

Shikshan Prasarak Sanstha's
Padmabhushan Vasantodada Patil Mahavidyalaya, KavatheMahankal.

DEPARTMENT OF PHYSICS

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

Title	Career Oriented Course in "Introduction of Electrical Instruments."
Duration	From 09 January 2023 to 18 Feb 2023.
Organizer	Department of Physics.
BOS members	Mrs. P.U. Mahamuni Asso. Prof. S.B. Patil Dr. S.S. Shendage Mr. Sagar S. Shinde
Co-Ordinator	Mr. Sagar S. Shinde
Objective	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.
Outcomes and Coclusion	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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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


Mr. Sagar S. Shinde
Co-ordinator


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

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 Vasantodada 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 Vasantodada Patil
Mahavidyalaya, Kavathe Mahankal, Dist. Sangli

Yours faithfully,

H. H. H.
Head

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

Brochure

Department of Physics

**COC in Physics
2022-23**



**Introduction Of Electrical
Instruments**

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

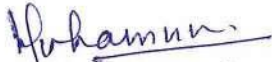
Transistors: (10 hours)

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 Vasantrodada 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	Pd	Pd	Pd	Pd	Pd	Pd	Pd	Pd	Pd	Pd	Pd
16.	Dalavi Aishwarya gajanan	Aishwarya	Aishwarya	Aishwarya	Aishwarya	Aishwarya	Aishwarya	Aishwarya	Aishwarya	Aishwarya	Aishwarya	Aishwarya
17.	Mane Rutuja Anil	R.A.M	R.A.M	P.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	Pratik	Pratik	Pratik	Pratik	Pratik	Pratik	Pratik	Pratik	Pratik	Pratik	Pratik
20.	Latthe Rohini Mukesh	R.Latthe	R.Latthe	R.Latthe	R.Latthe	R.Latthe	R.Latthe	R.Latthe	R.Latthe	R.Latthe	R.Latthe	R.Latthe
21.	Phakade Pravina Baban	Prakade	Prakade	Prakade	Prakade	Prakade	Prakade	Prakade	Prakade	Prakade	Prakade	Prakade
22.	Phadatare Shobha Pandit	AB	standit	standit	standit	standit	AB	standit	standit	AB	standit	standit
23.	Chavan Bharati Shashikant	BSC	BSC	BSC	BSC	BSC	BSC	BSC	AB	BSC	BSC	BSC
24.	Kute Pranav Kundalik	PK	PK	PK	AB	PK	PK	PK	PK	PK	PK	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	AB	V.A.B.	V.A.B.
26.	Kadam Aniket Mahadev	A.M.Kadam	A.M.Kadam	AMKadam	AMKadam	AMKadam	AB	AMKadam	AMKadam	AMKadam	AMKadam	AMKadam
27.	Bhosale Sushmita Abaso	Bhosale	Bhosale	Bhosale	Bhosale	Bhosale	Bhosale	Bhosale	Bhosale	Bhosale	Bhosale	Bhosale
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	Bhosale	Bhosale	Bhosale	Bhosale	Bhosale	Bhosale	Bhosale	Bhosale	Bhosale	Bhosale	Bhosale
30.	Chavan Swati Deepak	SDC	AB	SDC	SDC	SDC	SDC	SDC	SDC	AB	SDC	SDC
31.	Hiremath Shraddha Santosh	Shiremath	Shiremath	Shiremath	Shiremath	Shiremath	Shiremath	Shiremath	Shiremath	Shiremath	Shiremath	Shiremath
32.	Patil Akshata Balaso	Apatil	Apatil	Apatil	Apatil	Apatil	Apatil	Apatil	Apatil	Apatil	Apatil	Apatil
33.	Kedar Pratiksha Subhash	P.S.Kedar	P.S.Kedar	P.S.Kedar	P.S.Kedar	P.S.Kedar	P.S.Kedar	P.S.Kedar	P.S.Kedar	P.S.Kedar	P.S.Kedar	P.S.Kedar
34.	Patil Aditi Bajarang	APatil	APatil	APatil	APatil	APatil	APatil	APatil	APatil	APatil	APatil	APatil
35.	Patil Pranali Rajendra	Ppatil	Ppatil	Ppatil	Ppatil	Ppatil	Ppatil	Ppatil	Ppatil	Ppatil	Ppatil	Ppatil

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1.	Patil Aditya Sahebrao	<i>Aspatil</i>	<i>Aspatil</i>	<i>Aspatil</i>	<i>AS</i>	<i>Aspatil</i>	<i>Aspatil</i>	<i>Aspatil</i>	<i>Aspatil</i>	<i>Aspatil</i>	<i>Aspatil</i>
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3.	Mali Saurabh Manohar	<i>MS</i>	<i>MS</i>	<i>MS</i>	<i>MS</i>	<i>MS</i>	<i>AB</i>	<i>MS</i>	<i>MS</i>	<i>MS</i>	<i>AB</i>
4.	Patil Jayashree Audumber	<i>AB</i>	<i>PJA</i>	<i>PJA</i>	<i>PJA</i>	<i>PJA</i>	<i>AB</i>	<i>PJA</i>	<i>PJA</i>	<i>PJA</i>	<i>AB</i>
5.	Pawar Amarjit Uttam	<i>PAU</i>	<i>PAU</i>	<i>AB</i>	<i>PAU</i>	<i>PAU</i>	<i>PAU</i>	<i>PAU</i>	<i>PAU</i>	<i>PAU</i>	<i>PAU</i>
6.	Patil Arati Vijay	<i>AB</i>	<i>AVP</i>	<i>AVP</i>	<i>AVP</i>	<i>AVP</i>	<i>AVP</i>	<i>AB</i>	<i>AVP</i>	<i>AVP</i>	<i>AVP</i>
7.	Jadhav Arati Tanaji	<i>Adhav</i>	<i>Adhav</i>	<i>Adhav</i>	<i>Adhav</i>	<i>Adhav</i>	<i>Adhav</i>	<i>Adhav</i>	<i>Adhav</i>	<i>Adhav</i>	<i>Adhav</i>
8.	Shinde Ashwini Pandurang	<i>A.P.Shinde</i>	<i>A.P.Shinde</i>	<i>A.P.Shinde</i>	<i>A.P.Shinde</i>	<i>A.P.Shinde</i>	<i>A.P.Shinde</i>	<i>A.P.Shinde</i>	<i>A.P.Shinde</i>	<i>A.P.Shinde</i>	<i>A.P.Shinde</i>
9.	Shinde Shraddha Vitthal	<i>Shreddha</i>	<i>Shreddha</i>	<i>Shreddha</i>	<i>Shreddha</i>	<i>Shreddha</i>	<i>Shreddha</i>	<i>Shreddha</i>	<i>Shreddha</i>	<i>Shreddha</i>	<i>Shreddha</i>
10.	Mali Priyanka Balu	<i>Pmali</i>	<i>Pmali</i>	<i>Pmali</i>	<i>Pmali</i>	<i>Pmali</i>	<i>Pmali</i>	<i>Pmali</i>	<i>Pmali</i>	<i>Pmali</i>	<i>Pmali</i>
11.	Patil Pranavika Shahaji	<i>Patil</i>	<i>Patil</i>	<i>Patil</i>	<i>Patil</i>	<i>Patil</i>	<i>Patil</i>	<i>Patil</i>	<i>Patil</i>	<i>Patil</i>	<i>Patil</i>
12.	Patil Anjali Dattatraya	<i>Patil</i>	<i>Patil</i>	<i>Patil</i>	<i>Patil</i>	<i>Patil</i>	<i>Patil</i>	<i>Patil</i>	<i>Patil</i>	<i>Patil</i>	<i>Patil</i>
13.	Kambale Rohan Rajesh	<i>Kambale</i>	<i>Kambale</i>	<i>Kambale</i>	<i>Kambale</i>	<i>Kambale</i>	<i>Kambale</i>	<i>Kambale</i>	<i>Kambale</i>	<i>Kambale</i>	<i>Kambale</i>

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
15.	Jadhav Purnima Sanjay	Pjadh	Pjadh	Pjadh	Pjadh	Pjadh	Pjadh	Pjadh	Pjadh	Pjadh	Pjadh
16.	Dalavi Aishwarya gajanan	Aishwarya	Aishwarya	Aishwarya	Aishwarya	Aishwarya	Aishwarya	Aishwarya	Aishwarya	Aishwarya	Aishwarya
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
18.	Shirkr Ashwini Shivaji	ASS	ASS	AB	ASS	ASS	ASS	ASS	ASS	ASS	ASS
19.	Phakade Pratibha Mohan	Prakade	Prakade	Prakade	Prakade	Prakade	Prakade	Prakade	Prakade	Prakade	Prakade
20.	Latthe Rohini Mukesh	Rolathe	Rolathe	Rolathe	Rolathe	Rolathe	Rolathe	Rolathe	Rolathe	Rolathe	Rolathe
21.	Phakade Pravina Baban	Prakade	Prakade	Prakade	Prakade	Prakade	Prakade	Prakade	Prakade	Prakade	Prakade
22.	Phadatare Shobha Pandit	spandit	spandit	spandit	spandit	spandit	AB	spandit	spandit	spandit	spandit
23.	Chavan Bharati Shashikant	AB	BSE	BSE	BSE	BSE	BSE	BSE	BSE	BSE	BSE
24.	Kute'Pranav Kundalik	PK	R	AB	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
26.	Kadam Aniket Mahadev	AB	AMKadam	AMKadam	AMKadam	AMKadam	AMKadam	AMKadam	AMKadam	AMKadam	AMKadam
27.	Bhosale Sushmita Abaso	Bhosale	Bhosale	Bhosale	Bhosale	Bhosale	Bhosale	Bhosale	Bhosale	Bhosale	Bhosale
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
29.	Bhosale Sanika Sanjay	Bhosale	Bhosale	Bhosale	Bhosale	Bhosale	Bhosale	Bhosale	Bhosale	Bhosale	Bhosale
30.	Chavan Swati Deepak	SD	SD	AB	SD	SD	SD	AB	SD	SD	SD
31.	Hiremath Shraddha Santosh	Shiremath	AB	Shiremath	Shiremath	Shiremath	Shiremath	Shiremath	Shiremath	Shiremath	AB
32.	Patil Akshata Balaso	Apatil	Apatil	Apatil	Apatil	Apatil	Apatil	Apatil	Apatil	Apatil	Apatil
33.	Kedar Pratiksha Subhash	P.S.Keedar	P.S.Keedar	P.S.Keedar	P.S.Keedar	P.S.Keedar	P.S.Keedar	P.S.Keedar	P.S.Keedar	P.S.Keedar	P.S.Keedar
34.	Patil Aditi Bajarang	ADPatil	ADPatil	ADPatil	ADPatil	ADPatil	ADPatil	ADPatil	ADPatil	ADPatil	ADPatil
35.	Patil Pranali Rajendra	Ppatil	Ppatil	Ppatil	Ppatil	Ppatil	Ppatil	Ppatil	Ppatil	Ppatil	Ppatil

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>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>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	P.P.	P.P.	P.P.	P.P.	P.P.	P.P.	P.P.	P.P.	P.P.	P.P.	P.P.
16.	Dalavi Aishwarya gajanan	A.A.	A.A.	A.A.	A.A.	A.A.	A.A.	A.A.	A.A.	A.A.	A.A.	A.A.
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	P.P.	P.P.	P.P.	P.P.	P.P.	P.P.	P.P.	P.P.	P.P.	P.P.	P.P.
20.	Latthe Rohini Mukesh	R.L.	R.L.	R.L.	R.L.	R.L.	R.L.	R.L.	R.L.	R.L.	R.L.	R.L.
21.	Phakade Pravina Baban	P.P.	P.P.	P.P.	P.P.	P.P.	P.P.	P.P.	P.P.	P.P.	P.P.	P.P.
22.	Phadatare Shobha Pandit	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	AB	S.P.	S.P.
23.	Chavan Bharati Shashikant	B.C.	B.C.	AB	B.C.	B.C.	B.C.	B.C.	B.C.	B.C.	B.C.	B.C.
24.	Kute Pranav Kundalik	P.K	P.K	P.K	P.K	P.K	P.K	P.K	P.K	P.K	AB	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	A.M.	A.M.	A.M.	A.M.	A.M.	A.M.	A.M.	A.M.	A.M.	A.M.
27.	Bhosale Sushmita Abaso	S.B.	S.B.	S.B.	S.B.	S.B.	S.B.	S.B.	S.B.	S.B.	S.B.	S.B.
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	S.B.	S.B.	S.B.	S.B.	S.B.	S.B.	S.B.	S.B.	S.B.	S.B.	S.B.
30.	Chavan Swati Deepak	S.D.C.	S.D.C.	S.D.C.	AB	S.D.C.	S.D.C.	S.D.C.	S.D.C.	S.D.C.	AB	S.D.C.
31.	Hiremath Shraddha Santosh	S.H.	S.H.	S.H.	S.H.	S.H.	S.H.	S.H.	S.H.	S.H.	S.H.	S.H.
32.	Patil Akshata Balaso	A.P.	A.P.	A.P.	A.P.	A.P.	A.P.	A.P.	A.P.	A.P.	A.P.	A.P.
33.	Kedar Pratiksha Subhash	P.S.K.	P.S.K.	P.S.K.	P.S.K.	P.S.K.	P.S.K.	P.S.K.	P.S.K.	P.S.K.	P.S.K.	P.S.K.
34.	Patil Aditi Bajarang	A.P.	A.P.	A.P.	A.P.	A.P.	A.P.	A.P.	A.P.	A.P.	A.P.	A.P.
35.	Patil Pranali Rajendra	P.P.	P.P.	P.P.	P.P.	P.P.	P.P.	P.P.	P.P.	P.P.	P.P.	P.P.



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DEPARTMENT OF PHYSICS

C E R T I F I C A T E

This is to certify that Mr./Miss/Mrs. **Patil Aaditya Sahebrao** of Class **BSc. III** 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
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Mrs. P. U Mahamuni

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