

LITTLE FLOWER DEGREE & PG COLLEGE
UPPAL, HYDERABAD-500039

The Department of Microbiology organised a field trip for undergraduate students of I, II, and III years of B.Sc. Lifesciences to Varsha Bioscience and Technology India Pvt. Ltd., Choutuppal, Hyderabad, on 12 August, 2023, at 11:00 AM. Two faculty members, Dr. J. Usha Rani and Ms. Rama Devi accompanied the students. This visit was mainly focused on understanding the procedures involved in the production unit technology of biopesticides and biofertilizers. Students were split into two groups. Dr. Jagan and Dr. Shivraj, the production managers, explained about the facilities available inside the industry, their methods of culturing bacteria and fungi, the production unit, the equipment and culture media used for growth, and the storage and maintenance of labs, R&D unit.

OUTCOME OF THE VISIT:

- Students were able to see and learn about the technology, equipment, fermenters, lyophilizers, and spray dryers used for the cultivation and storage of microorganisms.
- The various processes involved in cultivation, fermentation, production, tissue culture, and storage of cultures were explained.
- A discussion on the difficulties, contamination, and possible solutions to overcome these difficulties was held.



Photograph of students with Dr. Shivraj showing the autoclave



Dr. Shivraj showing the culture media to the students



Dr. Shivraj explaining to students about inoculum preparation



Dr. Shivraj showing the process and mechanism of the fermentors



Dr. Shivraj displaying all the chemicals and materials required for their laboratory work.



Group photograph with Dr. Shivraj, Dr. Jagan along with all the students and faculty