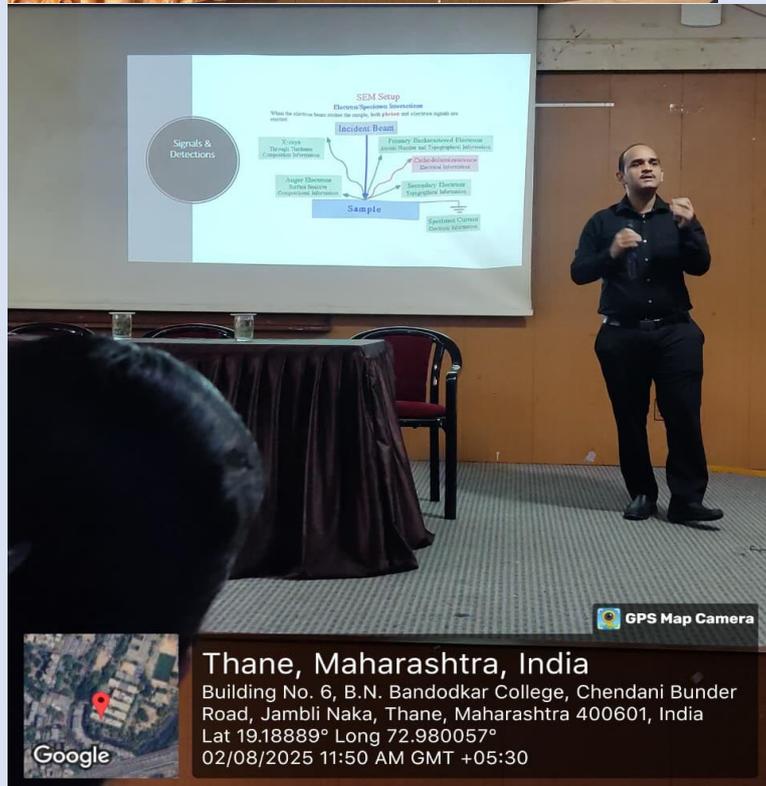


VPM's B.N. Bandodkar College of Science (Autonomous), Thane

| | |
|---|---|
| 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"> ● Enable students to grasp the fundamentals of Scanning Electron Microscopy (SEM). ● Familiarize students with the working mechanism and SEM data interpretation. ● Expose students to SEM's real-world application in biological and material sciences. <p>Encourage exploration of career paths and research prospects in microscopy and imaging sciences.</p> |
| 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. Physics, BT, Microbio. Biochem, Chemistry |
| 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 Teachers participants | M – 04 F - 05 T- 09 |
| Details of Student participants | |
| Outsiders | -- |
| In-house | M- 40 F- 107 T-147 |
| Additional information | -- |
| Name of Co-ordinator | Dr. Sangita Meshram, Dr. Kalpita Mulye, Dr. Jayashree Pawar, Ms. Sayali Daptardar |

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

Geotagged photo



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



Flyer/ Notice

B. N. Bandodkar college of Science (Autonomous)



A Guest lecture on

Unlocking the Microscopic World: Basics and Applications of Scanning Electron Microscopy

by

Mr. Avdhesh 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 Mehsram
HOD Physics

Attendance

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 and Applications of scanning Electron microscopy) - Mr Avdhash Yadav
Organizer: - Physics Department, BT, MB, Biochem.
Date: - 21/08/2025
Faculty & Guest Sign: - Mr. Avdhash Yadav

| Sr. No | Name of Guest & Staff | Designation | Sign. |
|--------|--------------------------|-----------------|-------------|
| 1 | Mrs. Bhatali Suryawansi | Teacher | [Signature] |
| 2 | Mr. Nandkishor S. Sanyal | Asst Professor | [Signature] |
| 3 | Ms. Neha Gupta | Asst. prof. | [Signature] |
| 4 | Mr. Aita F Khan | Asst. Prof. | [Signature] |
| 5 | Dr. B.K. Mandlikar | Asso. professor | [Signature] |
| 6 | Mr. Ashish Kol | Asst. Professor | [Signature] |
| 7 | Mrs. Pooja Jambhale | Asst. Prof. | [Signature] |
| 8 | Dr. S.S. Meshram | Asst. prof | [Signature] |
| 9 | | | |
| 10 | | | |
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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) - Mr. Avdhash Yadav
Organizer: - Physics Department, BT, MB, ~~Micro~~ Biochem.
Date: - 21/8/2025

| Sr. No | PRN No | Student Name | M/F | Class | Group | Sign. |
|--------|------------|-----------------------|-----|----------|---------|-------------|
| 1 | 2025420176 | Kashish Kumari | F | Fy-BSc | Phy | [Signature] |
| 2 | 2025421430 | Bhakti shinde | F | Fy-Bsc | PMS | [Signature] |
| 3 | | Maitriya Jagtap | F | FY BSC | MPS | [Signature] |
| 4 | | Kajal Jaiswar | F | FY-Bsc | PMC | [Signature] |
| 5 | 2024420121 | Vrushali Khotra | F | SJ-BSC | PBZ | [Signature] |
| 6 | 2023420143 | Ria S. Wauda | F | TY-Micro | Micro | [Signature] |
| 7 | 2023420140 | Nishal P. Yadav | F | TY-Micro | Micro | [Signature] |
| 8 | 2023420154 | Aparna Shetye | F | TY-Micro | Micro | [Signature] |
| 9 | 2023420210 | Penugonda Pusuma S. | F | TY-Micro | Micro | [Signature] |
| 10 | 2024420374 | Dalvi Sara Hasim | F | SYBSC | Biotech | [Signature] |
| 11 | 2024420350 | Khot Falaknaaz A.Rauf | F | SYBSC | Biotech | [Signature] |
| 12 | 2024420381 | NISHIGANDHA MORE | F | SYBSC | Biotech | [Signature] |
| 13 | 2024420295 | Priyanka Khela | F | SY-BSC | Micro | [Signature] |
| 14 | 2024420277 | Sangkeethi S. Patil | F | SYBSC | MICED | [Signature] |
| 15 | 2024420293 | Maninee G. Kumbhar | F | SYBSC | Micro | [Signature] |
| 16 | 2024420368 | Hetal Tamboli | F | SYBSC | Biotech | [Signature] |
| 17 | 2024420369 | Kavya Venkateshkar | F | B4 Bsc | Biotech | [Signature] |
| 18 | 2024420363 | Arya Kulkarni | M | SYBSC | Biotech | [Signature] |
| 19 | 2024420376 | Aman Jangirkar | M | SYBSC | Biotech | [Signature] |
| 20 | 2024420356 | Mandak Shinde | M | SYBSC | Biotech | [Signature] |
| 21 | 2024420375 | Siddhi More | F | SYBSC | Biotech | [Signature] |
| 22 | 2024420371 | Nalbhavi Gore | F | SYBSC | Biotech | [Signature] |
| 23 | 2024420365 | Shreyya Lokhande | F | SYBSC | Biotech | [Signature] |
| 24 | 2024420273 | Siddhi S. Patil | F | SYBSC | Micro | [Signature] |
| 25 | 2024420275 | Sunay Yadav | M | SYBSC | Micro | [Signature] |
| 26 | 2024420290 | Danusha Valumbhara | M | SYBSC | Micro | [Signature] |
| 27 | 2024420274 | Hadii Shelawade | F | SYBSC | Micro | [Signature] |
| 28 | 2024420291 | Satish Javde | M | SYBSC | Micro | [Signature] |

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| | | | | | | |
|----|------------|-----------------------|---|--------------|--------------|----------------|
| 29 | 2025120023 | Shaikh Amanat | M | FY BSc BT | Biotech | Amanat |
| 30 | 2025420107 | Indrajit Srinama | M | FY BSc BT | Biotech | Indrajit |
| 31 | 2025420052 | Pavita Anjanekar | M | FY BSc BT | Biotech | Pavita |
| 32 | 2025420087 | Dinkar Dhotimukh | M | FY BSc BT | Biotech | Dinkar |
| 33 | 2025420368 | Shirudh Kale | M | FY BSc BT | Biotech | Shirudh |
| 34 | 2025420348 | Vignesh S. Bajaje | M | FY BSc BT | Biotech | Vignesh |
| 35 | 2025420318 | Sahil Karamde | M | FY BSc BT | Biotech | Sahil |
| 36 | 2025420319 | Sani Saniya Khande | F | FY BSc | Micro | Saniya |
| 37 | | Dipesh D. Chaudhari | M | FY BSc | Micro | Dipesh |
| 38 | 2025420095 | Harshita Late | F | FY BSc | Biotech | Harshita |
| 39 | 2025420541 | Kasturi K. Wadhaw | F | FY BSc | Biotech | Kasturi |
| 40 | 2025420443 | Rex G. Prabhu | M | FY BSc | Biotech | Rex |
| 41 | 2025420134 | Jagruat Dargua | F | FY BSc | Biotech | Jagruat |
| 42 | 2025420097 | Arpita Pradhan | F | FY BSc | Biotech | Arpita |
| 43 | 2025420168 | Drishki Parthekar | F | FY BSc | Micro | Drishki |
| 44 | 2023420382 | Sahil Khande | M | TY BSc | Physics | Sahil |
| 45 | 2023420276 | Ashutosh Shinde | M | TY BSc | Physics | Ashutosh |
| 46 | 2025420061 | Sahil Rajbhaj | M | FY BSc | Biotech | Sahil |
| 47 | 2025420131 | Suraj Y. Yadav | M | FY BSc BT | Biotech | Suraj |
| 48 | 2025402091 | Shriya V. Tokekar | F | FY BSc Micro | Microbiology | Shriya |
| 49 | 2025420043 | Shrinivasa Prakash | F | FY BSc Micro | Microbiology | Shrinivasa |
| 50 | 2025420198 | Heena Shaikh | F | FY BSc Micro | Micro | Heena |
| 51 | 2025420013 | Poojitsha Dhawade | F | FY MB | Micro | Poojitsha |
| 52 | 2024420364 | Chandhama Chand | F | SY BT | Biotech | Chandhama |
| 53 | 2024420030 | Vidhi Karamde | F | SY BSc | Biochem | Vidhi |
| 54 | 2024420034 | Khushi Nisham | F | SY BSc | Biochem | Khushi |
| 55 | 2024420317 | Susmita Yadav | F | SY BSc | Biochem | Susmita |
| 56 | 2025420386 | Nitishi R. Tiwari | M | FY BSc (MB) | Microbiology | Nitishi |
| 57 | 2025420049 | Ashyan S. Gaojar | M | FY BSc (Phy) | Physics | Ashyan |
| 58 | 2025420240 | Paarthivang Suvrasue | M | FY BSc | Microbiology | Paarthivang |
| 59 | 2025421110 | Med. ad. Salvi | M | FY BSc | Physics | Med. ad. Salvi |
| 60 | 2025420266 | Dikshita Vaity | F | FY BSc | Micro | Dikshita |
| 61 | 2025420424 | Asmi Pasute | F | FY BSc | Micro | Asmi |
| 62 | 2025420440 | Hasiom Sharma | M | FY BSc | Chemistry | Hasiom |
| 63 | | Chetan Karamde | M | FY BSc | Chemistry | Chetan |
| 64 | 2025420188 | Alvamaral Pagnaniam | M | FY BSc | Physics | Alvamaral |
| 65 | 2025420114 | Pragnant Kadam | M | FY BSc | Physics | Pragnant |
| 66 | 2023420825 | Nikhil A. Vishwakarma | M | TY BSc | Physics | Nikhil |

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

Activity Name: - A guest lecture on (Basics & Applications of Scanning Electron microscopy) - Mr. Anandhesh Yadav

Organizer: - Physics Department (BT/MB/Biochem)

Date: - 21/8/2025

| Sr. No | PRN No | Student Name | M/F | Class | Group | Sign. |
|--------|------------|---------------------|-----|--------|---------|-----------|
| 1 | 2023420288 | Radnyee Parab | F | TY BSc | PCB | Parab |
| 2 | 2023420312 | Anushka Mali | F | TY BSc | PCM | Mali |
| 3 | 2023420346 | Rasturi Kadam | F | TY BSc | PTIS | Rasturi |
| 4 | 2023420348 | Janhavi Patil | F | TY BSc | PZB | Patil |
| 5 | 2023420172 | Yagya Bhandari | F | TY BCh | Biochem | Yagya |
| 6 | 2023420176 | Poojitsha Pertuse | F | TY BCh | Biochem | Poojitsha |
| 7 | 2023420157 | Karti Nautiyal | F | TY BSc | Biochem | Karti |
| 8 | 2024420276 | Shabnam Raja Shaikh | F | SY BSc | Micro | Shabnam |
| 9 | 2024420280 | Zoraya Farooqui | F | SY BSc | Micro | Zoraya |
| 10 | 2024420288 | Saniya Manojga | F | SY BSc | Micro | Saniya |
| 11 | 2024420289 | Khan Mariyam Riyaz | F | SY BSc | Micro | Khan |
| 12 | 2023420193 | Shweta Sawant | F | TY BSc | Biochem | Shweta |
| 13 | | Shaikh Sumaira | F | FY BSc | Biotech | Sumaira |
| 14 | 2023420183 | Sakshi Gawade | F | TY BSc | Biochem | Sakshi |
| 15 | 2023420157 | Nishtha Desai | F | TY BSc | Biochem | Nishtha |
| 16 | 2023420163 | Sneha Shinde | F | TY BSc | Biochem | Sneha |
| 17 | 2023420160 | Shreeya Shaikh | F | TY BSc | Biochem | Shreeya |
| 18 | 2023420169 | Neha Khan | F | TY BSc | Biochem | Neha |
| 19 | 2023420166 | madhavi yende | F | TY BSc | Biochem | madhavi |
| 20 | 2023420158 | Anshu Shinde | F | TY BSc | Biochem | Anshu |
| 21 | 2023420170 | Shruti Patil | F | TY BSc | Biochem | Shruti |
| 22 | 2023420173 | Shelali Sawant | F | TY BSc | Biochem | Shelali |
| 23 | 2025420149 | Tripathi Nikita | F | FY BSc | Biotech | Tripathi |
| 24 | 2025420072 | Sagar Vishwakarma | F | FY BSc | Biotech | Sagar |
| 25 | 2025420247 | Khan sabira | F | FY BSc | Biotech | Khan |
| 26 | 2025420135 | Chaudhary Ajunna | F | FY BSc | Biotech | Chaudhary |
| 27 | 2023420129 | Bonamane Chaitanya | F | SY BSc | Micro | Bonamane |

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 on (Basic & Unlocking the microscopy)
Mr. Anandesh Yadav

Organizer: - Physics Department; BT, MB, Biochem

Date: - 2/08/25

| Sr. No | PRN No | Student Name | M/F | Class | Group | Sign. |
|--------|------------|----------------------|-----|-------|-----------|-------------|
| 1 | 2024420132 | Rudra Rai | M | SYBSC | PMB | Rudra |
| 2 | 2024420129 | Anshu S. Bhagde | M | SYBSC | PCM | Anshu |
| 3 | 2024420144 | Yash. G. Sonar | M | SYBSC | PMB | Yash |
| 4 | 2024420293 | Yashu Saramsanjay | F | SYBSC | Micro | Saramsanjay |
| 5 | 2024420312 | Venna Jadhav | F | SYBSC | Biochem | Venna |
| 6 | 2024420325 | Dhanashree Ahire | F | SYBSC | Biochem | Dhanashree |
| 7 | 2024420319 | Annu madhwal | F | SYBSC | Biochem | Annu |
| 8 | 2024420123 | Rudra ferduskar | M | SYBSC | PCM | Rudra |
| 9 | 2024420124 | Neesha Verma | M | SYBSC | PCB | Neesha |
| 10 | 2024420146 | Tanuj Girwade | M | SYBSC | PCB | Tanuj |
| 11 | 2024420127 | Ashish Kumar | M | SYBSC | PCB | Ashish |
| 12 | 2024420315 | Simona Chaulkar | F | SYBSC | BC | Simona |
| 13 | 2024420323 | Shreya Rajasi | F | SYBSC | BC | Shreya |
| 14 | 2024420327 | Pradnya Kulkarni | F | SYBSC | BC | Pradnya |
| 15 | 2024420309 | Hiba Alvi | F | SYBSC | BC | Hiba |
| 16 | 2024420308 | Shruti chavan | F | SYBSC | BC | Shruti |
| 17 | 2025420306 | Pragya D. Dubey | F | TYBSC | Chemistry | Pragya |
| 18 | - | Archal. D. Dubey | F | SYBSC | Physics | Archal |
| 19 | - | Vinay V. Marchant | M | SYBSC | physics | Vinay |
| 20 | - | Shikha Chauhan | M | SYBSC | physics | Shikha |
| 21 | - | Gabriel S. Khan | M | SYBSC | physics | Gabriel |
| 22 | - | August Singh | M | SYBSC | physics | August |
| 23 | - | Kaishree Kumari | M | SYBSC | physics | Kaishree |
| 24 | 2024420140 | Anuja khunam | F | SYBSC | physics | Anuja |
| 25 | 2024420139 | Nimisha K. Patil | F | SYBSC | physics | Nimisha |
| 26 | 2024420130 | Deviyani Girwade | F | SYBSC | physics | Deviyani |
| 27 | 2023420192 | Janhavi yadav | F | TYBSC | Biochem | Janhavi |
| 28 | 2023420201 | Yashvi Singh | F | TYBSC | Biochem | Yashvi |
| 29 | 2023420057 | Tanvi Tavankar | F | TYBSC | Biotech | Tanvi |
| 30 | 2023420042 | Akasha Londhe | F | TYBSC | Biotech | Akasha |
| 31 | 2023420035 | Priga Jadhav | F | TYBSC | Biotech | Priga |
| 32 | 2023420068 | Aparna. Borke | F | TYBSC | Biotech | Aparna |
| 33 | 2023420062 | Rushmi Pawar | F | TYBSC | Biotech | Rushmi |
| 34 | 2025420061 | Nandini Bhoir | F | TYBSC | Micro | Nandini |
| 35 | 2025420174 | Anushka Khat | F | TYBSC | Micro | Anushka |
| 36 | 2025420530 | Yashita Yenkure | F | FYBSC | Biotech | Yashita |
| 37 | 2021420490 | Kalyani Ghinde | F | SYBSC | Micro | Kalyani |
| 38 | 2023420326 | Siddiga Khan | F | TYBSC | Physics | Siddiga |
| 39 | 2023420336 | Shriya Dharne | F | TYBSC | Physics | Shriya |
| 40 | 2023420338 | Manjima Gulbar | F | TYBSC | Physics | Manjima |
| 41 | 2025420142 | Kamini Khandagale | F | FYBSC | Biotech | Kamini |
| 42 | 2025420278 | RUMANA SHAH | F | FYBSC | BIOTECH | Rumana |
| 43 | 2025420123 | HUNESHA KAZI | F | FYBSC | BIOTECH | Hunesha |
| 44 | 2025420129 | Surabhi Apté | F | FYBSC | Micro | Surabhi |
| 45 | - | Malati Alwe | F | FYBSC | Micro | Malati |
| 46 | 2025420139 | Jaya R. Shahdadi | F | FYBSC | Biotech | Jaya |
| 47 | 2025420128 | Maitani A. Bhagwat | F | FYBSC | Biotech | Maitani |
| 48 | 2025420089 | Isha A. Kulkar | F | FYBSC | Biotech | Isha |
| 49 | 2023420152 | Satoni Nikam | F | TYBSC | Micro | Satoni |
| 50 | 2025420148 | Tripatki Niketa | F | FYBSC | Biotech | Tripatki |
| 51 | 2025420072 | Sagar Vidyaashree | F | FYBSC | Biotech | Sagar |
| 52 | 2025420247 | Khan sabira | F | FYBSC | Biotech | Khan |
| 53 | 2025420135 | Chaudhary Ajumisa | F | FYBSC | Biotech | Ajumisa |
| 54 | 2025420315 | Mose Pratiksha | F | TYBSC | PHYSICS | Mose |
| 55 | 2023420300 | Bhagyashree Birajdar | F | TYBSC | PHYSICS | Bhagyashree |
| 56 | | | | | | |
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VPM's B.N. Bandodkar College of Science (Autonomous), Thane

Activity Attendance

Activity Name: - Space Explorer competition.

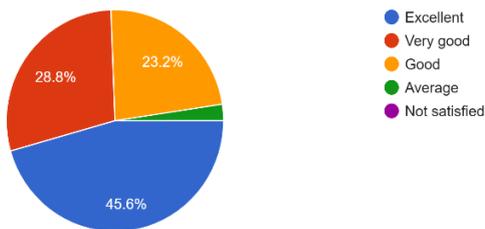
Organizer: - physics department

Date: - 09/09/2025

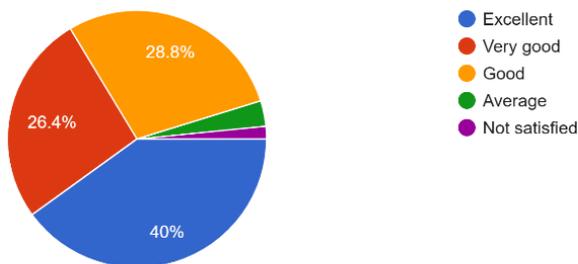
| Sr. No | PRN No | Student Name | M/F | Class | Group | Sign. |
|--------|------------|---------------------|-----|-------|-------|-------------|
| 1 | 2024420129 | Ankay S. Adegade | M | SYBSc | PCM | [Signature] |
| 2 | 2023430008 | Bhoomi Sharma | F | TYBSc | IT | [Signature] |
| 3 | 2024420132 | Rudra Koi | M | SYBSc | PMB | [Signature] |
| 4 | 2024420156 | Pandey Nishant | M | SYBSc | PMC | [Signature] |
| 5 | 2023420326 | Siddiga Khan | F | TYBSc | PM | [Signature] |
| 6 | 2023420338 | Mariyam Gulbar | F | TYBSc | PM | [Signature] |
| 7 | 2024420140 | Anuja Khundam | F | SYBSc | PMS | [Signature] |
| 8 | 2024420145 | Tarvi Sonawane | F | SYBSc | PSC | [Signature] |
| 9 | 2024420130 | Upasana Gurada | F | SYBSc | PCM | [Signature] |
| 10 | 2023420931 | Shaikh Saba | F | TYBSc | PM | [Signature] |
| 11 | 2025420188 | Anensamuel Raghavan | M | FYBSc | PMC | [Signature] |
| 12 | 2025420255 | Bhakti Datta Shinde | F | FYBSc | PMS | [Signature] |
| 13 | 2025420176 | Katish Kumari | F | FYBSc | PM3 | [Signature] |
| 14 | 2024420121 | Vrushali | F | SYBSc | PBZ | [Signature] |
| 15 | 201400137 | Nimi Kispota | F | SYBSc | PMS | [Signature] |
| 16 | 2024420141 | Bhumi Chauhan | F | SYBSc | PMS | [Signature] |
| 17 | 2025420527 | Siddhi R. Salunke | F | FYBSc | CM P | [Signature] |
| 18 | 2024420581 | Pooja B. Jaiswal | F | SYBSc | CBZ | [Signature] |
| 19 | 2025420447 | Shreya Chaudhary | F | FYBSc | PMS | [Signature] |
| 20 | 2025420604 | Kajal M. Jaiswal | F | FYBSc | PMC | [Signature] |
| 21 | 2025420699 | Abhay M. Bhanage | M | FYBSc | PMS | [Signature] |
| 22 | 2025420592 | Parshottam Sutar | M | FYBSc | PMS | [Signature] |
| 23 | 2025420465 | Santosh Chopade | M | FYBSc | PMS | [Signature] |
| 24 | 2024420228 | Bhumi S. Mhatre | F | SYBSc | CS | [Signature] |
| 25 | 2024420126 | Sanika Chauhan | F | SYBSc | PMB | [Signature] |
| 26 | 2023420288 | Rudra Patil | F | TYBSc | PC | [Signature] |
| 27 | 2023420336 | Shriya Dhanu | F | TYBSc | PM | [Signature] |
| 28 | 2023420334 | Vedant Wagh | M | TYBSc | PM | [Signature] |

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



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