



VIDYA VIKAS SHIKSHAN SANSTHA, HINGANGHAT
VIDYA VIKAS ART'S, COMMERCE & SCIENCE COLLEGE,
SAMUDRAPUR DIST. WARDHA 442305 (M.S.)

(Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur.)

Dr. K. G. Rewatkar, Principal
(NAAC Accredited B++)

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Ph. & Fax No. 07151 225560, 9860179400, 9421539529

(Estd. 1989)

No. VVCS/ /

Date: 08/07/2024

Notice

To
All Heads of Departments

Subject: Technical Workshop on Instrument Handling and NEP-2020 for Non-Teaching Staff

Dear Sir/Madam,

This is to inform you that a technical workshop on "**Instrument Handling, Repairing and Maintenance**" has been scheduled for all departmental non-teaching staff members in your respective departments.

Details of the workshop are as follows:

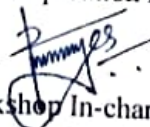
- Dates: 10th to 13th July 2024
- Time: 10:00 AM to 4:00 PM
- Venue: At Respective department


The workshop aims to provide essential training and practical knowledge on the proper handling and maintenance of laboratory instruments, aligned with the latest guidelines under NEP-2020. It is imperative that all non-teaching staff members participate actively to enhance their skills and ensure operational efficiency within our departments. Please coordinate with your departmental staff to ensure their attendance and punctuality throughout the workshop sessions.

Note: Kindly submit the report on or before 17/07/2024

For any queries or further information, please contact Dr. R. G. Gajbhiye at Department of Chemistry

Thank you for your cooperation in advance.


Workshop In-charge,
Dr. R. G. Gajbhiye
Coordinator


Principal
Vidya Vikas Art's Commerce
& Science College, Samudrapur
Dist. Wardha 442305



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Program Report

- **Name of Program / Event :** Instrument Handling, Repairing and Maintenance
- **Name of the Organizing Department:** Department of Chemistry
- **Date, Venue, Time/ Duration:** 10th to 15th July 2024
- **Number of participated students/ faculty members/ research scholar:** 10

Chemistry Laboratory

Title: Instrument Handling, Repairing and Maintenance of Laboratory Instruments in the Chemistry Lab

Introduction of the event:

The First day of the college report focuses on providing Instrument Handling, Repairing and Maintenance training for laboratory instruments in the Chemistry laboratory. The workshop aimed to enhance the skills of lab attendees in the proper care and maintenance of various lab instruments. The training was crucial to ensure the accuracy and reliability of experimental data, as well as to extend the lifespan of the lab equipment.

Workshop Content and Activities:

The workshop consisted of practical demonstrations, handling and maintenance activities. The content covered a wide range of lab instruments commonly used in chemical analysis, including spectrophotometers, balances, pH meters, centrifuges, Microwave oven, Suction Pump, Conductometer. The following activities were undertaken:

Practical Demonstrations:

Dr. M. N. Narule (HOD) and Ms. S. W. Awaghade conducted demonstrations of proper handling and maintenance techniques for various lab instruments. Attendees observed the step-by-step procedure for cleaning, disinfecting, and storing the instruments. Techniques for proper calibration, validation, and adjustment were also demonstrated. Dr. R. G. Gajbhiye delivered lectures on safety precautions skills while using chemicals in lab. Participants were given the opportunity to practice the maintenance procedures themselves. This hands-on approach allowed attendees to gain firsthand experience in maintaining and troubleshooting the instruments.

Objective of the event:

- Increase knowledge and understanding of lab instrument maintenance protocols
- Improve troubleshooting skills to address common issues with lab instruments
- Promote a culture of responsibility and care for lab equipment

Introduction: The fourth day of the college report focuses on providing hands-on experience and maintenance training for laboratory instruments in the Chemistry laboratory. This session aimed to familiarize the laboratory attendants with chemistry experiments and the proper handling and maintenance of laboratory equipment.

Instrument Handling Experience: During the session, laboratory attendants actively participated in chemistry experiments conducted in the lab and Instrument Maintenance. Parallel to the hands-on experience, laboratory attendants received training on the proper maintenance and care of laboratory instruments used in chemistry experiments. The following topics were covered:

1. Cleaning techniques for glassware and chemical spill cleanup.
2. Calibration and maintenance of pH meters and burettes.
3. Storage guidelines for chemicals and reagents.
4. Troubleshooting common issues with laboratory instruments.

Conclusion: The fourth day's training in the Chemistry laboratory provided the laboratory attendants with practical experience in chemistry experiments and knowledge on instrument maintenance. This hands-on experience and maintenance training will enable them to contribute effectively to the functioning of the lab.

Outcomes

- Understanding the importance of regular maintenance in ensuring accurate experimental results
- Proficiency in performing routine cleaning, disinfection, and storage of lab instruments
- Acquiring knowledge of calibration and validation methods for various lab instruments
- Developing troubleshooting skills to identify and address common instrument issues
- Promoting a sense of responsibility and care for lab equipment among participants

Physics Laboratory

Title: Instrument, Repairing and Maintenance of Laboratory Instruments in the Physics Lab

Introduction: The Second day of the college report focuses on providing handling experience and maintenance training for laboratory instruments in the Physics laboratory. This session aimed to familiarize the laboratory attendants with the physics experiments conducted in the lab and the proper handling and upkeep of laboratory equipment.

Instrument Maintenance: Alongside the hands-on experience, laboratory attendants received training on the proper maintenance and care of laboratory instruments. The following topics were covered:

1. Cleaning and sanitization procedures for different instruments.
2. Calibration techniques to ensure accurate readings.
3. Storage guidelines for different equipment.
4. Regular inspection and troubleshooting of instruments.

Conclusion: The Second day training in the Physics laboratory provided the laboratory attendants equipped them with knowledge on instrument maintenance. This handling, Repairing experience and maintenance training will enable them to support the smooth functioning of the lab in the future.

Zoology Laboratory

Title: Instrument, Repairing and Maintenance of Laboratory Instruments in the Zoology Lab

Introduction: The Third day of the college report focuses on providing handling and repairing experience and maintenance training for laboratory instruments in the Zoology laboratory. The Head of Department Dr. M. S. Ambatkar and Dr. A. M. Bhende give the training to handle the instrument to nonteaching staff. The session aimed to familiarize the laboratory attendants with zoology experiments and the proper handling and maintenance of laboratory equipment.

Instrument Maintenance: Laboratory attendants received training on the proper maintenance and care of laboratory instruments used in zoology experiments. The following topics were covered:

1. Cleaning procedures specific to zoological instruments.
2. Storage guidelines for microscopes and delicate equipment.
3. Handling and disposal of biological specimens.
4. Troubleshooting common issues with laboratory instruments.

Conclusion: The third Day training in the Zoology laboratory provided the laboratory attendants with practical experience in zoology experiments and knowledge on instrument

maintenance. This hands-on experience and maintenance training will enable them to contribute effectively to the functioning of the lab.

Botany Laboratory

Title: Instrument, Repairing and Maintenance of Laboratory Instruments in the Botany Lab

Introduction: The Fourth day of the college report focuses on providing handling, repairing experience and maintenance training for laboratory instruments in the Botany laboratory. The efficiency and accuracy of laboratory work heavily depend on the proficiency of lab attendants in handling various instruments. This session aimed to familiarize the laboratory attendants with the proper handling and maintenance of laboratory equipment.

Hands on experience laboratory attendants received training on the proper maintenance and care of laboratory instruments used in botany experiments. The following topics were covered:

1. Cleaning and maintenance procedures specific to botany instruments.
2. Storage guidelines for preserving botanical specimens.
3. Proper handling of delicate equipment.
4. Calibration and troubleshooting techniques for laboratory instruments.

Conclusion: The fourth day training in the Botany laboratory provided the laboratory attendants with practical experience in botany experiments and knowledge on instrument maintenance. This hands-on experience and maintenance training will enable them to contribute effectively to the functioning of the lab.

Objective to Conduct Workshop for Laboratory Attendant:-

To equip laboratory attendants with the skills and knowledge necessary for the effective repair and maintenance of laboratory instruments, thereby enhancing their ability to ensure the optimal performance and longevity of laboratory equipment.

• Knowledge Enhancement:

Understand Instrumentation: Provide a comprehensive overview of the various types of laboratory instruments used in the facility, including their functions, components, and common issues.

Maintenance Principles: Educate attendees on general maintenance principles, including preventive, corrective, and predictive maintenance techniques.

• Practical Skills Development:

Troubleshooting Techniques: Train participants in diagnosing common problems and malfunctions in laboratory instruments. This includes identifying symptoms, troubleshooting procedures, and using diagnostic tools.

Repair Procedures: Demonstrate and practice the step-by-step procedures for repairing different types of laboratory instruments. Emphasize safety protocols and proper handling of components.

- **Preventive Maintenance:**

Routine Checks: Establish a routine maintenance schedule and procedures for regular checks, cleaning, and minor repairs.

Documentation: Introduce methods for keeping maintenance logs and documentation to track repairs, service history, and preventive measures.

- **Safety and Best Practices:**

Safety Protocols: Reinforce safety guidelines for handling electrical components, chemicals, and other potentially hazardous materials during maintenance and repair.

Best Practices: Share best practices for maintaining a clean and organized workspace to facilitate efficient repair and maintenance work.

- **Problem-Solving and Support:**

Support Resources: Provide information on where to find additional resources, technical support, and parts suppliers for ongoing assistance.

Collaboration: Encourage a collaborative approach to problem-solving by sharing experiences and solutions among attendees.

By focusing on these objectives, the workshop will provide laboratory attendants with the essential skills to maintain and repair laboratory instruments effectively, ensuring smooth and accurate laboratory operations.

Photographs:



Name and Sign of event in-charge

Dr. Rahul G. Gajbhiye
Co-ordinator of Workshop

Principal
Vidya Vikas Art's Commerce
& Science College, Samudrapur
Dist. Wardha 442305

Vidya Vikas Arts, Commerce & Science College, Samudrapur
Department of Chemistry

- **Name of Program:** Instrument handling, repairing and maintenance
- **Name of the Organizing Department:** Department of Chemistry.
- **Date, Venue, Time/ Duration:** 10/07/2024.
- **Number of participated students:** 08
- **Faculty members:** 03
- **Introduction of the event:** Dr. M. N. Narule give the information and handling and repairing about chemistry lab instrument to Lab assistant of all science faculty—Dr. M. N. Narule, Dr. R. G. Gajbhiye and Bobade madam was present at the time of training program.
- **Objective of the event:**
 1. Lab assistant are aware about handling and repairing about chemistry lab instrument
 2. Lab assistant knowledge of all lab instruments in chemistry lab.
 3. Lab assistant have skill to repairing instrument.

Photographs:

Technical Workshop on ~~Environmental Health~~ ~~Health~~ ~~Health~~ ~~Health~~

Department of ~~Health~~ ~~Health~~ ~~Health~~

Attendees List

No.	Name of Staff Member	Designation	Department
1	M. A. [unclear]	[unclear]	[unclear]
2	M. A. [unclear]	[unclear]	[unclear]
3	M. A. [unclear]	[unclear]	[unclear]
4	M. A. [unclear]	[unclear]	[unclear]
5	M. A. [unclear]	[unclear]	[unclear]
6	M. A. [unclear]	[unclear]	[unclear]
7	M. A. [unclear]	[unclear]	[unclear]
8	M. A. [unclear]	[unclear]	[unclear]
9	M. A. [unclear]	[unclear]	[unclear]
10	M. A. [unclear]	[unclear]	[unclear]

~~Signature~~ ~~Signature~~ ~~Signature~~ ~~Signature~~ ~~Signature~~

Signature
Head of Department

PH
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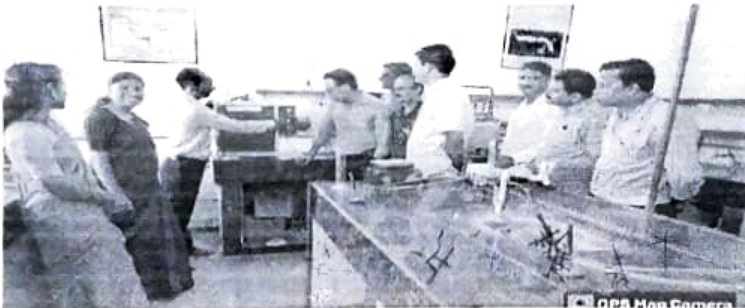
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 Lat 20.636184°
 Long 78.96294°
 10/07/24 12:21 PM GMT +05:30



Samudrapur, Maharashtra, India
 JXP7+989, Samudrapur, Maharashtra 442305, India
 Lat 20.636188°
 Long 78.96294°
 10/07/24 12:23 PM GMT +05:30

देशोन्नती

बधा | मंगळवार | दि. २३ जुल २०२४



डॉ. मेघशाम नरुळे यांचे प्रतिपादन
 विद्या विकास महाविद्यालयात कार्यशाळेचे आयोजन

प्रयोग शाळेतील उपकरण वापरणंही काळाची गरज

देशोन्नती वृत्तसंस्करण

समुद्रपूर : विज्ञानातील अनेक विषय मानवी जीवनाच्या दृष्टिकोनातून अतिशय महत्त्वपूर्ण आहेत. रसायनशास्त्र, भौतिकशास्त्र, प्राणीशास्त्र, जीवशास्त्र, वनस्पतीशास्त्र, शिकुन विद्यापीठ हे मोठमोठे वैज्ञानिक होऊ शकतात. महाविद्यालयातील अद्युक्त यानी प्रयोगशाळेतील उपकरण वापरणे ही काळाची गरज आहे. असे प्रतिपादन डॉ. मेघशाम नरुळे यांनी केले. स्थानिक विद्या विकास महाविद्यालयात रसायनशास्त्र विभागाच्या वतीने कार्यशाळेचे आयोजन करण्यात आले होते. त्यावेळेस ते बोलत होते. डॉ. मेघशाम नरुळे यांनी प्रयोग शाळेतील विविध उपकरणे कशा पद्धतीने हाताळावे याचे महत्त्व प्रयोगशाळेतील परिचर याना सांगितले. तसेच उपकरणे कसे हाताळावे आणि त्या उपकरणाचे फायदे

विद्यार्थ्यांना कशापद्धतीने समजून सांगायचे याबद्दल महत्त्व त्यांनी सांगितले. या प्रयोगशाळा उपकरणे कार्यशाळेमध्ये सांगितले. प्रयोगशाळेमध्ये विविध प्रकारची उपकरणे या एकाच नाण्याच्या दोन बाजू आहेत. कारण उपकरणांशिवाय विज्ञान संशोधन हे पुढे जाऊ शकत नाही. उपकरणांच्या माध्यमातूनच विविध शोध लावले जातात. म्हणून उपकरणांचे महत्त्व रसायनशास्त्र विभागाच्या वतीने डॉ. नरुळे यांनी महत्त्व सांगितले. या प्रयोगशाळा उपकरणे कार्यशाळेला रसायनशास्त्र विभागातील तसेच भौतिकशास्त्र, वनस्पतीशास्त्र, प्राणीशास्त्र, जीवशास्त्र या विभागातील परिचर यानी उत्सुक प्रतिवाद होता. सदर कार्यशाळा यंत्रांनी करण्याकरिता प्रा. शोशल अजयके, दिनेश निखाडे, जमील पाटील, मनीहर पटोके, महेंद्र दुखर, प्रकाश कांबळे, संजय बोडखे, उईके हत्यादीनी परिचय घेतले. तालुका प्रतिनिधी

विद्यार्थ्यांना कसे होतात उपकरणांचे फायदे

प्रयोगशाळेतील उपकरणे कसे हाताळावे आणि त्या उपकरणांचे फायदे विद्यार्थ्यांना कसे होतात, प्रयोगशाळेमध्ये विविध प्रकारची उपकरणे या एकाच नाण्याच्या दोन बाजू आहेत, कारण उपकरणांशिवाय विज्ञान संशोधन हे पुढे जाऊ शकत नाही. उपकरणांच्या माध्यमातूनच विविध शोध लावले जातात. म्हणून उपकरणांचे महत्त्व रसायनशास्त्र विभागाच्या वतीने आयोजित प्रयोग कार्यशाळेत उपस्थित असलेल्यांना डॉ. नरुळे यांनी सांगितले.





VIDYA VIKAS SHIKSHAN SANSTHA, HINGANGHUA

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(Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur.)

NAAC Reaccredited B++ (CGPA: 2.8)

Programme Report

- **Name of Program / Event:** One Day Workshop for Lab Attendants
- **Name of the Organizing Department:** Dept. of Zoology
- **Date, Venue, Time/ Duration:** 15 July 2024 at Vidya Vikas College, Samudrapur at 01:30 – 02:30 PM
- **Number of participated students/ faculty members/ research scholar/ Lab Attendants:** 08

Introduction of the event:

This workshop was conducted by Department of Zoology, Vidya Vikas College, Samudrapur. Dr. M.S.Ambatkar has inaugurated this workshop. For this workshop all the science faculty lab attendants were present. Dr. M.S.Ambatkar has address to the Lab Attendants about Importance of workshop and how this workshop is useful in handling the various instruments in the labs along with Mr. Vaibhav Kalambe and Dr. A.M.Bhende concluded this workshop by giving vote of thanks.

Objective of the event:

- Introduction of various lab instruments.
- To bring the awareness about instruments in all labs.
- Functions of the all instruments.
- Handling of the all instruments.

Photographs:





Outcome:

- 1) Every Lab Attendants understands handling of instruments of all the laboratories of the college.

Any Suggestion for future Improvement:

Name and Sign of event in charge

Dr.M.S.Ambatkar

Head,

Department of Zoology

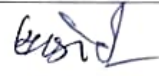
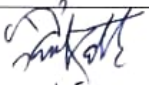



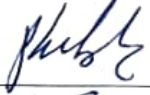
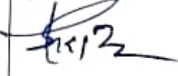
Date:- 15/07/2024

Place: Samudrapur

“Technical Workshop on Instrumental Handling / NEP-2020”

Department of Zoology.

Attendance List

Sr. No.	Name of Staff Member	Designation	Department	Signature
1)	M. J. Padole	L.A	CHE	
2)	Amol V. Patil	L.A	CHE	
3)	Sanjay. B. Bodkhe	L.A.	BOT	
4)	D.V. Nikhade	L.A	Phy	
5)	V.P. Uike	L.A	Phy	
6)	P.W. Kumbhar	L.A	Zoology	
7)	M.R. Jkhar	L.A	che.	



Signature

Dr. M. S. Amptkar
Head, Dept. of Zoology
Vidya Vikas Art's, Commerce
Science College, Samudraj
Dist. Wardha 442304



VIDYA VIKAS SHIKSHAN SANSTHA, HINGANGHAT

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Dr. K. G. Rewatkar
Principal

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(NAAC Accredited B++ 2022)

PROGRAMME REPORT

Name of Programme/ Event: Report on Hands-on training and Maintenance of Instruments for lab Attendants

Name of Organizing Department: Department of Botany, Vidya Vikas Arts, Commerce and Science College, Samudrapur.

Date, Venue, Time/ Duration: 15th July 2024, Department of Botany, Vidya Vikas Arts, Commerce and Science College, Samudrapur.

Number of Participated Students/ Faculty Members/ Research Scholars/ Lab Attendants: Lab attendant-9 and Faculty-05

Name of the speaker / guest: Dr. N.S. Shirbhate, Dr. V.G. Manwatkar and Dr. S. D. Yeotkar

Introduction of the Event:

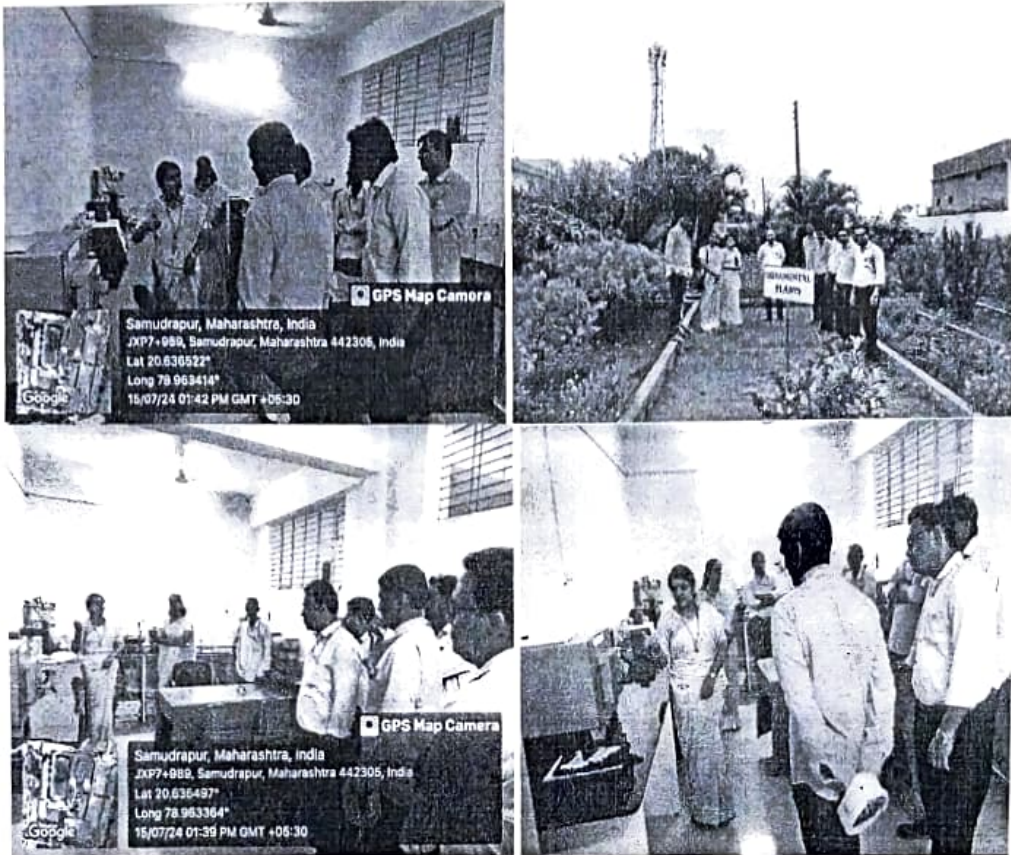
The efficiency and accuracy of laboratory work heavily depend on the proficiency of lab attendants in handling various instruments. Hands-on training is crucial to ensure that lab attendants are well-versed in the operation, maintenance, and troubleshooting of these instruments. Keeping in view that Department of Botany, Vidya Vikas Arts, Commerce and Science College, Samudrapur organized hand on training sessions for all non-teaching staff (Laboratory attendants) on 15th July, 2024. A total 9 laboratory attendants participated in the event. Hands-on training and guidance about the maintenance and minor repair of different equipment and instruments were given to the participants by Dr. N. S. Shirbhate, Head, Department of Botany, Vidya Vikas Arts, Commerce and Science College, Samudrapur.

Objectives of the Activity:

- ✓ To enhance the technical skills of lab attendants in operating laboratory instruments.
- ✓ To ensure proper maintenance and calibration of instruments.

- ✓ To improve the safety standards in the laboratory by teaching correct handling procedures.
- ✓ To develop troubleshooting skills to address common instrument issues.

Photos:



Outcomes of Activity:

- Enhanced technical skills among lab attendants.
- Improved maintenance and calibration of laboratory instruments.
- Higher safety standards in the laboratory.
- Increased confidence in troubleshooting and problem-solving.

Date: 20/07/2024

Place: Samudrapur

S.D. Yeotkar
V.G. Manwatkar
 Name and Sign of event In-charge
 Dr. S.D. Yeotkar/Dr. V.G. Manwatkar

R. Bhat
 Head of Institute
 Head Dept. of Botany
 Vikya Vikas Art & Commerce
 & Science College, Samudrapur
 Dist. Wardha 442305



[Signature]
 Vikya Vikas Art & Commerce
 & Science College, Samudrapur
 Dist. Wardha 442305

**VIDYA VIKAS ARTS, COMMERCE & SCIENCE
COLLEGE,**

SAMUDRAPUR, DIST-WARDHA 442305.

• PROGRAM NAME	: Hands on Training for Labi Attende
• PROGRAM DATE	: 15/07/2024
• ORGANIZED BY	: Dr. N.S. Shisbhate, Dr. V.G. Manwar
• DEPARTMENT	: Dr. S.D. Yeotkar Dept. of Botany

✓ LIST NAME OF PARTICIPANTS:

SR.NO	NAME OF PARTICIPANTS	SIGNATURE
①	Sanjay B. Bodke	
②	Manohar J. Padole	
③	Vidthal P. Uike	
④	Amol V. Patil	
⑤	Dinesh N. Nikhade	
⑥	Prakash Kamble	
⑦	Mahendra P. Khay	
⑧	Gopal T. Pulasakar	
⑨	Bhushan Laxadhar Kade	
⑩	Dr. V.G. Manwar	
⑪	Dr. S.D. Yeotkar	
⑫	Mr. R.S. Gawar	
⑬	Miss. Anvita Thakare	
⑭	Miss. Vaidarshi Ghungrud	
⑮	Dr. Basali	

VIDYA VIKAS ART'S, COMMERCE AND SCIENCE
COLLEGE, SAMUDRAPUR

FEEDBACK FORM

Name of Student: Bhushan L. Kadey

Department: 2018/04 Class: _____ Session: _____ Contact No.: 8999813768

Name of Programme: Hands on Training for Lab assistance.

1. What have you felt about this programme?

(A) Excellent (B) Very Good (C) Good (D) Average

2. Is this speech of the resource person/ guest influential?

(A) Yes (B) No

3. Are such programmes useful for you?

(A) Yes (B) No

4. Do you feel this programme important for your future ?

(A) Yes (B) No

5. Have you got aware in your life from this programme?

(A) Yes (B) No

6. Give suggestions if any for further improvement _____

Date: 15/07/24

Place: Samudrapur


Student signature



VIDYA VIKAS ART'S, COMMERCE AND SCIENCE
COLLEGE, SAMUDRAPUR

FEEDBACK FORM

Name of Student: Sanjay Bhalbar Bodke

Department: Biology Class: _____ Session: _____ Contact No.: 9860211646

Name of Programme: Hands on Training for Lab Assistants

1. What have you felt about this programme?

(A) Excellent (B) Very Good (C) Good (D) Average

2. Is this speech of the resource person/ guest influential?

(A) Yes (B) No

3. Are such programmes useful for you?

(A) Yes (B) No

4. Do you feel this programme related to your curriculum?

(A) Yes (B) No

5. Have you got motivation from this programme?

(A) Yes (B) No

6. Give suggestions if any for further improvement _____

Date: 15/7/24

Bodke
Student signature

Place: Samudrapur