Shri Vijaysinha Yadav College, Peth Vadgaon

Department of Chemistry

Report of Skill Development Course in Physicochemical Analysis of Water (2023-24)

| Sr. | Title | Content |
|-----|---------------------------------|--|
| No. | | |
| 01. | Name of Add on/ certificate | Physicochemical Analysis of Water |
| | course | |
| 02. | Course Code | NA |
| 03. | Year of Offering | 2023-24 |
| 04. | No. of times offered during the | Once in a year |
| | same year | |
| 05. | Duration of Course | 1 st January to 30 th January 2024 |
| 06. | No. of. Student enrolled | 29 |
| 07. | Student completing the course | 29 |

Activity Corodinatos Head Separtment of Chemistry Strict Victoria Yaday College Publishment Dist Kolhapur.

pt Principal Shri. Vijaysinha Yadav College Peth Vadgaon, Dist. Kolhapur.

Shri Vijaysinha Yadav College, Peth Vadgaon

Department of Chemistry

Report of Skill Development Course in Physicochemical Analysis of Water (2023-24)

Department of Chemistry of Shri Vijaysinha Yadav College, Peth Vadgaon is organized Skill Development Course on **Physicochemical Analysis of Water**. Following are the details of course.

Name of Course : Physicochemical Analysis of Water

Organizer : Department of Chemistry

Duration : 1st January to 30th January 2024

Contact Hours : 30hrs

Medium : English.

Eligibility : XII Science.

Strength : 29

Platform : Offline

Name of Skill Provider :

| Sr. No. | Name of Trainer | Educational Qualification |
|---------|-------------------|----------------------------------|
| 1 | Dr. R.A. Pawar | M. Sc., B.Ed., SET, Ph.D. |
| 2 | Dr. C. B. Mane | M. Sc., B.Ed., M. Phil. Ph.D. |
| 3 | Dr. R. A. Chavan | M. Sc. Ph.D. |
| 4 | Mr. S. I. Mujawar | M. Sc., B.Ed., SET |
| 5 | Dr. A. N. Kokare | M. Sc. Ph.D. |

Short Description of course conducted:

Department of Chemistry of Shri Vijaysinha Yadav College, Peth Vadgaon is organized Skill Development Course on **Physicochemical Analysis of Water** on 1st

January to 30th January 2024. The course was introduced by Dr. C. B. Mane, Course Coordinator, Department of Chemistry, Shri Vijaysinha Yadav College, Peth Vadgaon on 1st January 2024. He strongly pointed on water quality and need of analysis of water. The Presidential address was given by Dr. R. A. Pawar, Head, Department of Chemistry of Shri Vijaysinha Yadav College, Peth Vadgaon. On the Same day Session were conducted by Dr. R. A. Pawar on the topic Lab Management and Dr. C. B. Mane on the topic Unit Operation. From 2nd January 2024 session were conducted as per schedule.

Outcomes of the course:

- 1. Student developed skill of managing the laboratory with ethics and lab safety.
- 2. Students understand skill regarding determination of physical parameters of water.
- 3. Students understand skill regarding determination of chemical parameters of water.
- 4. Students acquired applicative knowledge of water in day today life.

Activity Coordinatos Separtment of Chemistry Separtment of Chemistry Separtment of Chemistry

Peth Vadgaon, Dist. Kolhapur.



Shri Shahu Shikshan Prasarak Seva Mandal's

SHRI VIJAYSINHA YADAV COLLEGE,



PETH VADGAON,

DIST: KOLHAPUR

DEPARTMENT OF CHEMISTRY

Skill Development Course On Physicochemical Analysis of Water

Course Coordinator
Dr. Chandrakant Balu Mane
Associate Professor
Department of Chemistry

Skill Development Course in Physicochemical Analysis of Water

Department of Chemistry of Shri Vijaysinha Yadav College, Peth Vadgaon is going to organize Skill Development Course on **Physicochemical Analysis of Water**. Following are the details.

1. Details' of Course:

Name of Course : Physicochemical Analysis of Water.

Organizer : Department of Chemistry.

Duration : 1st January to 30th January 2024

Contact Hours : 30hrs

Medium : English.

Eligibility : XII Science.

Strength : 29

Faculty : Separate sheet attached.

2. Curriculum:

| Sr. | Theory | Practical |
|-----|----------------------------------|---------------------------------------|
| No. | | |
| 01 | Lab Management | Calibration &Standardization |
| 02 | Lab Safety Rules and Regulations | Determination of Physical Parameters |
| 03 | Lab First Aid | Determination of Chemical Parameters. |
| 04 | Unit Operation | Tests for Water Analysis. |
| 05 | Water Chemistry | |
| 06 | Physical Parameters of Water. | |
| 07 | Chemical Parameters of Water | |
| 08 | Dissolved Oxygen | |

| 09 | Chemical Oxygen Demand | |
|----|--------------------------|--|
| 10 | Biological Oxygen Demand | |

3. Program Fee: Rs. 100/- per student.

4. General information of the Course

1) Aims:

- i. To impart the knowledge of Water chemistry to the pupils.
- ii. To make the student expert in Analysis of Water.

2) Objectives -

- i. Students will able to lab management
- ii. Students will able to determine physical parameters of water
- iii. Students will able to determine chemical parameters of water
- iv. Applications of the knowledge to analyze water in day today life.
- v. To develop skills for Analysis of Water.

3. Structure of Course

- i. Theory 10 hours (Two lectures per day)
- ii. Practical 20 hours

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Principal
Shri. Vijaysinha Yadav College
Peth Vadgaon, Dist. Kolhapur.

Skill Development Course in Physicochemical Analysis of Water 2023-24

Design of Curriculum

Meeting to design curriculum of Skill Development Course on **Physicochemical Analysis of Water** was held on Monday, 13/12/2023 at 11.00 am. Following Faculty were present for meeting.

| Name | Role |
|-------------------|-------------|
| Dr. C. B. Mane | Coordinator |
| Dr. R.A. Pawar | Member |
| Dr. R. A. Chavan | Member |
| Mr. S. I. Mujawar | Member |
| Dr. A. N. Kokare | Member |

As per discussed, following structure was designed.

| Sr. No. | Theory | Practical |
|---------|----------------------------------|---------------------------------------|
| 01 | Lab Management | Calibration &Standardization |
| 02 | Lab Safety Rules and Regulations | Determination of Physical Parameters |
| 03 | Lab First Aid | Determination of Chemical Parameters. |
| 04 | Unit Operation | Tests for Water Analysis. |
| 05 | Water Chemistry | |
| 06 | Physical Parameters of Water. | |
| 07 | Chemical Parameters of Water | |
| 08 | Dissolved Oxygen | |
| 09 | Chemical Oxygen Demand | |
| 10 | Biological Oxygen Demand | |

Activity Coordinators

Head

Separtment of Chemistry

Separtment of C

Principal
Shri. Vijaysinha Yadav College
Peth Vadgaon, Dist. Kolhapur.

Skill Development Course in Physicochemical Analysis of Water

List of Trainers

| Sr. | Name of Trainer | Educational | Designation |
|-----|-------------------|--------------------|---|
| No. | | Qualification | |
| 1 | Dr. R.A. Pawar | M. Sc., SET, Ph.D. | Head, Dept of Chemistry, Shri V. Y. College |
| | | | Peth Vadgaon |
| 2 | Dr. C. B. Mane | M. Sc., M. Phil. | Asso. Professor, Shri V. Y. College Peth |
| | | Ph.D. | Vadgaon |
| 3 | Dr. R. A. Chavan | M. Sc. Ph.D. | Asst. Professor, Shri V. Y. College Peth |
| | | | Vadgaon |
| 4 | Mr. S. I. Mujawar | M. Sc., SET | Asst. Professor, Shri V. Y. College Peth |
| | | | Vadgaon |
| 5 | Dr. A. N. Kokare | M. Sc. Ph.D. | Asst. Professor, Shri V. Y. College Peth |
| | | | Vadgaon |

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Shri. Vijaysinha Yaday College Peth Vadgaon, Dist. Kolhapur.

Skill Development Course in Physicochemical Analysis of Water

Schedule

| Sr. No. | Day &Date | Time | Faculty | Title |
|---------|------------------------|----------------|--------------------|----------------------------------|
| 1 | Monday | 11.30 to 12.30 | Dr. R. A. Pawar | Lab Management |
| | 01/01/2024 | | | |
| | | 12.30 to 01.30 | Dr. C. B. Mane | Unit Operations |
| _ | | | | |
| 2 | Tuesday | 11.30 to 12.30 | Dr. R. A. Chavan | Lab Safety Rules and Regulations |
| | 02/01/2024 | 12.30 to 01.30 | Mr. S. I. Mujawar | Lab Communications |
| 3 | Wednesday | 11.30 to 12.30 | Dr. A. N. Kokare | Lab First Aid |
| | 03/01/2024 | 12.30 to 01.30 | Dr. R. A. Pawar | Water Chemistry |
| | | | | |
| 4 | Thursday | 11.30 to 12.30 | Dr. C. B. Mane | Physical Parameters of Water. |
| | 04/01/2024 | 12.20 | | |
| | | 12.30 to 01.30 | Dr. R. A. Chavan | Dissolved Oxygen, Biological |
| | | 11.20 . 12.20 |), G T), i | Oxygen Demand |
| 5 | Friday | 11.30 to 12.30 | Mr. S. I. Mujawar | Chemical Parameters of Water. |
| | 05/01/2024 | 12.30 to 01.30 | Dr. A. N. Kokare | Chemical Oxygen Demand |
| 6 | Saturday | 10.30 to 02.30 | Dr. R. A. Pawar | Calibration of Instruments. |
| | 06/01/2024 | 10.20 02.20 | D 0 D 16 | |
| 7 | Friday | 10.30 to 02.30 | Dr. C. B. Mane | Determination of Physical |
| | 19/01/2024 | | | Parameters of Water. |
| 8 | C - 4 1 | 10 20 4- 02 20 | M. C. I. Marianan | Determination of Chemical |
| 8 | Saturday 20/01/2024 | 10.30 to 02.30 | Mr. S. I. Mujawar | Parameters of Water. |
| 9 | | 10.30 to 02.30 | Dr. R. A. Chavan | |
| 9 | Wednesday 24/01/2024 | 10.30 to 02.30 | Dr. K. A. Chavan | Some Delicate Tests for Water |
| 10 | | 12.30 to 02.30 | Dr. A. N. Kokare | Analysis. Theory Examination |
| 10 | Saturday 27/01/2024 | 12.30 10 02.30 | DI. A. N. NOKare | Theory Examination |
| 11 | | 10.30 to 02.30 | Mr. C. I. Mujovyor | Practical Examination |
| 11 | Tuesday 30/01/2024 | 10.30 to 02.30 | Mr. S. I. Mujawar | Fractical Examination |
| | 30/01/2024 | | | |

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Shri. Vijaysinha Yadav College Peth Vadgaon, Dist. Kolhapur.

Notice

All the students of B.Sc. Part II & III are hereby informed that, Department of chemistry will organize Skill Development course on Physicochemical Analysis of Water from 1st January to 30th January 2024 (30 contact hours). The course is divided in to two parts: Theory and Practicals.

Participation Fee: Rs. 100. After completion of course you will get course completion certificate which is very important for your future growth.

Activity Corodinatos Ser visusmina Yaday College

Reth Vadgaon, Dist. Kolhapur.

Nature of Question Paper

Shri Vijaysinha Yadav College, Peth Vadgaon

Department of Chemistry

Skill Development Course in Physicochemical Analysis of Water

| Day: - Time: - 1 Hours. | Date: - Total Marks: - 50 | |
|----------------------------|---|--|
| 25 Multiple choice questio | For the following and write the answer | |
| | Practical Examination | |
| Day: - | Date: - | |
| Time: - 5 Hours. | Total Marks: - 50 | |
| Q.1. Qualitative Analysis | | 25 |
| Q.2. Quantitative Analysis | | 25 |
| | | |
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Shri. Vijaysinha Yadav College Peth Vadgaon, Dist. Kolhapur.

Shri Vijaysinha Yadav College, PethVadgaon Department of Chemistry Development Communication

Skill Development Course in Physicochemical Analysis of Water

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List of Participants

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| 14 | Prajyot K. Dhangwade | 100/ | 9890845397 | |
| 15 | Pratik Pratup Khot | 100/ | 8552 82 9 99 | |
| 16 | Pronali Tanaji Vakee | 100/ | 7219313081 | Phakee |
| 17 | Snehal Sanjay Patil | 100/ | 9322821246 | Field. |
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Shri Vijaysinha Yaday College, Peth Vadgaon

Department of Chemistry

Skill Development Course in Physicochemical Analysis of Water







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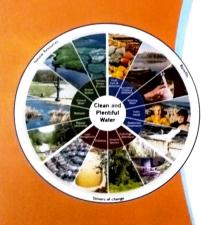
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Department of Chemistry
organized
Skill Development Course
on
'Physicochemical
Analysis of Water'

On 1st January to 30th January, 2024



Shri Shahu Shikshan Prasarak Seva Mandal's

Shri Vijaysinha Yadav College

Peth Vadgaon, Dist. Kolhapur

Re-Accredited with Grade: A+ (CGPA: 3.41) by NAAC, Banglore (Affiliated to Shivaji University, Kolhapur)

CERTIFICATE

This is to certify that, Mr./Miss Shinde Reshma Baban.

of Shri. Vijaysinha Yadav College, Peth Vadgaon has successfully completed Skill Development Course on "Physicochemical Analysis of Water" organized by Department of Chemistry, Shri. Vijaysinha Yadav College, Peth Vadgaon from 1st January to 30th January 2024.

We appreciate and congratulate the participant for enthusiastic performance.

Dr. Chandrakant B. Mane
Course Coordinator
Department of Chemistry

Dr. Renuka A. Pawar Head Department of Chemistry Dr. Ashok S. Chavan I/C Principal Shri Vijaysinha Yadav College