



**ST. XAVIER'S COLLEGE, MAPUSA-  
GOA**

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<b>Nature of Event</b> ( Workshop, Guest Lecture, Add on Course, Seminar, etc.)	Outreach Activity for HSS (Biology) students
<b>Name of Department</b>	Microbiology
<b>Faculty In charge</b>	Ms Ruella D'souza
<b>Stratum of Event</b> (College,State, Regional, National)	State
<b>Title of Event</b>	"Explore and Understand the World of Microbiology"
<b>Date of Event</b>	1 <sup>st</sup> July 2022
<b>Venue</b>	Department of Microbiology Laboratory
<b>Resource Person details</b>	Ms Nadine de Souza- Asst. Professor; Dept. of Microbiology Ms Marilyn Fernandes- Asst. Professor; Dept. of Microbiology Dr. Valerie Gonsalves- Asst. Professor; Dept. of Microbiology
<b>Objective/Scope of Event</b>	To provide greater insight to students into the microbiological world around them. To provide basics of preparation of microbiological media, autoclaving/ sterilization of the same and basic apparatus used in the laboratory; To facilitate first-hand the understanding and handling of microbes for antibiotic sensitivity testing
<b>Particulars of Event</b>	The day began at 9:30 a.m with the registration, a short prayer and welcome by the coordinator. This was followed by a 15 minute introductory presentation to the magnificent and intriguing world of Microbiology. Students were provided with colorful handouts compiled with relevant information on each of the 3 sessions for the day, complete with diagrams and space for note taking.  <b>Session 1 on Agarose Gel Electrophoresis</b> was conducted by Ms Nadine. The students got to know the theory and principle of DNA electrophoresis, observe the preparation and casting of an agarose submarine gel and each student in turn loaded the samples of DNA into the wells. The students were taught the principle and working of the micropipette and got to handle and practice using the same, at their own pace.

	<p><b>In Session 2</b> the participants got to observe various types of media, both solid and liquid, in tubes and in plates, basic and differential media and the various indicators used along with their corresponding colors and respective color changes seen. The students got a chance to practice handling a nicrome loop. Ms Marilyn also introduced them to the Binocular light microscope and the Trinocular microscope and their use.</p> <p><b>Session 3, on Bioassays.</b> was handled by Dr Valerie and each participant handled petriplates and attempted to carry out the disk placement and well punching technique.</p> <p>The final half hour of the workshop was engaged in viewing Scientific Posters presented by Students of S.Y.B.Sc. on their mini-research projects.</p>
<b>Outcome of Event</b>	Students were fascinated by the various techniques and equipment used in the field of microbiology and were curious to pursue further studies in the discipline. They appreciated the opportunity to handle the glassware and pipetteman and promised to apply their learning's about antibiotic resistance to their daily life
<b>Feedback</b>	The event was deeply appreciated by the students and accompanying teachers.
<b>Total No. of Participants</b>	A total of 15 students from 5 HSS's attended the workshop.

**Photograph**



