



ST. XAVIER'S COLLEGE, MAPUSA GOA

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

Nature of Event (Workshop, Guest Lecture, Add on Course, Seminar, etc.)	Career Guidance Session
Name of Department	Chemistry
Faculty Incharge	Ms. Janesline Fernandes Ms. Sheryl D' Cruz
Stratum of Event (College, State, Regional, National)	State Level
Title of Event	Career Guidance Session on 'Ocean Biogeochemistry'
Date of Event	12 th March 2022
Venue	Online mode over Google Meet
Resource Person details	Dr. Suhas S. Shetye, Senior Scientist, National Institute of Oceanography (NIO), Dona Paula.
Objective/ Scope of Event	The objective of this session is to create awareness amongst teaching, non-teaching staff and students about what happens in the ocean, and also to educate the student community about the avenues open for them to pursue their goals.
Particulars of Event	Dr. Suhas spoke about his career experience, each of his innovative, inspiring word definitely motivating each one of the participants. He highlighted the main research activities of NIO. The work done and the procedures adopted to carry out ocean research was captivating. It was interesting to know about all the major problems in the ocean which arise by things we would consider small, like change in pH and change in temperature, leading to ocean deoxygenation leading to several marine life getting affected. He shared how he has created future pH conditions artificially in his laboratory. The work carried out involving aquatic life forms was mesmerising. The different sea vessels they venture into for their expeditions, the living conditions endured, was listed by Dr. Suhas. On being requested to throw some light on the difficulties faced aboard, Dr. Suhas replied that it's the temperature difference, adding that the cruise members undergo rigorous training before setting out into the sea. He said that it's a blessing to have a job one can enjoy, stating that he has the liberty to experiment what he wants to and that he dares to thread the untrodden path.

Outcome of Event	The students got an insight into the activities carried out at NIO. They were also exposed to Marine Science as a Career alternative.
Feedback	The students were fascinated by the session which introduced them to the exciting oceanic world.
Total No. of Participants	58

Photographs

Acidification experiments: Sea urchin egg fertilization

Chemically inducing **female** Sea urchin to release **eggs**



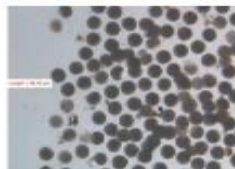
Chemically inducing **male** Sea urchin to release **sperms**



Female Sea urchin releasing **eggs**



Sea urchin **eggs**



Sea urchin **larvae**

