REPORT

One day hands on training workshop on "Characterization of Nanomaterials and illustration of Their Innovative Applications". Date: 27th January 2024.

S.N.	Activity	Particula rs
1	Theme	Characterization of Nanomaterials and illustration of Their Innovative Applications
2	Date	27 th Jan. 2024 (one day)
3	Fees/registration charges	Free of cost
4	Venue	Dept. of Physics, The Institute of Science, MUMBAI.
5	Target group	Second and third year B.Sc. Physics students
6	Number of students registered	84
7	Number of beneficiaries	80
8	Topics covered	XRD (X – Ray Diffraction), SEM (ScanningElectron Microscopy), UV Visible Spectroscopy, FTIR(Fourier transform infrared spectroscopy), Electrochemical Water Splitting, Super Capacitor, Electrochromism, Solar Cell
9	Issue of certificates	Certificates were issued to all beneficiaries
10	Convener and Resource person	Prof. A. V. Kadam, The Institute of Science, MUMBAI,
11	Chairpersons	 Prof. S.B. Kulkarni, I/C Director, Institute of Science, MUMBAI. Prof. Rajaneesh Kamat (VC, Dr. Homi Bhabha State University, Fort, Mumbai)
12	Trainers	1. Suchitra Nirudas Sapakal 2. Aisha Khan 3. Amar Jadhav 4. Sharad Jadhav 5. Puja Deshmukh 6. Pratik Sutar 7. Gopika Rajan 8. Nikhat Shikh 9. Vrushali Jadhav 10. Afreen Mirza 11. Rukhasar Momin 12. Priya Gaikwad 13. Vijay Kule 14. Rohit Patil 15. Kaushal Gavankar 16. Omar Shaikh

One day hands on training workshop on "Characterization of Nanomaterials and illustration of Their Innovative Applications" was organized on 27th January 2024 by Department of Physics, The Institute of Science, Mumbai. The aim of this workshop was to give hands-on training of nano material characterizations (SEM, FTIR, XRD and UV-vis spectroscopy) and its applications (Water splitting. Super capacitor, solar cell and electrochromism) to the under graduate (S.Y. and T.Y. B.Sc. Physics) students of all over Maharashtra.

The workshop was inaugurated by the auspicious hands of chairpersons, Prof. Rajaneesh Kamat (VC, Dr. Homi Bhabha State University, Fort, Mumbai) and Prof. S.B. Kulkarni. Prof. Rajaneesh Kamat in his inaugural speech explained the importance of nanomaterials in today's technological world. Prof. Kulkarni, in his speech explained the importance of characterization techniques for the accurate analysis of nanomaterials. Prof. R. B. Kale stated the importance of such kind of workshops for the students to encourage them towards research. Prof. Anamika Kadam was the anchor for the inaugural function also she gave the vote of thanks.

After inauguration, the hands on training was started. The students were divide into 6 groups and each group visited to the all characterization as well as application labs one by one. The XRD lab was handled by Ms. Gopika Rajan, Mr. Vijay Kule. The UV-vis spectroscopy explained by Ms. Aisha Khan and Ms. Vrushali Jadhav. The SEM instrument was handled by Mr. Amar Jadhav and Ms. Nikhat Shikh. The FTIR was explained n=by Ms. Aisha Khan and Mr. Rohit Patil. Further, in the application session, Supercapacitor was explained by Ms. Priya Gaikawad, Mr. Pratik Sutar and Mr. Omar Shaikh. The water splitting and electrochromism experiments were demonstrated by Ms. Suchitra Nirudas Sapakal, Ms Puja Deshmukh and Mr. Kaushal Gavankar, The solar cell experiment was shown by Ms. Afreen Mirza nad Ms Rukhasar Momin

At the end of workshop, feedback link was provided to the participants and respaces were recorded. Further, some of the participants gave their valuable feedbacks and certificate s were distributed to all the participants .

Announcement







Dr. Homi Bhabha State University

The Institute of Science

Madam Cama Road 15, Churchgate, Mumbai 400032 (centre with Potential for Excellence & NAAC reaccredited 'A' Grade)

DEPARTMENT OF PHYSICS

Under DST-SERB Scientific Social Responsibility in Association with IQAC centre & School Connect Committee Organizing

Certificate Oriented Workshop for Graduate Students On

Characterization of Nanomaterials and illustration of Their Innovative Applications

Day and Date: Saturday, 27- January 2024, From 10.00 a.m. to 5.00 p.m.

PATRONS

- Prof. Rajanish Kamat (Hon'ble Vice Chancellor of HBSU)
- Prof. S.B. Kulkarni (Director)
- Prof. Rohidas B, Kale (HOD of Physics)
- Prof. Anamika V. Kadam (Convenor)
 Inaugural talk by

 Prof. Rajanish Kamat (Hon'ble Vice chancellor of HBSU)

Explore

Characterisation Techniques

- XRD (X Ray Diffraction)
- > SEM (ScanningElectron Microscopy)
- UV Visible Spectroscopy
- > FTIR(Fourier transform infrared spectroscopy)

Applications OfNanomaterials

- > Electrochemical Water Splitting
- Super Capacitor
- Electrochromism
- > Solar Cell



Registration link: https://forms.gle/D7wrNZx5gCUug2P17

Join WhatsApp group:

https://chat.whatsapp.com/JxVcTUPVRP1EbpP03x8qg8

Help Desk: 9623262507, 9324469131

Registration will be closed on 24 January 2024

Eligibility: SYBSC AND TYBSC (PHYSICS) Students from all the Colleges are Welcome

Kindly Note: Limited seats are available; selection will be based on first come first serve basis. So, hurry up!

Open your mind to the field of nanoscience Applications

Glimpses of Workshop

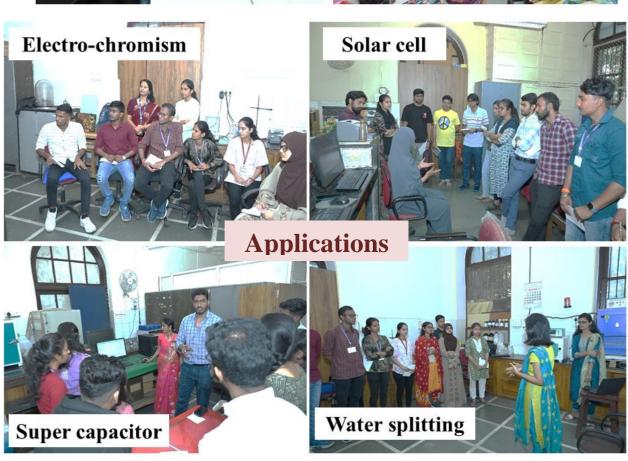






Hands on Training





Felicitation ceremony





Timetable and groups

One-day Certificate Oriented Workshop for Graduate Students on Characterization of Nanomaterials and illustration of Their Innovative Applications

Day: Saturday, Date: 27th January 2024

Time	Program
10:00 am -10:25 am	Registration and distribution of kit
10.30 am to 11.15 am	Inauguration ceremony
	Talk by Prof. Rajanish Kamat (Hon'ble Voice chancellor of HBSU)
11.15 am to 11.30 am	Tea Break
11.30 am to 12.00 pm	Instrument-1
12.00 pm to12.30 pm	Instrument-2
12.30 pm to 01.00 pm	Instrument-3
01.00 pm to 2.00 pm	Lunch Break
2.00 pm to 2.30 pm	Instrument-4
2.30 pm to 3.00 pm	Instrument-5
3.00 pm to 3.30 pm	Instrument-6
3.30 pm to 3.45 pm	Tea Break
3.45 pm to 4.15 pm	Felicitation ceremony (Feedback and certificate distribution)

Group wise time table

Instrument Time	XRD+UV	SEM	FTIR	Water+ Electrochromic	Super capacitor	Solar Cell
11.30 am to12.00 pm	G-1	G-2	G-3	G-4	G-5	G-6
12.00 pm to12.30 pm	G-6	G-1	G-2	G-3	G-4	G-5
12.30 pm to 01.00 pm	G-5	G-6	G-1	G-2	G-3	G-4
		LUNCH	BREAK (1.	00 pm – 2.00 pm)		
2.00 pm to 2.30 pm	G-4	G-5	G-6	G-1	G-2	G-3
2.30 pm to 3.00 pm	G-3	G-4	G-5	G-6	G-1	G-2
3.00 pm to 3.30 pm	G-2	G-3	G-4	G-5	G-6	G-1

Batches

Batches	
G1	1-14
G2	15-28
G3	29-42
G4	43-56
G5	57-69
G6	70-83

Details of Batches

	G1 Batch
1	Aakash Gaikwad
2	Aashish dipak rajeshirke
3	Aditee Pradeep Basutkar
4	Aditi Hanumant Tawde
5	Aditi Prasad Sakhare
6	Aditya Jagendra Solanki
	Amalkrishna Divakaran
7	Chozhiyattil
8	Anand Tiwari
9	Aniket Akhilesh Tiwari
10	Ansh Arun Shinde

11	Anurag R. Yadav	
12	Arya Hanmant Pisal	
13	Atharva Sandeep Raut	
14	Ayush Ghadigoankar	

G2 Batch

Azhar husain Racen
Bainty Kaur Chugh
Borude Nitin Dayandev
Chandrika Naikar
Churi Atharva Lalit
Dange Sanket Shridhar
Devraj dadu mane
Divya roopsingh rajpurohit
Esha Harisharan Jha
Gauri Ajit Rane
Jalvi chinmay vivek
Kewat Deepak Bindravan
Kumbhar Aditya Ajay
Magar Samiksha Sunil Leela

G3 Batch

	G3 Batten	
29	Mansi Rajurkar	_
30	Maulik Sameer Dixit	
31	Medage Sohan Mahadev	_
32	Michelle Doosta	_
33	Mishra Abhishek Manoj	_
34	Mukesh Ramesh Jaiswar	
35	Nacemur Rehman Shaikh	_
36	Nalage Vishakha Satish	_
37	Niraj Ramesh Vaknis	_
38	Omkar Mahendra Kamble	_
	Prathamesh Narayan Rumade	_
40	Pratik Umesh Desale	
41	Priyunka Ashok Patil	
42	Priyanshu Anuniay Singh	_

G4 Batch

43	Omkar Sangar
44	Reeta chaubey chandrabhan
45	Ritika Surendra Yadav
46	Sachin Sunil Jaiswur
47	Sachinkumar Jayprakash
48	Sahil Abhiram Rout
49	Sahil Santosh Pawade
50	Samarth patil
51	Sanskruti Amar Khare

52	Satvik santosh kamble	
53	Sayali Santosh Chalse	
54	Sayyad Nahida Anjum	
55	Shaikh Humayrah Ibrahim	
56	Shaikh muskan salim	

G5 Batch

	G5 Batch
57	Shinde Rutuja Ramesh
58	Shravani Anil Jadhav
59	Shreya Narendra Gharat
60	Shreyash Rajesh Meher
61	Shubham Masurkar
62	Shweta Suresh Kumar Naikar
63	SOHAM SANJAY TANDEL
64	Sonam Girish Kumar Singh
65	Srushti Tushar kothawale
66	Suyash Kailas Bhatkar
67	Suyesha Devendra Sakhare
68	Swapnarani Swarup Jena
69	Swayam Santosh Tirlotkar

G6 Batch

70	syed mohd kashif
71	Tithee Parab
72	TIWARI PALAK PRAVESH
73	Vaibhav patidar
74	Varun Vinayak Phatak
75	Vedant Shriram Mahadik
76	Vikas Umesh Gaud
77	Vinayak Mohan Bhanushali
78	Yadav Aman Lalji
79	Yadav Priyanka Virendra
80	Yadav Sachin munnilal
81	Yadav somesh shivshankar
82	Yash Mahesh Shinde
83	Nalawade Megha Hanumant

Attendance

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10 Ansh Arun Shinde	Ansh.
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13 Atharva Sandeep Raut	Acret
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19 Churi Atharva Lalit	The state of the s
20 Dange Sanket Shridhar	Dut-
· 21 Devraj dadu mane	Saprane.
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23 Esha Harisharan Jha	tha.
24 Gauri Ajit Rane	G. W.
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39	Prathamesh Narayan Rumade	Remade
40	Pratik Umesh Desale	11.50
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42	Priyanshu Arunjay Singh	affingle
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45	Ritika Surendra Yadav	Ridar
16	Sachin Sunil Jaiswar	Sauth
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71 Tithee Parab	
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73 Vaibhav patidar	Present
74 Varun Vinayak Phatak	
75 Vedant Shriram Mahadik	Vanut
76 Vikas Umesh Gaud	Mahaelik
77 Vinayak Mohan Bhanushali	The state of the s
78 Yadav Aman Lalji	ENK.
79 Yadav Priyanka Virendra	yadar Ameri
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2 Yash Mahesh Shinde	Shide
3 Nalawade Megha Hanumant	Megha

Feedback

