

EXPLORING CELLS AND BIOLOGICAL STRUCTURES

An Interactive Workshop

DATE: 28 – 30 October 2026 **VENUE:** BSBE, IIT Bombay

Note: Participants will be divided into groups of 7–8 and will rotate through the assigned facilities as per the group schedule.

DAY 1 – INTRODUCTION, DEMONSTRATION & INTERACTIVE SESSIONS

TIME	EXPERIMENT / DEMONSTRATION	DETAILED ACTIVITIES / CONCEPTS COVERED
9:00 - 9:45 am	Registration & Breakfast	Registration, participant briefing and batch allocation.
10:00 - 10:30 am	Technical Talk – FACS	Introduction to flow cytometry and overview of practical applications.
10:30 - 11:00 am	Technical Talk – 3D Lithography & LFC	Overview of 3D lithography and light-field imaging capabilities.
11:00 - 11:30 am	Technical Talk – AFM	Principles, imaging modes and applications of atomic force microscopy.
11:30 am - 12:00 pm	Technical Talk – SRM	Overview of super-resolution imaging approaches and applications.
12:00 - 1:00 pm	Technical Talk – LSM & Spinning Disk	Confocal and spinning-disk principles, capabilities and applications.
1:00 - 2:00 pm	Lunch	Lunch break.
2:15 - 3:45 pm	Demonstration & Interactive Sessions	Batch-wise demonstrations across FACS, AFM, LSM, SD, SRM, 3D Lithography and LFC.
3:45 - 4:00 pm	Hi-Tea	Refreshment break.
4:00 - 5:30 pm	Demonstration & Interactive Sessions	Continuation of batch-wise facility rotations and interactive demonstrations.

DAY 2 – DEMONSTRATION & INTERACTIVE SESSIONS

TIME	EXPERIMENT / DEMONSTRATION	DETAILED ACTIVITIES / CONCEPTS COVERED
9:15 - 9:45 am	Breakfast	Breakfast.
10:00 - 11:30 am	Demonstration & Interactive Sessions	Batch-wise rotations across FACS, AFM, LSM, SD, SRM, 3D Lithography and LFC.
11:30 am - 1:00 pm	Demonstration & Interactive Sessions	Continuation of morning facility rotations with instrument demonstrations and participant interaction.
1:00 - 2:00 pm	Lunch	Lunch break.
2:15 - 3:45 pm	Demonstration & Interactive Sessions	Continuation of batch-wise demonstrations and instrument-based learning.
3:45 - 4:00 pm	Hi-Tea	Refreshment break.
4:00 - 5:30 pm	Demonstration & Interactive Sessions	Final rotation of the day across the assigned facilities.

DAY 3 – ANALYSIS, FEEDBACK & WORKSHOP CLOSURE

TIME	EXPERIMENT / DEMONSTRATION	DETAILED ACTIVITIES / CONCEPTS COVERED
9:15 - 9:45 am	Breakfast	Breakfast.
10:00 - 11:30 am	Demonstration & Interactive Sessions	Completion of batch-wise rotations across the assigned facilities.
11:30 am - 1:00 pm	Interactive Data Analysis Sessions	Batch-wise analysis sessions; participants divided into analysis batches.
1:00 - 2:00 pm	Lunch	Lunch break.
2:15 - 3:45 pm	Interactive Data Analysis Sessions	Interpretation and analysis of acquired data in assigned batches.
3:45 - 4:45 pm	Industry Oriented Discussion Panel Session	Industry-focused discussion, expert insights, industry practices, and future opportunities.
4:45 - 5:00 pm	Hi-Tea	Refreshment break.
5:00 - 5:30 pm	Participant Feedback Session	Interactive discussion, participant feedback and workshop experience sharing.
5:30 - 6:00 pm	Certificate Distribution & Workshop Closure	Certificate distribution, acknowledgements and closing remarks.