



**DCT'S DHEMPE COLLEGE OF ARTS AND SCIENCE  
MIRAMAR GOA**

**DEPARTMENT OF BIOTECHNOLOGY**

**REPORT ON BIOSPECTRUM LECTURE SERIES ORGANISED BY THE  
DEPARTMENT OF BIOTECHNOLOGY**

The lecture series entitled "Biospectrum" organised by the Department of Biotechnology for the students and faculty members of Dhempe College of Arts and Science students and faculty members. The details about the talk and the lecture series were scheduled from 12<sup>th</sup> to 15<sup>th</sup> February 2024 in the college premises (S.V. Hall) as per the following schedule:

- 13th February 2024 - Dr. Suhas Shetye (Senior Scientist at CSIR-National Institute of Oceanography) - 2:00 pm to 3:00 pm.
- 14th February 2024 - Dr. Meghnath Prabhu (Assistant Professor at Goa University) - 2:00 pm to 3:00 pm.
- 15th February 2024 - Dr. Ravidas Naik (Project Scientist III at National Centre for Polar and Ocean Research (NCPOR) - 2:00 pm to 3:00 pm.

The Biospectrum lecture series organized by the Department of Biotechnology at Dhempe College of Arts and Science aimed to provide students and faculty members with insights into various aspects of marine biology, climate change, and sustainable development. The series spanned from 12th to 15th February 2024 and featured distinguished speakers from different research institutions.

**1. 13th February 2024 - Dr. Suhas Shetye**

Dr. Suhas Shetye, a Senior Scientist at CSIR-National Institute of Oceanography, delivered the first lecture on the topic of "Climate change and the role of oceans." He shared his expertise in oceanography and highlighted the crucial role of oceans in climate regulation. Dr. Shetye discussed different sampling techniques used in oceanic research and shared insights from his expeditions to the Southern Ocean. He emphasized the challenges faced in studying oceans and encouraged students to pursue research with curiosity and passion.

**2. 14th February 2024 - Dr. Meghnath Prabhu**

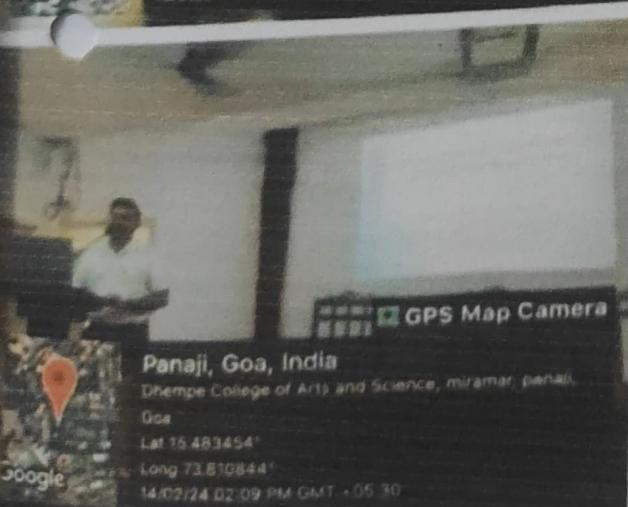
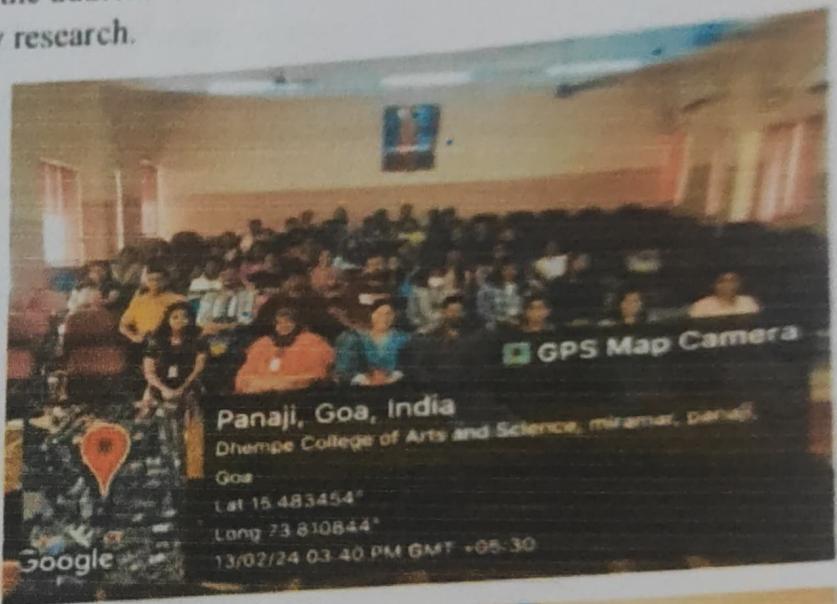
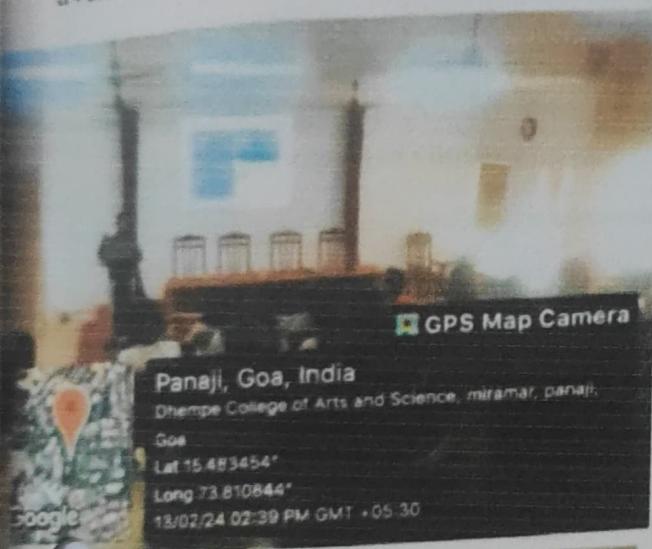
The second lecture was delivered by Dr. Meghnath Prabhu, an Assistant Professor at Goa University, on "Green Seaweed Biorefinery for Sustainable Development." Dr. Prabhu introduced the audience to the diverse world of seaweeds and discussed their potential applications in sustainable development. He elaborated on the use of seaweeds in starch production, sustainable drinking water solutions, and packaging for food and clothing. Dr.

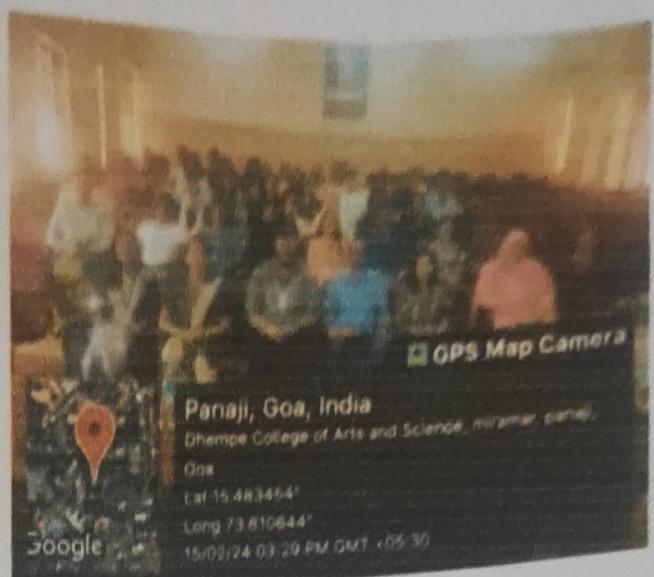
Prabhn's presentation shed light on the innovative ways in which seaweeds can contribute to environmental conservation and resource management.

### 3. 15th February 2024 – Dr. Ravidas Naik

The final lecture of the series was delivered by Dr. Ravidas Naik, a Project Scientist III at the National Centre for Polar and Ocean Research (NCPOR), on "Our oceanic life partners and their role in global climate." Dr. Naik shared his experiences from expeditions to Antarctica and highlighted the importance of phytoplankton in global climate regulation. He emphasized the symbiotic relationship between humans and marine organisms, particularly phytoplankton, which contribute significantly to oxygen production. Dr. Naik concluded by inspiring students to pursue research in marine biology and provided insights into available fellowships and opportunities in the field.

Overall, the Biospectrum lecture series provided an enriching experience for students and faculty members, offering valuable insights into the role of oceans in climate change, sustainable development, and global ecosystems. The speakers' expertise and passion for their respective fields left a lasting impression on the audience, motivating them to explore further avenues in marine biology and biotechnology research.





### Outcomes of the Biospectrum Lecture Series:

#### 1. Enhanced Understanding of Marine Biology and Climate Change

The lecture series deepened students' and faculty members' understanding of marine biology and its interconnectedness with climate change. Through expert insights and discussions, attendees gained a comprehensive understanding of the role oceans play in regulating climate patterns and the impact of climate change on marine ecosystems.

#### 2. Promotion of Sustainable Development Practices

Dr. Meghnath Prabhu's lecture on "Green Seaweed Biorefinery for Sustainable Development" highlighted innovative approaches to utilizing seaweeds for sustainable practices. Attendees learned about the potential applications of seaweeds in various industries, such as food packaging and water purification, contributing to sustainable development goals.

#### 3. Inspiration for Research and Career Paths

The lectures provided attendees with valuable insights into research opportunities and career paths in marine biology and biotechnology. Dr. Suhas Shetye, Dr. Meghnath Prabhu, and Dr. Ravidas Naik shared their experiences and encouraged students to pursue research with curiosity and passion, inspiring them to explore further avenues in these fields.

#### 4. Networking and Collaboration Opportunities

The Biospectrum lecture series served as a platform for networking and collaboration among students, faculty members, and renowned experts in the field of marine biology and biotechnology. Attendees had the opportunity to interact with the speakers, exchange ideas, and potentially forge connections for future research collaborations or academic pursuits.

#### 5. Awareness of Available Resources and Fellowships

Dr. Ravidas Naik's lecture provided attendees with insights into available fellowships and opportunities in the field of marine biology. This information empowered students to explore funding options and pursue research endeavors in marine science, fostering a culture of academic and scientific excellence within the institution.

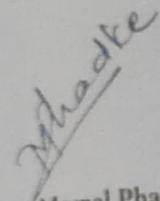
#### b. Long-lasting Impact on Environmental Consciousness

The Biospectrum lecture series left a lasting impact on attendees, fostering a deeper appreciation for the importance of ocean conservation and environmental sustainability. Through engaging presentations and discussions, participants were motivated to adopt more environmentally conscious practices and contribute towards preserving marine ecosystems for future generations.

Total Beneficiaries for Day 1 - 44 students and 06 faculty members (males - 08 & females - 42)

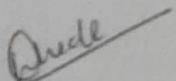
Total Beneficiaries for Day 2 - 51 students and 04 faculty members (males - 12 & females - 43)

Total Beneficiaries for Day 3 - 42 students and 05 faculty members (males - 11 & females - 36)



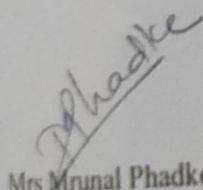
Mrs Mrunal Phadke

Event Coordinator



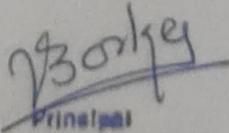
Dr. Niyati Pandurang Hede

Event Coordinator



Mrs Mrunal Phadke

Department In charge



Principal

**Bhempta Charities Trust**  
**Bhempta College of Arts & Science**