	<u>MS</u>	<u>MS</u>
4.	Patil Jayashree Audumber	<u>PJA</u>	AB	<u>PJA</u>	<u>PJA</u>	<u>PJA</u>	<u>PJA</u>	<u>PJA</u>	<u>PJA</u>	AB	<u>PJA</u>
5.	Pawar Amarjit Uttam	<u>PAU</u>	<u>PAU</u>	<u>PAU</u>	<u>PAU</u>	<u>PAU</u>	<u>PAU</u>	<u>PAU</u>	<u>PAU</u>	AB.	<u>PAU.</u>
6.	Patil Arati Vijay	AB	<u>AVP</u>	<u>AVP</u>	<u>AVP</u>	<u>AVP</u>	AB	<u>AVP</u>	<u>AVP</u>	<u>AVP</u>	AB.
7.	Jadhav Arati Tanaji	<u>Adhav</u>	<u>Adhav</u>	<u>Adhav</u>	<u>Adhav</u>	<u>Adhav</u>	<u>Adhav</u>	<u>Adhav</u>	<u>Adhav</u>	<u>Adhav</u>	<u>Adhav</u>
8.	Shinde Ashwini Pandurang	<u>A.P.Shinde</u>	<u>A.P.Shinde</u>	<u>A.P.Shinde</u>	<u>A.P.Shinde</u>	<u>A.P.Shinde</u>	<u>A.P.Shinde</u>	<u>A.P.Shinde</u>	<u>A.P.Shinde</u>	<u>A.P.Shinde</u>	<u>A.P.Shinde</u>
9.	Shinde Shraddha Vitthal	<u>Shradha</u>	<u>Shradha</u>	<u>Shradha</u>	<u>Shradha</u>	<u>Shradha</u>	<u>Shradha</u>	<u>Shradha</u>	<u>Shradha</u>	<u>Shradha</u>	<u>Shradha</u>
10.	Mali Priyanka Balu	<u>Pmali</u>	<u>Pmali</u>	<u>Pmali</u>	<u>Pmali</u>	<u>Pmali</u>	<u>Pmali</u>	<u>Pmali</u>	<u>Pmali</u>	<u>Pmali</u>	<u>Pmali</u>
11.	Patil Pranavika Shahaji	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>
12.	Patil Anjali Dattatraya	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>
13.	Kambale Rohan Rajesh	<u>Kambale</u>	<u>Kambale</u>	<u>Kambale</u>	<u>Kambale</u>	<u>Kambale</u>	<u>Kambale</u>	<u>Kambale</u>	<u>Kambale</u>	<u>Kambale</u>	<u>Kambale</u>

14.	Kharade Rupali Ramchandra	R.R.K	R.R.K	AB	R.R.K	R.R.K	R.R.K	R.R.K	R.R.K	R.R.K	R.R.K	AB
15.	Jadhav Purnima Sanjay	<del>Pd</del>	<del>Pd</del>	<del>Pd</del>	<del>Pd</del>	<del>Pd</del>	<del>Pd</del>	<del>Pd</del>	<del>Pd</del>	<del>Pd</del>	<del>Pd</del>	<del>Pd</del>
16.	Dalavi Aishwarya gajanan	<del>Aishwarya</del>	<del>Aishwarya</del>	<del>Aishwarya</del>	<del>Aishwarya</del>	<del>Aishwarya</del>	<del>Aishwarya</del>	<del>Aishwarya</del>	<del>Aishwarya</del>	<del>Aishwarya</del>	<del>Aishwarya</del>	<del>Aishwarya</del>
17.	Mane Rutuja Anil	R.A.M	R.A.M	R.A.M	R.A.M	R.A.M	R.A.M	AB	R.A.M	R.A.M	R.A.M	R.A.M
18.	Shirkr Ashwini Shivaji	ASS	ASS	AB	ASS	ASS	ASS	ASS	ASS	ASS	ASS	AB
19.	Phakade Pratibha Mohan	<del>Pratik</del>	<del>Pratik</del>	<del>Pratik</del>	<del>Pratik</del>	<del>Pratik</del>	<del>Pratik</del>	<del>Pratik</del>	<del>Pratik</del>	<del>Pratik</del>	<del>Pratik</del>	<del>Pratik</del>
20.	Latthe Rohini Mukesh	<del>R.Latthe</del>	<del>R.Latthe</del>	<del>R.Latthe</del>	<del>R.Latthe</del>	<del>R.Latthe</del>	<del>R.Latthe</del>	<del>R.Latthe</del>	<del>R.Latthe</del>	<del>R.Latthe</del>	<del>R.Latthe</del>	<del>R.Latthe</del>
21.	Phakade Pravina Baban	<del>Prakade</del>	<del>Prakade</del>	<del>Prakade</del>	<del>Prakade</del>	<del>Prakade</del>	<del>Prakade</del>	<del>Prakade</del>	<del>Prakade</del>	<del>Prakade</del>	<del>Prakade</del>	<del>Prakade</del>
22.	Phadatare Shobha Pandit	AB	<del>standit</del>	<del>standit</del>	<del>standit</del>	<del>standit</del>	AB	<del>standit</del>	<del>standit</del>	AB	<del>standit</del>	<del>standit</del>
23.	Chavan Bharati Shashikant	<del>BCE</del>	<del>BCE</del>	<del>BCE</del>	<del>BCE</del>	<del>BCE</del>	<del>BCE</del>	<del>BCE</del>	AB	<del>BCE</del>	<del>BCE</del>	<del>BCE</del>
24.	Kute Pranav Kundalik	<del>PK</del>	<del>PK</del>	<del>PK</del>	AB	<del>PK</del>	<del>PK</del>	<del>PK</del>	<del>PK</del>	<del>PK</del>	<del>PK</del>	AB
25.	Bandagar Vishal Annaso	V.A.B.	AB	V.A.B.	V.A.B.	V.A.B.	V.A.B.	V.A.B.	V.A.B.	V.A.B.	AB	V.A.B.
26.	Kadam Aniket Mahadev	<del>A.M.Kadam</del>	<del>A.M.Kadam</del>	<del>A.M.Kadam</del>	<del>A.M.Kadam</del>	<del>A.M.Kadam</del>	AB	<del>A.M.Kadam</del>	<del>A.M.Kadam</del>	<del>A.M.Kadam</del>	<del>A.M.Kadam</del>	<del>A.M.Kadam</del>
27.	Bhosale Sushmita Abaso	<del>S.Bhosale</del>	<del>S.Bhosale</del>	<del>S.Bhosale</del>	<del>S.Bhosale</del>	<del>S.Bhosale</del>	<del>S.Bhosale</del>	<del>S.Bhosale</del>	<del>S.Bhosale</del>	<del>S.Bhosale</del>	<del>S.Bhosale</del>	<del>S.Bhosale</del>
28.	Pawar Yogita Anil	Y.A.P	Y.A.P	Y.A.P	Y.A.P	Y.A.P	AB	Y.A.P	Y.A.P	Y.A.P	Y.A.P	Y.A.P
29.	Bhosale Sanika Sanjay	<del>S.Bhosale</del>	<del>S.Bhosale</del>	<del>S.Bhosale</del>	<del>S.Bhosale</del>	<del>S.Bhosale</del>	<del>S.Bhosale</del>	<del>S.Bhosale</del>	<del>S.Bhosale</del>	<del>S.Bhosale</del>	<del>S.Bhosale</del>	<del>S.Bhosale</del>
30.	Chavan Swati Deepak	<del>SDC</del>	AB	<del>SDC</del>	<del>SDC</del>	<del>SDC</del>	<del>SDC</del>	<del>SDC</del>	<del>SDC</del>	<del>SDC</del>	AB	<del>SDC</del>
31.	Hiremath Shraddha Santosh	<del>S.Hiremath</del>	<del>S.Hiremath</del>	<del>S.Hiremath</del>	<del>S.Hiremath</del>	<del>S.Hiremath</del>	<del>S.Hiremath</del>	<del>S.Hiremath</del>	<del>S.Hiremath</del>	<del>S.Hiremath</del>	<del>S.Hiremath</del>	<del>S.Hiremath</del>
32.	Patil Akshata Balaso	<del>A.Patil</del>	<del>A.Patil</del>	<del>A.Patil</del>	<del>A.Patil</del>	<del>A.Patil</del>	<del>A.Patil</del>	<del>A.Patil</del>	<del>A.Patil</del>	<del>A.Patil</del>	<del>A.Patil</del>	<del>A.Patil</del>
33.	Kedar Pratiksha Subhash	<del>P.S.Kedar</del>	<del>P.S.Kedar</del>	<del>P.S.Kedar</del>	<del>P.S.Kedar</del>	<del>P.S.Kedar</del>	<del>P.S.Kedar</del>	<del>P.S.Kedar</del>	<del>P.S.Kedar</del>	<del>P.S.Kedar</del>	<del>P.S.Kedar</del>	<del>P.S.Kedar</del>
34.	Patil Aditi Bajarang	<del>A.Patil</del>	<del>A.Patil</del>	<del>A.Patil</del>	<del>A.Patil</del>	<del>A.Patil</del>	<del>A.Patil</del>	<del>A.Patil</del>	<del>A.Patil</del>	<del>A.Patil</del>	<del>A.Patil</del>	<del>A.Patil</del>
35.	Patil Pranali Rajendra	<del>P.Patil</del>	<del>P.Patil</del>	<del>P.Patil</del>	<del>P.Patil</del>	<del>P.Patil</del>	<del>P.Patil</del>	<del>P.Patil</del>	<del>P.Patil</del>	<del>P.Patil</del>	<del>P.Patil</del>	<del>P.Patil</del>

## Shikshan Prasarak Sanstha's

Padmabhushan Vasanttraodada Patil Mahavidyalaya, Kavathe Mahankal.

### DEPARTMENT OF PHYSICS

#### Attendance

Sr. No	Name	Sign									
		09/01 23	10/01 23	11/01 23	12/01 23	13/01 23	14/01 23	16/01 23	17/01 23	18/01 23	19/01 23
1.	Patil Aditya Sahebrao	<u>Aspatil</u>	<u>Aspatil</u>	<u>Aspatil</u>	AS	<u>Aspatil</u>	<u>Aspatil</u>	<u>Aspatil</u>	<u>Aspatil</u>	<u>Aspatil</u>	<u>Aspatil</u>
2.	Kashid Avinash Anil	<u>KAA</u>	AB	<u>KAA</u>	<u>KAA</u>	<u>KAA</u>	<u>KAA</u>	<u>KAA</u>	<u>KAA</u>	<u>KAA</u>	<u>KAA</u>
3.	Mali Saurabh Manohar	<u>MS</u>	<u>MS</u>	<u>MS</u>	<u>MS</u>	AB	<u>MS</u>	<u>MS</u>	<u>MS</u>	<u>MS</u>	AB
4.	Patil Jayashree Audumber	AB	<u>PJA</u>	<u>PJA</u>	<u>PJA</u>	<u>PJA</u>	AB	<u>PJA</u>	<u>PJA</u>	<u>PJA</u>	AB
5.	Pawar Amarjit Uttam	<u>PAU</u>	<u>PAU</u>	AB	<u>PAU</u>	<u>PAU</u>	<u>PAU</u>	<u>PAU</u>	<u>PAU</u>	<u>PAU</u>	<u>PAU</u>
6.	Patil Arati Vijay	AB	<u>AVP</u>	<u>AVP</u>	<u>AVP</u>	<u>AVP</u>	<u>AVP</u>	AB	<u>AVP</u>	<u>AVP</u>	<u>AVP</u>
7.	Jadhav Arati Tanaji	<u>Adadhav</u>	<u>Adadhav</u>	<u>Adadhav</u>	<u>Adadhav</u>	<u>Adadhav</u>	<u>Adadhav</u>	<u>Adadhav</u>	<u>Adadhav</u>	<u>Adadhav</u>	<u>Adadhav</u>
8.	Shinde Ashwini Pandurang	<u>A.P.Shinde</u>	<u>A.P.Shinde</u>	<u>A.P.Shinde</u>	<u>A.P.Shinde</u>	<u>A.P.Shinde</u>	<u>A.P.Shinde</u>	<u>A.P.Shinde</u>	<u>A.P.Shinde</u>	<u>A.P.Shinde</u>	<u>A.P.Shinde</u>
9.	Shinde Shraddha Vitthal	<u>Shraddha</u>	<u>Shraddha</u>	<u>Shraddha</u>	<u>Shraddha</u>	<u>Shraddha</u>	<u>Shraddha</u>	<u>Shraddha</u>	<u>Shraddha</u>	<u>Shraddha</u>	<u>Shraddha</u>
10.	Mali Priyanka Balu	<u>Pmali</u>	<u>Pmali</u>	<u>Pmali</u>	<u>Pmali</u>	<u>Pmali</u>	<u>Pmali</u>	<u>Pmali</u>	<u>Pmali</u>	<u>Pmali</u>	<u>Pmali</u>
11.	Patil Pranavika Shahaji	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>
12.	Patil Anjali Dattatraya	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>
13.	Kambale Rohan Rajesh	<u>Roh</u>	<u>Roh</u>	<u>Roh</u>	<u>Roh</u>	<u>Roh</u>	<u>Roh</u>	<u>Roh</u>	<u>Roh</u>	<u>Roh</u>	<u>Roh</u>

14.	Kharade Rupali Ramchandra	R.R.K	R.R.K	AB	R.R.K	R.R.K	R.R.K	R.R.K	R.R.K	R.R.K	R.R.K	R.R.K
15.	Jadhav Purnima Sanjay	<del>Pjadh</del>	<del>Pjadh</del>	<del>Pjadh</del>	<del>Pjadh</del>	<del>Pjadh</del>	<del>Pjadh</del>	<del>Pjadh</del>	<del>Pjadh</del>	<del>Pjadh</del>	<del>Pjadh</del>	<del>Pjadh</del>
16.	Dalavi Aishwarya gajanan	<del>Aishwarya</del>	<del>Aishwarya</del>	<del>Aishwarya</del>	<del>Aishwarya</del>	<del>Aishwarya</del>	<del>Aishwarya</del>	<del>Aishwarya</del>	<del>Aishwarya</del>	<del>Aishwarya</del>	<del>Aishwarya</del>	<del>Aishwarya</del>
17.	Mane Rutuja Anil	R.A.M	R.A.M	R.A.M	R.A.M	R.A.M	AB	R.A.M	R.A.M	R.A.M	R.A.M	R.A.M
18.	Shirkr Ashwini Shivaji	ASS	ASS	AB	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS
19.	Phakade Pratibha Mohan	<del>Prakade</del>	<del>Prakade</del>	<del>Prakade</del>	<del>Prakade</del>	<del>Prakade</del>	<del>Prakade</del>	<del>Prakade</del>	<del>Prakade</del>	<del>Prakade</del>	<del>Prakade</del>	<del>Prakade</del>
20.	Latthe Rohini Mukesh	<del>Rolathe</del>	<del>Rolathe</del>	<del>Rolathe</del>	<del>Rolathe</del>	<del>Rolathe</del>	<del>Rolathe</del>	<del>Rolathe</del>	<del>Rolathe</del>	<del>Rolathe</del>	<del>Rolathe</del>	<del>Rolathe</del>
21.	Phakade Pravina Baban	<del>Prakade</del>	<del>Prakade</del>	<del>Prakade</del>	<del>Prakade</del>	<del>Prakade</del>	<del>Prakade</del>	<del>Prakade</del>	<del>Prakade</del>	<del>Prakade</del>	<del>Prakade</del>	<del>Prakade</del>
22.	Phadatare Shobha Pandit	spandit	spandit	spandit	spandit	spandit	AB	spandit	spandit	spandit	spandit	spandit
23.	Chavan Bharati Shashikant	AB	BSE	BSE	BSE	BSE	BSE	BSE	BSE	BSE	BSE	BSE
24.	Kute Pranav Kundalik	PK	R	AB	PK	PK	PK	PK	PK	PK	AB	PK
25.	Bandagar Vishal Annaso	V.A.B	V.A.B	V.A.B	V.A.B	V.A.B	AB	V.A.B	V.A.B	V.A.B	V.A.B	V.A.B
26.	Kadam Aniket Mahadev	AB	<del>AMKadam</del>	<del>AMKadam</del>	<del>AMKadam</del>	<del>AMKadam</del>	<del>AMKadam</del>	<del>AMKadam</del>	<del>AMKadam</del>	<del>AMKadam</del>	<del>AMKadam</del>	<del>AMKadam</del>
27.	Bhosale Sushmita Abaso	<del>Bhosale</del>	<del>Bhosale</del>	<del>Bhosale</del>	<del>Bhosale</del>	<del>Bhosale</del>	<del>Bhosale</del>	<del>Bhosale</del>	<del>Bhosale</del>	<del>Bhosale</del>	<del>Bhosale</del>	<del>Bhosale</del>
28.	Pawar Yogita Anil	Y.A.P	Y.A.P	Y.A.P	Y.A.P	Y.A.P	AB	Y.A.P	Y.A.P	Y.A.P	Y.A.P	Y.A.P
29.	Bhosale Sanika Sanjay	<del>Bhosale</del>	<del>Bhosale</del>	<del>Bhosale</del>	<del>Bhosale</del>	<del>Bhosale</del>	<del>Bhosale</del>	<del>Bhosale</del>	<del>Bhosale</del>	<del>Bhosale</del>	<del>Bhosale</del>	<del>Bhosale</del>
30.	Chavan Swati Deepak	<del>SDC</del>	<del>SDC</del>	AB	<del>SDC</del>	<del>SDC</del>	<del>SDC</del>	AB	<del>SDC</del>	<del>SDC</del>	<del>SDC</del>	<del>SDC</del>
31.	Hiremath Shraddha Santosh	<del>Shiremath</del>	AB	<del>Shiremath</del>	<del>Shiremath</del>	<del>Shiremath</del>	<del>Shiremath</del>	<del>Shiremath</del>	<del>Shiremath</del>	<del>Shiremath</del>	<del>Shiremath</del>	AB
32.	Patil Akshata Balaso	<del>Apatil</del>	<del>Apatil</del>	<del>Apatil</del>	<del>Apatil</del>	<del>Apatil</del>	<del>Apatil</del>	<del>Apatil</del>	<del>Apatil</del>	<del>Apatil</del>	<del>Apatil</del>	<del>Apatil</del>
33.	Kedar Pratiksha Subhash	<del>P.S.Keedar</del>	<del>P.S.Keedar</del>	<del>P.S.Keedar</del>	<del>P.S.Keedar</del>	<del>P.S.Keedar</del>	<del>P.S.Keedar</del>	<del>P.S.Keedar</del>	<del>P.S.Keedar</del>	<del>P.S.Keedar</del>	<del>P.S.Keedar</del>	<del>P.S.Keedar</del>
34.	Patil Aditi Bajarang	<del>ADPatil</del>	<del>ADPatil</del>	<del>ADPatil</del>	<del>ADPatil</del>	<del>ADPatil</del>	<del>ADPatil</del>	<del>ADPatil</del>	<del>ADPatil</del>	<del>ADPatil</del>	<del>ADPatil</del>	<del>ADPatil</del>
35.	Patil Pranali Rajendra	<del>Ppatil</del>	<del>Ppatil</del>	<del>Ppatil</del>	<del>Ppatil</del>	<del>Ppatil</del>	<del>Ppatil</del>	<del>Ppatil</del>	<del>Ppatil</del>	<del>Ppatil</del>	<del>Ppatil</del>	<del>Ppatil</del>

## Shikshan Prasarak Sanstha's

Padmabhushan Vasanttraodada Patil Mahavidyalaya, Kavathe Mahankal.

### DEPARTMENT OF PHYSICS

#### Attendance

Sr. No	Name	Sign									
		08/02 23	09/02 23	10/02 23	11/02 23	13/02 23	14/02 23	15/02 23	16/02 23	17/02 23	18/02 23
1.	Patil Aditya Sahebrao	<u>ASPatil</u>	<u>ASPatil</u>	AB	<u>ASPatil</u>	<u>ASPatil</u>	<u>ASPatil</u>	<u>ASPatil</u>	<u>ASPatil</u>	<u>ASPatil</u>	<u>ASPatil</u>
2.	Kashid Avinash Anil	<u>KAA</u>	<u>KAA</u>	<u>KAA</u>	<u>KAA</u>	<u>KAA</u>	AB	<u>KAA</u>	<u>KAA</u>	<u>KAA</u>	<u>KAA</u>
3.	Mali Saurabh Manohar	<u>AM</u>	<u>AM</u>	<u>AM</u>	<u>AM</u>	<u>AM</u>	<u>AM</u>	<u>AM</u>	<u>AM</u>	AB	<u>AM</u>
4.	Patil Jayashree Audumber	<u>PJA</u>	AB	<u>PJA</u>	<u>PJA</u>	<u>PJA</u>	<u>PJA</u>	AB	<u>PJA</u>	<u>PJA</u>	AB
5.	Pawar Amarjit Uttam	<u>PAU</u>	<u>PAU</u>	<u>PAU</u>	<u>PAU</u>	<u>PAU</u>	<u>PAU</u>	<u>PAU</u>	AB	<u>PAU</u>	<u>PAU</u>
6.	Patil Arati Vijay	<u>AVP</u>	<u>AVP</u>	<u>AVP</u>	AB	<u>AVP</u>	AB	<u>AVP</u>	<u>AVP</u>	<u>AVP</u>	<u>AVP</u>
7.	Jadhav Arati Tanaji	<u>Aadhav</u>	<u>Aadhav</u>	<u>Aadhav</u>	<u>Aadhav</u>	<u>Aadhav</u>	<u>Aadhav</u>	<u>Aadhav</u>	<u>Aadhav</u>	<u>Aadhav</u>	<u>Aadhav</u>
8.	Shinde Ashwini Pandurang	<u>A.P.Shinde</u>	<u>A.P.Shinde</u>	<u>A.P.Shinde</u>	<u>A.P.Shinde</u>	<u>A.P.Shinde</u>	<u>A.P.Shinde</u>	<u>A.P.Shinde</u>	<u>A.P.Shinde</u>	<u>A.P.Shinde</u>	<u>A.P.Shinde</u>
9.	Shinde Shraddha Vitthal	<u>Shreddha</u>	<u>Shreddha</u>	<u>Shreddha</u>	<u>Shreddha</u>	<u>Shreddha</u>	<u>Shreddha</u>	<u>Shreddha</u>	<u>Shreddha</u>	<u>Shreddha</u>	<u>Shreddha</u>
10.	Mali Priyanka Balu	<u>Bmali</u>	<u>Bmali</u>	<u>Bmali</u>	<u>Bmali</u>	<u>Bmali</u>	<u>Bmali</u>	<u>Bmali</u>	<u>Bmali</u>	<u>Bmali</u>	<u>Bmali</u>
11.	Patil Pranavika Shahaji	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>
12.	Patil Anjali Dattatraya	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>
13.	Kambale Rohan Rajesh	<u>Kambale</u>	<u>Kambale</u>	<u>Kambale</u>	<u>Kambale</u>	<u>Kambale</u>	<u>Kambale</u>	<u>Kambale</u>	<u>Kambale</u>	<u>Kambale</u>	<u>Kambale</u>

14.	Kharade Rupali Ramchandra	R.R.K	R.R.K	R.R.K	AB	R.R.K	R.R.K	R.R.K	R.R.K	R.R.K	R.R.K	R.R.K
15.	Jadhav Purnima Sanjay	<del>P.P.</del>	<del>P.P.</del>	<del>P.P.</del>	<del>P.P.</del>	<del>P.P.</del>	<del>P.P.</del>	<del>P.P.</del>	<del>P.P.</del>	<del>P.P.</del>	<del>P.P.</del>	<del>P.P.</del>
16.	Dalavi Aishwarya gajanan	<del>A.A.</del>	<del>A.A.</del>	<del>A.A.</del>	<del>A.A.</del>	<del>A.A.</del>	<del>A.A.</del>	<del>A.A.</del>	<del>A.A.</del>	<del>A.A.</del>	<del>A.A.</del>	<del>A.A.</del>
17.	Mane Rutuja Anil	R.A.M	R.A.M	R.A.M	R.A.M	R.A.M	R.A.M	R.A.M	R.A.M	AB	R.A.M	R.A.M
18.	Shirkr Ashwini Shivaji	A.S.S	A.S.S	AB	A.S.S	A.S.S	A.S.S	A.S.S	A.S.S	A.S.S	A.S.S	A.S.S
19.	Phakade Pratibha Mohan	<del>P.P.</del>	<del>P.P.</del>	<del>P.P.</del>	<del>P.P.</del>	<del>P.P.</del>	<del>P.P.</del>	<del>P.P.</del>	<del>P.P.</del>	<del>P.P.</del>	<del>P.P.</del>	<del>P.P.</del>
20.	Latthe Rohini Mukesh	<del>R.L.</del>	<del>R.L.</del>	<del>R.L.</del>	<del>R.L.</del>	<del>R.L.</del>	<del>R.L.</del>	<del>R.L.</del>	<del>R.L.</del>	<del>R.L.</del>	<del>R.L.</del>	<del>R.L.</del>
21.	Phakade Pravina Baban	<del>P.P.</del>	<del>P.P.</del>	<del>P.P.</del>	<del>P.P.</del>	<del>P.P.</del>	<del>P.P.</del>	<del>P.P.</del>	<del>P.P.</del>	<del>P.P.</del>	<del>P.P.</del>	<del>P.P.</del>
22.	Phadatare Shobha Pandit	<del>S.P.</del>	<del>S.P.</del>	<del>S.P.</del>	<del>S.P.</del>	<del>S.P.</del>	<del>S.P.</del>	<del>S.P.</del>	<del>S.P.</del>	<del>S.P.</del>	<del>S.P.</del>	<del>S.P.</del>
23.	Chavan Bharati Shashikant	<del>B.C.</del>	<del>B.C.</del>	AB	<del>B.C.</del>	<del>B.C.</del>	<del>B.C.</del>	<del>B.C.</del>	<del>B.C.</del>	<del>B.C.</del>	<del>B.C.</del>	<del>B.C.</del>
24.	Kute Pranav Kundalik	P.K	P.K	P.K	P.K	P.K	P.K	P.K	P.K	AB	P.K	P.K
25.	Bandagar Vishal Annaso	V.A.B	V.A.B	V.A.B	V.A.B	V.A.B	AB	V.A.B	V.A.B	V.A.B	V.A.B	AB
26.	Kadam Aniket Mahadev	AB	<del>A.M.</del>	<del>A.M.</del>	<del>A.M.</del>	<del>A.M.</del>	<del>A.M.</del>	<del>A.M.</del>	<del>A.M.</del>	<del>A.M.</del>	<del>A.M.</del>	<del>A.M.</del>
27.	Bhosale Sushmita Abaso	<del>S.B.</del>	<del>S.B.</del>	<del>S.B.</del>	<del>S.B.</del>	<del>S.B.</del>	<del>S.B.</del>	<del>S.B.</del>	<del>S.B.</del>	<del>S.B.</del>	<del>S.B.</del>	<del>S.B.</del>
28.	Pawar Yogita Anil	Y.A.P	Y.A.P	AB	Y.A.P	Y.A.P	Y.A.P	Y.A.P	Y.A.P	Y.A.P	Y.A.P	AB
29.	Bhosale Sanika Sanjay	<del>S.B.</del>	<del>S.B.</del>	<del>S.B.</del>	<del>S.B.</del>	<del>S.B.</del>	<del>S.B.</del>	<del>S.B.</del>	<del>S.B.</del>	<del>S.B.</del>	<del>S.B.</del>	<del>S.B.</del>
30.	Chavan Swati Deepak	<del>S.D.C</del>	<del>S.D.C</del>	<del>S.D.C</del>	AB	<del>S.D.C</del>	<del>S.D.C</del>	<del>S.D.C</del>	<del>S.D.C</del>	<del>S.D.C</del>	<del>S.D.C</del>	<del>S.D.C</del>
31.	Hiremath Shraddha Santosh	<del>S.H.</del>	<del>S.H.</del>	<del>S.H.</del>	<del>S.H.</del>	<del>S.H.</del>	<del>S.H.</del>	<del>S.H.</del>	<del>S.H.</del>	<del>S.H.</del>	<del>S.H.</del>	<del>S.H.</del>
32.	Patil Akshata Balaso	<del>A.P.</del>	<del>A.P.</del>	<del>A.P.</del>	<del>A.P.</del>	<del>A.P.</del>	<del>A.P.</del>	<del>A.P.</del>	<del>A.P.</del>	<del>A.P.</del>	<del>A.P.</del>	<del>A.P.</del>
33.	Kedar Pratiksha Subhash	<del>P.S.</del>	<del>P.S.</del>	<del>P.S.</del>	<del>P.S.</del>	<del>P.S.</del>	<del>P.S.</del>	<del>P.S.</del>	<del>P.S.</del>	<del>P.S.</del>	<del>P.S.</del>	<del>P.S.</del>
34.	Patil Aditi Bajarang	<del>A.P.</del>	<del>A.P.</del>	<del>A.P.</del>	<del>A.P.</del>	<del>A.P.</del>	<del>A.P.</del>	<del>A.P.</del>	<del>A.P.</del>	<del>A.P.</del>	<del>A.P.</del>	<del>A.P.</del>
35.	Patil Pranali Rajendra	<del>P.P.</del>	<del>P.P.</del>	<del>P.P.</del>	<del>P.P.</del>	<del>P.P.</del>	<del>P.P.</del>	<del>P.P.</del>	<del>P.P.</del>	<del>P.P.</del>	<del>P.P.</del>	<del>P.P.</del>

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


Date: 22-02-2023

**NOTICE**

All the enrolled students are informed that, the timetable for theory examination and practical examination of the course in "Introduction of Electrical Instruments."

	<b>Examination</b>	<b>Date</b>	<b>Time</b>
1.	Theory	27 Feb, 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 Vasanttraodada Patil Mahavidyalaya, KavatheMahankal.**

**DEPARTMENT OF PHYSICS**

**Theory Examination**

**Time: 10.00 to 12.00 pm**

**Total Marks : 50**

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

**50**

1) What is the primary function of an oscilloscope?

i) measure Resistance

ii) measure current

iii) visualize & analyse electronic signal

iv) generate audio signals

2) How is voltage represented on the vertical axis of an oscilloscope display?

i) Time

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3) Which component of an oscilloscope allows to change the voltage scale of waveform displayed on the screen?

i) probe

ii) trigger

iii) time base

iv) vertical scale

4) What are the two terminals of a diode called?

i) Anode and Cathode

ii) Base and Emitter

iii) Collector and Emitter

iv) Drain and Source

5) A diode is a ..... electronic component.

i) active

ii) passive

iii) both (i) & (ii)

iv) none of the above

6) LED stands for.....

i) Light Electric Diode

ii) Light Ejecting Display

iii) Light Ejecting Diode

iv) Light Emitting Diode

7) Wavelength of Laser light is.....

- i) 3500 to 8000 Å
- ii) 3600 to 7500 Å
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# Photographs

## Theory Lecture :




## ShikshanPrasarakSanstha's


PadmabhushanVasatraodadaPatilMahavidyalaya, KavatheMahankal.

### DEPARTMENT OF PHYSICS- Result

Sr. No.	Name	Class	Theory
1.	PatilAdityaSahebrao	B. Sc. III	36
2.	KashidAvinash Anil	B. Sc. III	34
3.	Mali SaurabhManohar	B. Sc. III	38
4.	PatilJayashreeAudumber	B. Sc. III	32
5.	PawarAmarjitUttam	B. Sc. III	36
6.	PatilArati Vijay	B. Sc. II	38
7.	JadhavAratiTanaji	B. Sc. II	40
8.	ShindeAshwiniPandurang	B. Sc. II	42
9.	ShindeShraddhaVitthal	B. Sc. II	30
10.	Mali PriyankaBalu	B. Sc. II	34
11.	PatilPranavikaShahaji	B. Sc. II	38
12.	Patil Anjali Dattatraya	B. Sc. II	32
13.	KambaleRohan Rajesh	B. Sc. II	42
14.	KharadeRupaliRamchandra	B. Sc. II	38
15.	JadhavPurnima Sanjay	B. Sc. II	46
16.	DalaviAishwaryagajanan	B. Sc. II	28
17.	Mane Rutuja Anil	B. Sc. II	26
18.	ShirkrAshwiniShivaji	B. Sc. II	32

19.	PhakadePratibha Mohan	B. Sc. II	36
20.	LattheRohiniMukesh	B. Sc. II	34
21.	PhakadePravinaBaban	B. Sc. II	40
22.	PhadatareShobhaPandit	B. Sc. II	32
23.	ChavanBharatiShashikant	B. Sc. II	36
24.	KutePranavKundalik	B. Sc. II	30
25.	Bandagar Vishal Annaso	B. Sc. II	36
26.	KadamAniketMahadev	B. Sc. II	40
27.	BhosaleSushmitaAbaso	B. Sc. II	42
28.	PawarYogita Anil	B. Sc. II	44
29.	BhosaleSanika Sanjay	B. Sc. II	42
30.	Chavan Swati deepak	B. Sc. II	44
31.	HiremathShraddhaSantosh	B. Sc. II	46
32.	PatilAkshataBalaso	B. Sc. II	42
33.	KedarPratikshaSubhash	B. Sc. II	40
34.	PatilAditiBajarang	B. Sc. II	42
35.	PatilPranaliRajendra	B. Sc. II	44

  
Mr. Sagar S. Shinde  
Co-ordinator

  
Mrs. P.U. Mahaduni  
Head of Department  
Department of Physics  
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**Shikshan Prasarak Sanstha's**  
**Padmabhushan Vasantodada Patil Mahavidyalaya, KavatheMahankal.**

**DEPARTMENT OF PHYSICS**

**Report on Career Oriented Course in "Introduction of Electrical Instruments"**

<b>Title</b>	<b>Career Oriented Course in "Introduction of Electrical Instruments."</b>
<b>Duration</b>	<b>From 09 January 2023 to 18 Feb 2023.</b>
<b>Organizer</b>	<b>Department of Physics.</b>
<b>BOS members</b>	Mrs. P.U. Mahamuni Asso. Prof. S.B. Patil Dr. S.S. Shendage Mr. Sagar S. Shinde
<b>Co-Ordinator</b>	Mr. Sagar S. Shinde
<b>Objective</b>	Introduction to electrical instrument is a fundamental course that provides an overview of the basic principles and applications of Electronic Circuits 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.
<b>Outcomes and Conclusion</b>	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.

	Students will be able to identify and describe the functions of common electronic components, such as Oscilloscope, Diodes and Transistors.
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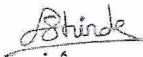
# CERTIFICATE





Shikshan Prasarak Sanstha's  
Padmabhushan Vasantrodada 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. \_\_\_\_\_ of Class \_\_\_\_\_ has successfully completed the Short Term Career Oriented Certificate Course entitled 'INTRODUCTION OF ELECTRICAL INSTRUMENTS', during the academic year 2022-23.

  
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

**“Introduction of Electrical Instruments”**

**Brief Summary**

Sr. No.	Organizing department	Department of Physics		
		Male	Female	Total
1	Type of Activity	Career Oriented Course in “Introduction of electrical instruments”		
2	Duration of Activity	From 09 January 2023 to 18 Feb 2023		
3	Venue	B.Sc. III Classroom		
4	Participation			
	Students			
	B. Sc. II	04	26	30
	B. Sc. III	04	01	05
	Total	08	27	35
5	Result	Pass	Fail	Total
	B. Sc. II	30	00	30
	B. Sc. III	05	00	05
	Total	35	00	35

  
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- iii) Reverse
- iv) Both Forward & Reverse

10) The ..... Diode converts AC to DC electrical signals.

- i) Photo diode
- ii) zener diode
- iii) rectifier diode
- iv) light emmiting diode

11) What are the two main types of transistors?

- i) emitter and collector
- ii) P type and N type
- iii) PNP and N channel
- iv) NPN and P channel

12) CRO is basically called as ....

- i) X- plotter
- ii) X-Y plotter
- iii) Y-plotter
- iv) none of the above

13) CRO stands for .....

- i) Cathod Ray Oscillator
- ii) Cathod Ray Oscilloscope
- iii) Cathod Ray Optical
- iv) Current Ray Oscilloscope

14) In NPN transistor majority charge carriers in the base region are ....

- i) electrons
- ii) holes
- iii) protons
- iv) neutrons

15) The full form of BJT is.....

i) Bias Junction Transistor                      ii) Bipolar Junction Transmitter

iii) Bipolar Junction Transistor                  iv) Bipolar Junction Transfer

16) Main terminals of transistors are.....

i) Emitter    ii) Base

iii) Collector                                         iv) All the above

17) The middle layer of the transistor is known as .....

i) Emitter     ii) Base

iii) Collector                                        iv) All the above

18) CRT stands for .....

i) Cathode Ray Tube                                      ii) Cathode Ray Transistor.

iii) Cathode Ray Transformer                      iv) Cathode Ray Transmitter

19) What is the purpose of "MATH" function on some oscilloscope?

i) To adjust trigger level                              ii) To calibrate oscilloscope

iii) Change display colours                         iv) To perform Mathematical Operations on Waveforms

20) The First Diode was invented in the year .....

i) 1904              ii) 1890               iii) 1900              iv) 1860

21) ..... Diodes are the most common types of Diode.

i) Germanium    ii) LED                      iii) Zener                       iv) Silicon .

22) The First Oscilloscope was invented in the year .....

i) 1897              ii) 1890                      iii) 1900                       iv) 1860

23) Transistor was invented by....

i) John Flemming                                      ii) Thomas Edison

iii) Bardeen, Shockley and Brattain                  iv) Kepler

24) Which colour of LASER light has shortest wavelength?

i) Red

ii) Green

iii) Blue

iv) Violet

25 The First Transistor was invented in the year .....

i) 1904

ii) 1890

iii) 1900

iv) 1947