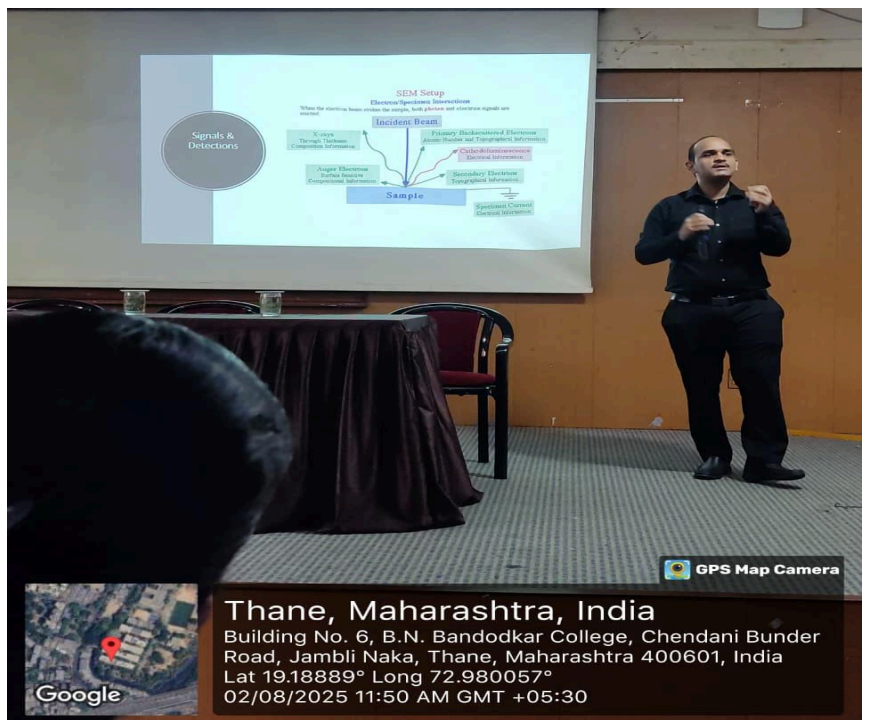


VPM's B. N. Bandodkar College of Science (Autonomous), Thane

Name of activity	A Guest Lecture on “Unlocking the Microscopic World: Basics and Applications of Scanning Electron Microscopy”
Objectives of the activity (maximum 40 words)	<ul style="list-style-type: none"> ● To enable students to grasp the fundamentals of Scanning Electron Microscopy (SEM). ● To familiarize students with the working mechanism and SEM data interpretation. ● To expose students to SEM’s real-world application in biological and material sciences. ● To encourage exploration of career paths and research prospects in microscopy and imaging sciences.
Organizing department/s	Department of Physics in collaboration with Department of Biochemistry, Biotechnology and Microbiology
Collaborative institute	None
Date (DD / MM / YYYY)	02/08/2025
Venue	Patanjali Auditorium
Mode (Online/Offline/ Hybrid)	Offline
Details of Resource Person/ Speaker (name, designation, institute)	Mr. Avdhesh Yadav, Service Manager at CAMECA Ametek Instruments India Pvt. Ltd.
Key Participants	F.Y., S.Y., & T.Y.B.Sc. students of Degree College
Remarkable outcomes / key take away messages (max. three)	<ul style="list-style-type: none"> ● Students gained conceptual clarity on SEM, including how electron interactions generate high-resolution images compared to conventional microscopy techniques. ● The session discussed diverse applications of SEM in biological sciences, material characterization, nanotechnology, and diagnostics. ● Students could reflect on potential career and research opportunities in microscopy and imaging sciences, connecting the lecture content to their future academic and professional goal.
Details of Teacher participants	M - 04 F - 05 T - 09
Details of Student participants	M - 40 F- 107 T - 147
Outsiders	Nil
In-house	M- 40 F- 107 T-147
Additional information	-
Name of Co-ordinator/s	Dr. Sangita Meshram, Ms. Sayali Daptardar, Dr. Kalpita Mulye, Dr. Jayashree Pawar,

VPM's B. N. Bandodkar College of Science (Autonomous), Thane

Geotagged photo



VPM's B. N. Bandodkar College of Science (Autonomous), Thane

Flyer

B. N. Bandodkar college of Science (Autonomous)



A Guest lecture on
Unlocking the Microscopic World: Basics and Applications of Scanning Electron Microscopy

by
Mr. Avdesh Yadav

(Cameca AMETEK Instruments India Pvt. Ltd)

What secrets can an electron beam reveal?

Join us to explore the basics of Scanning Electron Microscopy (SEM) and discover its incredible applications in science and technology

DON'T MISS THE CHANCE TO SEE THE INVISIBLE!

Venue: Patanjali Auditorium

August 2, 2025

11 AM to 12 PM

Organized by the Physics Department In collaboration with Department of Biochemistry, Biotechnology and Microbiology

Dr. Vinda Manjramkar
I/C Principal

Dr. Sangita Mehtram
HOD Physics

Attendance

VPM's B. N. Bandodkar College of Science (Autonomous) Thane
Department of Physics
Activity Attendance

Activity Name: - A Guest lecture on (Basics & Unlocking the microscopy)
Mr. Avdesh Yadav
Organizer: - Physics Department; BT, MB, Biochem
Date: - 21/08/25

Sr. No	PRN No	Student Name	M/F	Class	Group	Sign.
1	2024120132	Rudra Rai	M	SYBSC	PMB	Rudra
2	2024120179	Anhar. S. Akgad.	M	SYBSC	PCM	Anhar
3	2024120144	Yash. G. Sonawar	M	SYBSC	PMZ	Yash
4	2024120293	Yash. S. Sonawar	F	SYBSC	Micro	Scaron
5	2024120312	Venna Jadhav	F	SYBSC	Biochem	Venna
6	2024120325	Dhanashree Athre	F	SYBSC	Biochem	Dhanashree
7	2024120319	Annu. Madhwal	F	SYBSC	Biochem	Annu
8	2024120188	Rudra. P. D. D. D.	M	SYBSC	PCM	Rudra
9	2024120124	Nesha Verma	M	SYBSC	PCB	Nesha
10	2024120146	Tanuj. G. G.	M	SYBSC	PCB	Tanuj
11	2024120170	Ashish. K. K.	M	SYBSC	PCB	Ashish
12	2024120315	Sinista. C. C.	F	SYBSC	BC	Sinista
13	2024120293	Shreya. P. P.	F	SYBSC	BC	Shreya
14	2024120227	Pradnya. K. K.	F	SYBSC	BC	Pradnya
15	2024120309	Heba. A. A.	F	SYBSC	BC	Heba
16	2024120309	Shruti. C. C.	F	SYBSC	BC	Shruti
17	2023120306	Pragya. D. D.	F	TYBSC	Chemistry	Pragya
18	-	Ashish. D. D.	F	SYBSC	Physics	Ashish
19	-	Vinay. V. V.	M	SYBSC	Physics	Vinay
20	-	Shak. A. A.	M	SYBSC	Physics	Shak
21	-	Sahil. S. S.	M	SYBSC	Physics	Sahil
22	-	Ashish. S. S.	M	SYBSC	Physics	Ashish
23	-	Kashish. K. K.	M	SYBSC	Physics	Kashish
24	2024120150	Prisha. P. P.	F	SYBSC	Physics	Prisha
25	2024120134	Manu. M. M.	M	SYBSC	Physics	Manu
26	2024120130	Chaitanya. C. C.	M	SYBSC	Physics	Chaitanya
27	2023120180	Jyoti. J. J.	F	TYBSC	Biochem	Jyoti
28	2023120201	Yashvi. Y. Y.	F	TYBSC	Biochem	Yashvi

VPM's B. N. Bandodkar College of Science (Autonomous), Thane

VPM's B. N. Bandodkar College of Science (Autonomous) Thane
 Department of Physics
 Activity Attendance

Activity Name: - Guest lecture on Basics & Applications of Scanning
 Electron Microscopy - Mr. Anshesh Yadav
 Organizer: - Physics Department (BT/MS/Biochem)

Date: - 21/8/2025 -

Sr. No	PRN No	Student Name	M/F	Class	Group	Sign.
1	2023420258	Radnyee Parrab	F	TYBSc	PCB	<i>[Signature]</i>
2	2023420312	Anushka Mali	F	TYBSc	PCM	<i>[Signature]</i>
3	2023420346	Rasturi Radam	F	TYBSc	PMS	<i>[Signature]</i>
4	2023420348	Tanhavi Patil	F	TYBSc	PZB	<i>[Signature]</i>
5	2023420172	Yagya Bhandari	F	TYBCh	Biochem	<i>[Signature]</i>
6	2023420176	Pavithra Bhatnagar	F	TYBCh	Biochem	<i>[Signature]</i>
7	2023420159	Koti Nandyal	F	TYBSc	Biochem	<i>[Signature]</i>
8	2024420276	Shabnam Poo Shaikh	F	SYBSc	Micro	<i>[Signature]</i>
9	2024420266	Zerger Feroze	F	SYBSc	Micro	<i>[Signature]</i>
10	2024420288	Sonay Manojga	F	SYBSc	Micro	<i>[Signature]</i>
11	2024420289	Khan Mariyam Riyaz	F	SYBSc	Micro	<i>[Signature]</i>
12	2023420193	Mujali Dawud	F	TYBSc	Biochem	<i>[Signature]</i>
13	2023420183	Shaikh Sumaira	F	TYBSc	Biochem	<i>[Signature]</i>
14	2023420183	Sakshi Gawade	F	TYBSc	Biochem	<i>[Signature]</i>
15	2023420157	Nishtha Desai	F	TYBSc	Biochem	<i>[Signature]</i>
16	2023420163	Sneha Shinde	F	TYBSc	Biochem	<i>[Signature]</i>
17	2023420160	Shreya Shaikh	F	TYBSc	Biochem	<i>[Signature]</i>
18	2023420169	Neha Khan	F	TYBSc	Biochem	<i>[Signature]</i>
19	2023420166	Madhvi Vaidya	F	TYBSc	Biochem	<i>[Signature]</i>
20	2023420158	Anshu Khude	F	TYBSc	Biochem	<i>[Signature]</i>
21	2023420170	Siva Tathil	F	TYBSc	Biochem	<i>[Signature]</i>
22	2023420173	Shelali Sawant	F	TYBSc	Biochem	<i>[Signature]</i>
23	2023420149	Tarapatra Nikita	F	TYBSc	Biochem	<i>[Signature]</i>
24	2023420072	Sagar Vighnesh	F	TYBSc	Biochem	<i>[Signature]</i>
25	2023420247	Khan Sabira	F	TYBSc	Biochem	<i>[Signature]</i>
26	2023420135	Chaudhary Apurva	F	TYBSc	Biochem	<i>[Signature]</i>
27	2023420129	Bonawane Chaitanya	F	TYBSc	Biochem	<i>[Signature]</i>

29	2025120033	Shaikh Amanam	M	FYBSc	Biochem	<i>[Signature]</i>
30	2025120033	Imayyaz Chaudhary	M	FYBSc	Biochem	<i>[Signature]</i>
31	2025120033	Farah Anwar	F	FYBSc	Biochem	<i>[Signature]</i>
32	2025120033	Omair Khan	M	FYBSc	Biochem	<i>[Signature]</i>
33	2025120033	Shiraz Khan	M	FYBSc	Biochem	<i>[Signature]</i>
34	2025120033	Vijayeshwar Bhatnagar	M	FYBSc	Biochem	<i>[Signature]</i>
35	2025120033	Sahil Kadam	M	FYBSc	Biochem	<i>[Signature]</i>
36	2025120033	Sahil Kadam	M	FYBSc	Biochem	<i>[Signature]</i>
37	2025120033	Dipesh D Chaudhary	M	FYBSc	Biochem	<i>[Signature]</i>
38	2025120033	Harshita Jadhav	F	FYBSc	Biochem	<i>[Signature]</i>
39	2025120033	Kasturi Kulkarni	F	FYBSc	Biochem	<i>[Signature]</i>
40	2025120033	Trishu Ghorpade	M	FYBSc	Biochem	<i>[Signature]</i>
41	2025120033	Jyoti Dargade	F	FYBSc	Biochem	<i>[Signature]</i>
42	2025120033	Prachi Pradhan	F	FYBSc	Biochem	<i>[Signature]</i>
43	2025120033	Drishvi Patil	F	FYBSc	Biochem	<i>[Signature]</i>
44	2025120033	Ashli Khande	M	FYBSc	Biochem	<i>[Signature]</i>
45	2025120033	Rohit Shinde	M	FYBSc	Biochem	<i>[Signature]</i>
46	2025120033	Sahil Rajbhosle	M	FYBSc	Biochem	<i>[Signature]</i>
47	2025120033	Suraj Y. Yadav	M	FYBSc	Biochem	<i>[Signature]</i>
48	2025120033	Shriya V. Bhatnagar	F	FYBSc	Biochem	<i>[Signature]</i>
49	2025120033	Arunnanda Prabhakar	F	FYBSc	Biochem	<i>[Signature]</i>
50	2025120033	Heena Shaikh	F	FYBSc	Biochem	<i>[Signature]</i>
51	2025120033	Pratishtha Dhayagude	F	FYBSc	Biochem	<i>[Signature]</i>
52	2025120033	Chandhama Khande	F	FYBSc	Biochem	<i>[Signature]</i>
53	2025120033	Vidhi Khande	F	FYBSc	Biochem	<i>[Signature]</i>
54	2025120033	Khushi N. D. D.	F	FYBSc	Biochem	<i>[Signature]</i>
55	2025120033	Sushruti Yadav	F	FYBSc	Biochem	<i>[Signature]</i>
56	2025120033	Nikhil R. Ghorpade	M	FYBSc	Biochem	<i>[Signature]</i>
57	2025120033	Anshu S. Ghorpade	M	FYBSc	Biochem	<i>[Signature]</i>
58	2025120033	Swasthika Suresh	M	FYBSc	Biochem	<i>[Signature]</i>
59	2025120033	Moh. A. Shaikh	M	FYBSc	Biochem	<i>[Signature]</i>
60	2025120033	Dakshina Vaidya	F	FYBSc	Biochem	<i>[Signature]</i>
61	2025120033	Anshu Pasule	F	FYBSc	Biochem	<i>[Signature]</i>
62	2025120033	Hosain Shrivastava	M	FYBSc	Biochem	<i>[Signature]</i>
63	2025120033	Chetan Khande	M	FYBSc	Biochem	<i>[Signature]</i>
64	2025120033	Mohammed Prakashan	M	FYBSc	Biochem	<i>[Signature]</i>
65	2025120033	Pragyanthi Kadam	M	FYBSc	Biochem	<i>[Signature]</i>
66	2025120033	Nikhil R. Vaidya	M	FYBSc	Biochem	<i>[Signature]</i>

VPM's B. N. Bandodkar College of Science (Autonomous), Thane

VPM's B. N. Bandodkar College of Science (Autonomous) Thane
Department of Physics
Activity Attendance

Activity Name: - A Guest lecture (Basics & Applications of Scanning Electron microscopy) - Mrs. Avadhesh Yadav
Organizer: - Physics Department, BT, MB, Micro Biochem.
Date: - 2/8/2025

Sr. No	PRN No	Student Name	M/F	Class	Group	Sign.
1	2025420176	Kashish Kumari	F	Fy-Bsc	Phy	<i>[Signature]</i>
2	2025421430	Bhakti Shinde	F	Fy-Bsc	PMS	<i>[Signature]</i>
3		Maitriya Jagtap	F	FY BSC	MPS	<i>[Signature]</i>
4		Kajal Jaiswar	F	FY-Bsc	PMC	<i>[Signature]</i>
5	2024420121	Vrushali Khatri	F	SJ-Bsc	PBZ	<i>[Signature]</i>
6	2023420143	Ria S. Wadga	F	TY-Micro	Micro	<i>[Signature]</i>
7	2023420140	Nishal P. Yadav	F	TY-Micro	Micro	<i>[Signature]</i>
8	2023420154	Aparna Shukla	F	TY-Micro	Micro	<i>[Signature]</i>
9	2023420210	Pooja K. Kulkarni	F	TY-Micro	Micro	<i>[Signature]</i>
10	2024420374	Dalvi Sara Hasim	F	SY BSC	Biotech	<i>[Signature]</i>
11	2024420350	Khat Falaknaaz A Rauf	F	SY BSC	Biotech	<i>[Signature]</i>
12	2024420381	NISHAGAMDHAN-MORE	F	SY BSC	Biotech	<i>[Signature]</i>
13	2024420095	Priyanka Khetal	F	SY-BSC	Micro	<i>[Signature]</i>
14	2024420277	Sanskriti S. Patil	F	SY BSC	Micro	<i>[Signature]</i>
15	2024420283	Manushi G. Kulkarni	F	SY BSC	Micro	<i>[Signature]</i>
16	2024420368	Hetal Tamboli	F	SY BSC	Biotech	<i>[Signature]</i>
17	2024420369	Kavya Venkateshwar	F	SY BSC	Biotech	<i>[Signature]</i>
18	2024420363	Arya Kulkarni	M	SY BSC	Biotech	<i>[Signature]</i>
19	2024420376	Aman Jangirkar	M	SY BSC	Biotech	<i>[Signature]</i>
20	2024420356	Mandak Shinde	M	SY BSC	Biotech	<i>[Signature]</i>
21	2024420375	Sidhvi Pune	F	SY BSC	Biotech	<i>[Signature]</i>
22	2024420371	Vaibhavi Gore	F	SY BSC	Biotech	<i>[Signature]</i>
23	2024420365	Shreeya Lekhande	F	SY BSC	Biotech	<i>[Signature]</i>
24	2024420373	Siddhi R. Patil	F	SY BSC	Micro	<i>[Signature]</i>
25	2024420375	Sunay yadav	M	SY BSC	Micro	<i>[Signature]</i>
26	2024420290	Dhruvika Valankar	M	SY BSC	Micro	<i>[Signature]</i>
27	2024420274	Habibi Shelawale	F	SY BSC	Micro	<i>[Signature]</i>
28	2024420291	Satvik Jayde	M	SY BSC	Micro	<i>[Signature]</i>

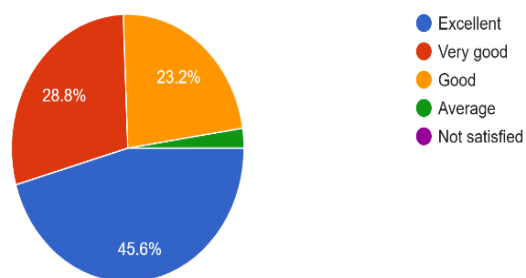
29						
30	2023420057	Jayvi Temankar	F	TY BSC	Biotech	<i>[Signature]</i>
31	2023420042	Akasha Londhe	F	TY BSC	Biotech	<i>[Signature]</i>
32	2023420035	Priya Jadhav	F	TY BSC	Biotech	<i>[Signature]</i>
33	2023420068	Apoorva Borkar	F	TY BSC	Biotech	<i>[Signature]</i>
34	2023420062	Smriti Pawar	F	TY BSC	Micro	<i>[Signature]</i>
35	2023420061	Nandini Bhoir	F	TY BSC	Micro	<i>[Signature]</i>
36	2025420174	Anushka Khet	F	FY BSC	Biotech	<i>[Signature]</i>
37	2025420550	Kalyani Shinde	F	SY BSC	Micro	<i>[Signature]</i>
38	2021420490	Kalyani Shinde	F	SY BSC	Micro	<i>[Signature]</i>
39	2023420326	Siddhika Khan	F	TY BSC	Physics	<i>[Signature]</i>
40	2023420336	Shriya Dhanne	F	TY BSC	Physics	<i>[Signature]</i>
41	2023420338	Manjari Gulbar	F	TY BSC	Physics	<i>[Signature]</i>
42	2025420142	Kamini Khandagale	F	FY BSC	Biotech	<i>[Signature]</i>
43	2025420278	RUMANA SHAH	F	FY BSC	Biotech	<i>[Signature]</i>
44	2025420123	HUNESHA KAZI	F	FY BSC	Biotech	<i>[Signature]</i>
45	2025420124	Surabhi Arp	F	FY BSC	Micro	<i>[Signature]</i>
46		Malati Alup	F	FY BSC	Micro	<i>[Signature]</i>
47	2025420139	Jaya R. Shahadani	F	FY BSC	Biotech	<i>[Signature]</i>
48	2025420128	Maitri A. Bhagwat	F	FY BSC	Biotech	<i>[Signature]</i>
49	2025420059	Tisha A. Kulkar	F	FY BSC	Biotech	<i>[Signature]</i>
50	2023420182	Saboni Nikam	F	TY BSC	Micro	<i>[Signature]</i>
51	2025420072	Taraki Niketa	F	FY BSC	Biotech	<i>[Signature]</i>
52	2025420072	Sagar Vidyashree	F	FY BSC	Biotech	<i>[Signature]</i>
53	2025420247	Khan sabira	F	FY BSC	Biotech	<i>[Signature]</i>
54	2025420135	Chaudhary Ajumia	F	FY BSC	Biotech	<i>[Signature]</i>
55	2023420315	Mose Peatiktha	F	TY BSC	PHYSICS	<i>[Signature]</i>
56	2023420300	Bhagyashree Birajdar	F	TY BSC	PHYSICS	<i>[Signature]</i>
57						

VPM's B. N. Bandodkar College of Science (Autonomous), Thane

Feedback analysis

How clearly were the concept of field microscopy and advanced instrumentation explained?

125 responses



Did the lecture effectively connect theory with practical application in the field?

125 responses

