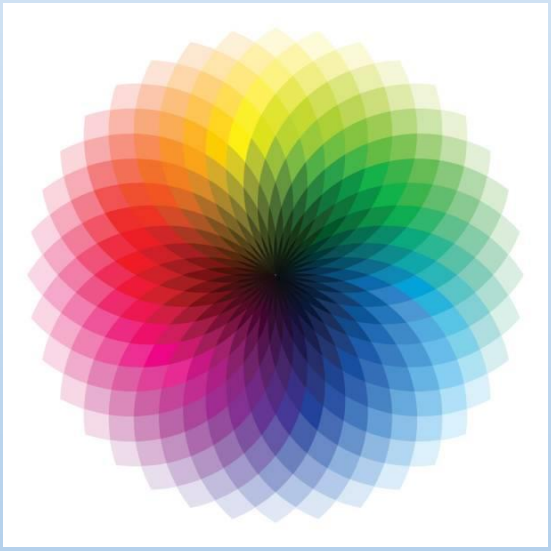


Craftopia Colorimeter

One-Day Hands-on Training on Low-Cost Colorimeter Design Using a Craft Box and Smartphone Application

Presented by Kamla Nehru Mahavidyalaya, Nagpur, and Shri Shivaji Science College, Nagpur

Event Details:

Date: **13/03/2024**

Time: **9.30 AM**

Venue: **Chemistry Lab Kamala Nehru Mahavidyalaya, Nagpur**

Kamala Nehru Mahavidyalaya, Nagpur

Report on Craftopia Colorimeter : One-Day Hands-on Training on Low-Cost Colorimeter Design

Date: March 13, 2024

Time: 9:30 AM

Venue: Kamla Nehru Mahavidyalaya, Nagpur

Introduction

On **March 13, 2024**, Kamla Nehru Mahavidyalaya, Nagpur, in collaboration with Shri Shivaji Science College, Nagpur, organized a one-day hands-on training session on "Low-Cost Colorimeter Design Using a Craft Box and Smartphone Application for Color Analysis and Concentration Measurements." This innovative training program was notable for featuring two college students as resource persons, marking the first time students have led such a session for both students and faculty members.

Resource Persons

Ms. Shabhat Khan from PG Chemistry, Shri Shivaji Science College

Ms. Shrushti Ninawe UG, Shri Shivaji Science College

Program Overview

The training commenced at 9:30 AM with an introduction to the objectives and significance of the session. The collaboration between the Chemistry Departments of Kamla Nehru Mahavidyalaya and Shri Shivaji Science College aimed to provide an accessible and affordable approach to colorimetry through the use of craft boxes and smartphone applications.

Key Learning Outcomes

Basics of Color Analysis and Concentration Measurements:

Participants were introduced to the fundamental principles of colorimetry and its applications in various scientific fields.

Building a Low-Cost Colorimeter:

The hands-on session guided participants through the process of constructing a functional colorimeter using simple materials such as a craft box and basic electronic components.

Utilizing Smartphone Applications:

Participants learned to use smartphone applications for accurate color analysis and concentration measurements, demonstrating the integration of technology with traditional scientific methods.

Participation and Engagement

The training saw active participation from both students and faculty members of Kamla Nehru Mahavidyalaya. The unique approach of having student resource persons led to an engaging and interactive learning environment. The session provided a platform for students to showcase their knowledge and teaching skills, inspiring their peers and faculty members alike.

UNESCO Goal Alignment

This activity aligned with UNESCO's Sustainable Development Goals (SDGs) by promoting quality education and fostering innovation. The hands-on training emphasized the importance of accessible and practical scientific education, contributing to the broader goal of enhancing scientific literacy and skills.

Feedback and Conclusion

The feedback from participants was overwhelmingly positive. Both students and faculty members appreciated the practical approach and the innovative use of everyday materials to conduct scientific experiments. The collaboration between the two colleges was highlighted as a successful model for future educational initiatives.

In conclusion, the one-day hands-on training on low-cost colorimeter design was a resounding success. It not only provided valuable scientific knowledge and skills but also set a precedent for student-led educational activities. The Chemistry Departments of Kamla Nehru Mahavidyalaya and Shri Shivaji Science College look forward to more such collaborative efforts in the future.

Figure 1- Ms. Shrushti Ninawe Delivering a Training Note to the Audiences

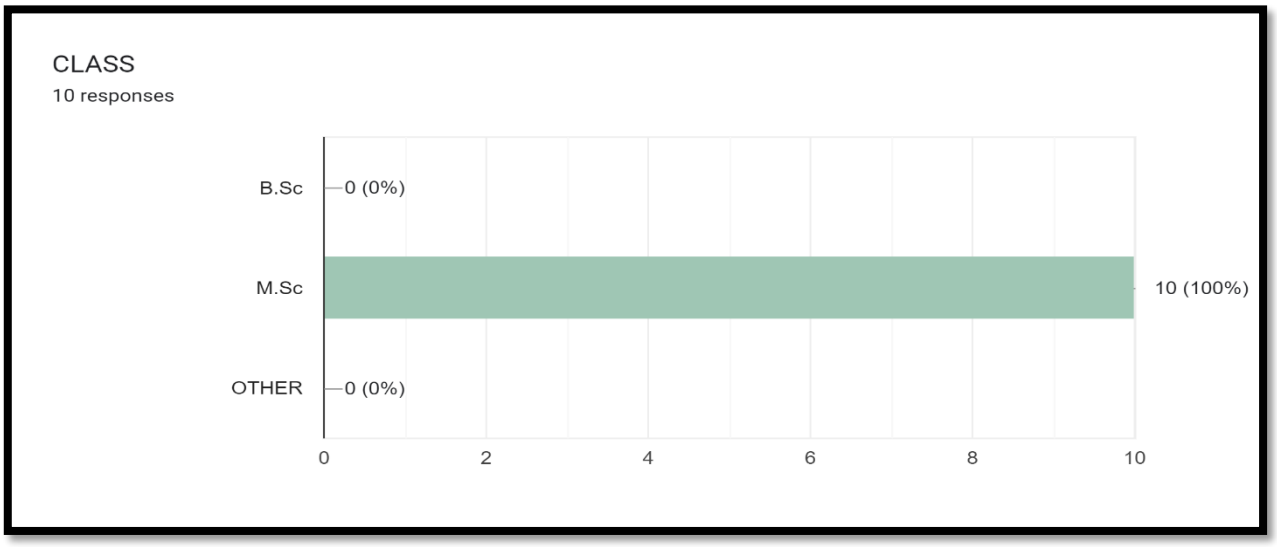
Figure 2- Ms. Shabhat Khan Delivering a Training Note to the Audiences

Figure 3- Students were Busy with Smart Phone applications and Craft Colorimeter

For More Details Click

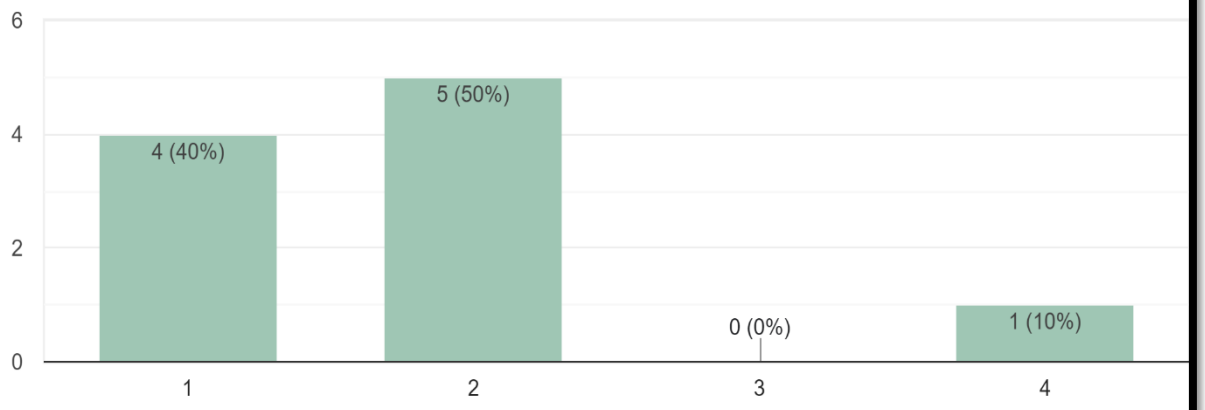
One-Day Hands-on Training on Low-Cost Colorimeter Design Using a Craft Box and Smartphone Application
On 13th March 2024 at 9:30 am
Venue: Department of Chemistry, Kamla Nehru Mahavidyalaya, Nagpur.

FEEDBACK ANALYSIS AND ACTION TAKEN REPORT



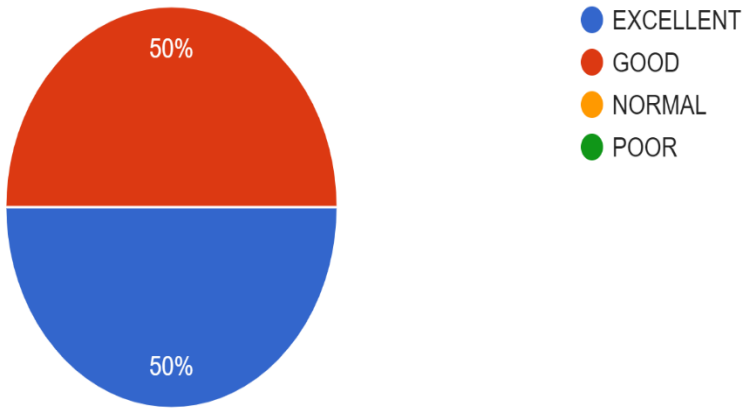
How satisfied were you with the Workshop?

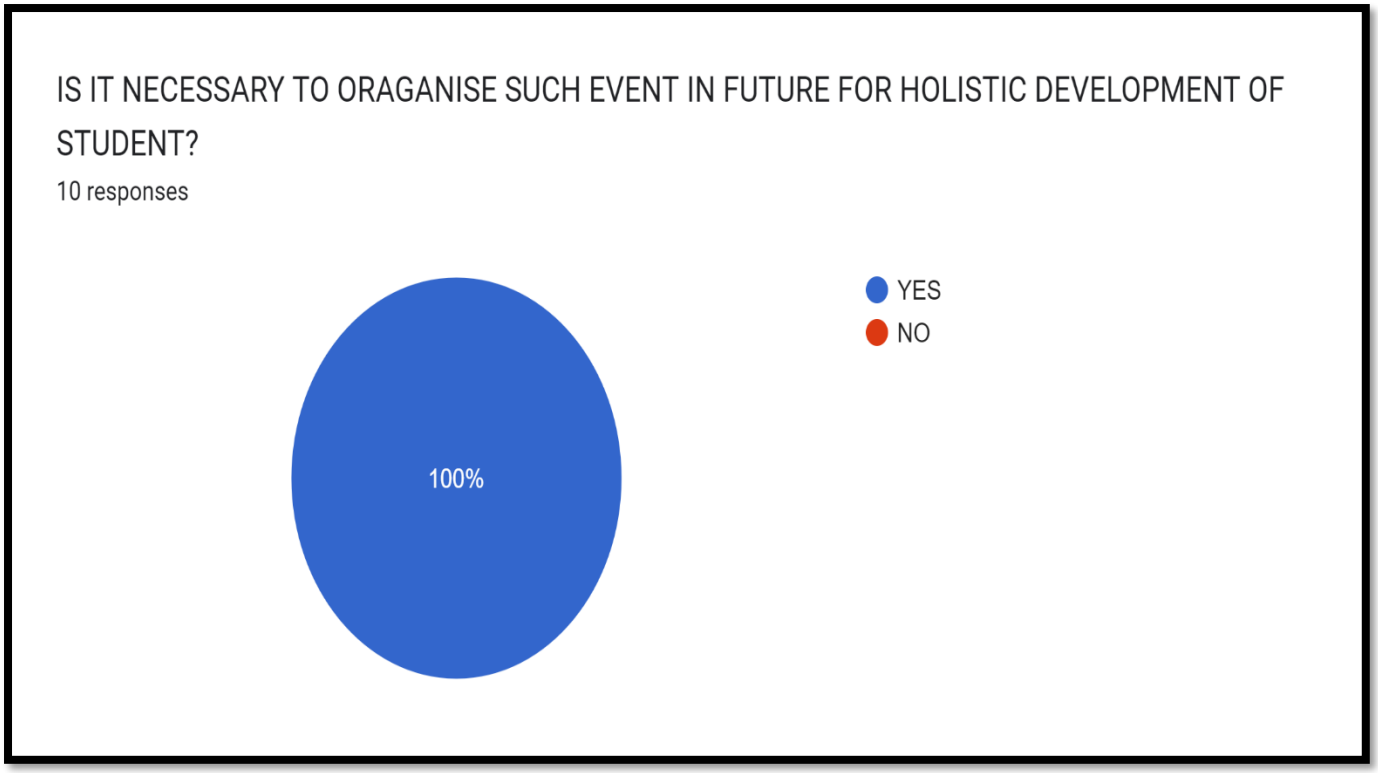
10 responses



OVERALL CONTENT AND PRESENTATION RESOURCE PERSONS MS. SHABAT KHAN AND MS SHRUSHTI NINAWE.

10 responses





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A total 50 Students were participated for the workshop.

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Action Taken:

This activity was organized under the MOU signed between Shivaji Science College, Nagpur and Kamla Nehru Mahavidyala, Nagpur.

Based on wtitten feedback collected from students is necessary to conduct such type of events for the overall development of Students, hence it is decided to conduct this activity every year for benefit of students.

Professor & Head
Department of Chemistry
Shivaji Science College
Nagpur

HOD, Chemistry,
Shivaji Science college, Nagpur.

Principal
Shivaji Science College, Nagpur.

HOD, Chemistry,
Kamla Nehru Mahavidyalaya, Nagpur.

Principal
Kamla Nehru Mahavidyalaya, Nagpur.

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HOD, Chemistry,
Shivaji Science college, Nagpur

Professor & Head
Department of Chemistry,
Shri Shivaji Science College
Congress Nagar, Nagpur.

Principal
Shivaji Science College, Nagpur.

HOD, Chemistry,
Head of the Depart.
Kamla Nehru Mahavidyalaya, Nagpur.

Chemistry
Kamla Nehru Mahavidyalaya
Sakkardara Chowk, Nagpur

Principal
Kamla Nehru Mahavidyalaya, Nagpur.

PRINCIPAL
Kamla Nehru Mahavidyalaya
Sakkardara Chowk, Nagpur

One-Day Hands-on Training on Low-Cost Colorimeter Design Using a Craft Box and Smartphone Application

On 13th March 2024 at 9:30 am

Venue: Department of Chemistry, Kamla Nehru Mahavidyalaya, Nagpur.

STUDENT ATTENDANCE SHEET

S.NO	NAME OF STUDENT	CLASS	SIGNATURE	REMARK
01	shubham D. shahare	Msc - II chemistry	Shahare	
02	Rushabh C. Lute	B.Sc IIIrd yr	Rushabh. Lute	
03	Prashant S - Rahulkar	B.Sc IIIrd yr	Rahul	
04	Ayush . R. Hatwar	BSc IIIrd yr	Hatwar	
05	Bhavya N. Kandar.	MSc I Chemistry	Kandari	
06	Rutuja R. Raut	M.Sc I year chemistry	Rutuja R. Raut	
07	Shivani G. Bhute	M.Sc I year Chemistry	Bhute	
08	Apurva. thobregade	msc. I year chemistry	Apurva.	
09	Mahi . U. Kareo	msc I year Chemistry	Mahi	
10	Mansi . R. Thawkar.	M.Sc I year chemistry	Mansi	
11	Bhagyashri . D. Sharnagat	M.Sc I year chemistry	Bhagyashri	
12	Payal Gurudeo Bhoyar	msc 1 year Chemistry	Bhoyar	
13	Mayuri Nandlal Bodelexit	Msc 1 year chemistry	Mbodelexit	
14	Rani Umashankar Sah	Msc sem II II year (Chem)	Rani	
15	Vibha . R. Mishra	Msc sem-II	Vibha	
16	Madhuri . R. Bhalavi	MSc sem-II	Bhalavi	
17	Shubham C. Dhok	M.Sc sem II	Shubham	
18	Mansi P. Bhaisare	M.Sc sem IV	Bhaisare	
19	Pranali . M. Khadse	M.Sc sem IV	Pkhadse	
20	Prachi S Atkare	M.S.C sem IV	Prachi	

ORGANIZING SECRETARY

Wasmule

HEAD OF DEPARTMENT

One-Day Hands-on Training on Low-Cost Colorimeter Design Using a Craft Box and Smartphone Application
On 13th March 2024 at 9:30 am
Venue: Department of Chemistry, Kamla Nehru Mahavidyalaya, Nagpur.
STUDENT ATTENDANCE SHEET

S.NO	NAME OF STUDENT	CLASS	SIGNATURE	REMARK
21	Shraddha N Lamkarkar	M.Sc IV		
22	Ekta R. Sahare	-11-		
23	Sejal S. Dhorkar	-11-		
24	Mayuri. S. Pandhare	-11-		
25	Shrushti. R. Dongre	BSc 3rd year		
26	Sakshi G. Shete	M.Sc. II yr		
27	Harshada S. Thakre	M.Sc II yr		
28	Akanksha H. Ninawe	M.Sc. II yr		
29	Prachi P. Rokade	M.Sc. II yr		
30	Prachi S. Sahare	M.Sc I yr		
31	Sanjivani C. Ingale	M.Sc I yr		
32	Divyani Mahulkar	M.Sc 3rd		
33	Sakshi Chikhale	MSC I yr		
34	Kavita Badwaik	MSc IInd		
35	Rhutuja P. Dhame	BSc 3rd yr		
36	Purva S. Lokhande	BSc 3rd yr		
37	Shruti D. mahure	BSc 3rd year		
38	Dhanashri R. Khodke	Bsc 3rd yr		
39	Saloni L. Mehar	BSc 3rd yr		
40	Mayuri N. Bhoyar	BSc 3rd yr		

ORGANIZING SECRETARY

HEAD OF DEPARTMENT

One-Day Hands-on Training on Low-Cost Colorimeter Design Using a Craft Box and Smartphone Application

On 13th March 2024 at 9:30 am

Venue: Department of Chemistry, Kamla Nehru Mahavidyalaya, Nagpur.

STUDENT ATTENDANCE SHEET

S.NO	NAME OF STUDENT	CLASS	SIGNATURE	REMARK
41	priyanka p. ohone.	B.Sc II sem	P. Ohone	
42	omeshwari c. warare.	B.Sc VI sem	Olare	
43	krutika m. kumbhare.	B.Sc. VI sem	Kumbhare	
44	shraddha v. patil.	BSc VI sem	Spatil	
45	khushi g. Nerkar	BSc III sem	K. Nerkar	
46.		-		