



## ST. XAVIER'S COLLEGE, MAPUSA GOA

College with Potential for Excellence  
 Re accredited by NAAC with A Grade  
 Awarded DBT STAR College Scheme

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| <b>Nature of Event</b><br>(Workshop, Guest Lecture, Add-on Course, Seminar, etc.) | Outstation student academic trip  |
| <b>Name of Department</b>   | Microbiology  |
| <b>Faculty In-charge</b>  | Mr. Siddhesh Menon, Dr. Trelita de Sousa, Ms. Anita Parsekar  |
| <b>Stratum of Event</b><br>(College, State, Regional, National)                   | College   |
| <b>Title of Event</b>   | Outstation academic trip to Pune  |
| <b>Date of the Event</b>  | 29 <sup>th</sup> October to 2 <sup>nd</sup> November, 2022  |
| <b>Venue</b>  | <ul style="list-style-type: none"> <li>• BioEra, Pune</li> <li>• Savitribai Phule Pune University, Pune</li> <li>• Vasantdada Sugar Institute, Pune</li> <li>• The National Centre for Microbial Resource (NCMR), Pune</li> </ul>   |
| <b>Resource Person details</b>  | <ul style="list-style-type: none"> <li>• Mr. Ketan Sharma (General Manager), Mr. Hemal Makani (Products specialist), BioEra, Pune</li> <li>• Dr. Karishma Pardesi, Head, Department of Microbiology, Savitribai Phule Pune University, Pune</li> <li>• Ms. Sudha Ghodke, Head, Agriculture Division, Mr. Bibhishan Mali, Scientific Officer-In-Charge, Vasantdada Sugar Institute, Pune</li> <li>• Dr. Amaraja Joshi, Researcher, The National Centre for Microbial Resource (NCMR), Pune</li> </ul>  |
| <b>Objective/ Scope of Event</b>  | To visit significant academic, research, and industrial organizations in Pune   |
| <b>Particulars of Event</b>   | At BioEra Life Sciences Pvt. Ltd., the students visited the research, technical, training, and design facilities of the plant and received firsthand information on the working of various instruments including the autoclave, plant tissue culture workstation, spectrophotometer (android), and distillation unit, PCR, heat lid, potable incubator, gel documentation, potable air flow, refrigerated centrifuge, programable centrifuge, weighing balance, analytical and precision-wise balance, glassware washer, micropipettes and design equipment including laser engraver (15-20 mm of acrylic), manual stapler, automatic stapler, hydraulic paper cutter, and laminator. |

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|                                  | <p>At Savitribai Phule Pune University, the students had the opportunity to interact with the faculty and students, tour the laboratory facilities available at the University, and learn about the working of various state-of-the-art instruments, including HPLC, GC, Gel-Doc system, fermenters, high speed refrigerated centrifuges, fluorescence microscope, lyophilizer, laminar air flow stations, cold room and high-temperature walk-in incubators, autoclave rooms, PCR thermocycler, tensiometer, and electrophoresis facilities.</p> <p>At the Vasantdada Sugar Institute (VSI), the students learned about the various liquid biofertilizers produced at the institute, the methods employed to enhance plant growth via tissue culture in comparison to traditional approaches, the role of microorganisms in the various processes, and the means of obtaining the best yields, and toured the instrumentation laboratory which housed advanced instruments, including HPLC and Gas Chromatography. The students were also shown the fermentation laboratory, the Pilot winery and nano-brewery.</p> <p>At The National Centre for Microbial Resource (NCMR). NCMR, the students were given a tour of the research laboratories, including the fungal culture laboratory, the Phototrophic Laboratory, the culture preservation centre, and the impressive sequencing facility dedicated to the detection and identification of microorganisms.</p> |
| <b>Outcome of Event</b>          | The visit was an intellectually stimulating experience for both the students and faculty and opened new avenues for further study and research.   |
| <b>Feedback</b>                  | Very enriching and fun-filled learning experience   |
| <b>Total No. of Participants</b> | 34  |

**Photographs**

