



Goa@60 Celebration — Margao; 10 Point Heritage Walk

Margao; 10 Point Heritage Walk was organized by the Geography Department for the students to know and understand the importance of heritage of Margao. The walk was organized on 18th December 2021. The Students of Geography participated in the walk along with the faculty members of the department. Prof. Nandkumar N. Sawant & Mr. Adrian Ferro, research scholar as the resource person for the walk briefed about the evolution of pre Portuguese and Portuguese tangible heritage. (Cond. To pg no. 3)



Resource Persons

1. Professor Nandkumar Sawant, Head department of geography, along with Andrew Barreto, Assistant Professor, Department of English conducted Faculty Development Programme for V M Salgaocar International Institute of Hospitality Management, Raia on **Using Bloom's In Teaching - Learning Pedgaogies** on 1st December, 2021.

2. Professor Nandkumar Sawant, Head department of geography, was the resource person for the Faculty Induction Programme conducted by the UGC- HRD, University of Himachal Pradesh. On 13th December 2021. He spoke on the topic **OBE and Curriculum Designing.**

Geo Tours: Cultural landscape between Goa and Madikeri:

Study tour was conducted by GLOBE in association with Geo-Tours for the students of Geography from 26th December to 30th December 2021. 3 Teachers and 11 students from the department were a part of this study tour. The tour was initiated to put have understanding about cultural diversities and livelihood practices. Madikeri-Coorg being the hill station students was able to experience the different climatic condition beside Goa's climate. Various terrestrial biodiversity was experienced and dominance of coffee plantation in the area was also studied in the study tour. Heritage was also Highlighted of the Madikeri town which enabled the evolution of Madikeri from ancient times.

INSIDE.....

Editorial ————— Pg 2

Geographical Facts ————— Pg 2

Events to watch out ————— Pg 3



EDITORIAL

De-vegetation on land surface temperature

The Earth's climate has warmed by around 0.6 degrees Celsius over the last century, with two big phases of warming between 1910 and 1945, and from 1976 onwards. Land Surface Temperature is an important parameter in land surface processes because it serves as an indicator of climate change. Vegetation may be recognized from most other materials using remote sensing data due to its noticeable absorption in the red and blue regions of the visible spectrum, increased green reflectance, and, most importantly, it's very strong reflectance in the near-IR.

Vegetation cover is important for microscopic environmental change. The area which is lacking vegetation cover witnesses relatively higher land surface temperature. The land surface temperature in Goa has changed dramatically over the last three decades.

The highest temperature observed in 1991 was 38.15 °C, while the lowest being 20.60° C whereas, for the year 2021, the maximum temperature observed is 40.50 °C and the minimum is 27.30 °C. A shift of 2.35 °C at the higher end and 6.69 °C at the lower end due to de-vegetation over time as a result of the increase in tourism, commercialization, urbanization, and industrialization.

Mr. Venkatesh Prabhugaonkar, Assistant Professor in Geoinformatics

Awesome Geography Facts

The reason of its unique color is still a topic that is not fully understood by scientists, although most suspect it has to do with the presence of the *Dunaliella salina* microalgae.

The *Dunaliella* produces carotenoids, a pigment found in carrots as well. But the presence of halophilic bacteria in the salt crusts could be another explanation. A reaction between the salt and the sodium bicarbonate that is found in the water may cause it as well. The Hillier Lake was first discovered in 1802 by navigator and cartographer Matthew Flinders who took samples from the lake and mentioned its existence in his journal.

The lake is located on Middle Island, off the coast of Western Australia. As noted above, the Hillier Lake is quite small, its length is 600 meters and its width is no more than 250 meters. It is surrounded by eucalyptus and paperback trees and the ocean on its northern part.



The Hillier Lake

Image Source: <https://timesofindia.indiatimes.com/travel/destinations/the-startlingly-pink-water-of-australias-lake-hillier-would-take-your-breath-away/as75078782.cms>

**Workshop on Epicollect 5**

The workshop on Epicollect 5 was conducted on 10th December 2021, by the Department of Geography for the students to expertise in use of technology in survey and data collection. Resource person for the workshop was Mr. Deepak Kumbhar.



Students were briefed about the Epicollect 5 and how to build a questionnaire in web based application and same to be used in mobile based application. Demonstration was done and data entries were shown to the Students.

**Heritage walk** (Contd. From pg no. 1)

They showed different structures referring to Portuguese era and briefed about the importance and usage of the structures during Portuguese era. The group walked through the streets to experience the historic landscape of Margao.

Usage of Technology in Socio Economic Survey

Panaji; Public and tourist feedback was taken on importance of heritage in the city, was organized by the Geography Department for the student Epicollect 5 software was used for data collection of the public and Google forms were used to collect data from tourists, process enabled to enhance the skills in use of technology, communication with locals and tourists. Two faculty members Prof. Dr. Nandkumar Sawant and Ms. Audrey D'Costa accompanied the students for the data collection process. Data collection was started from the immaculate Conception church in Panaji for the tourists and Market area was chosen to survey the locals..

**Faculty Participation**

Dr. Sanjay Gaikwad, Assistant Professor, Department of Geography, participated in a workshop on “**Outcome Based Education Mapping**” on 7th December 2021 in Parvatibai Chowgule College.

**Paper Presentation**

Professor Nandkumar Sawant, along with Shri Ulhas Gaonkar, Research Scholar participated and presented research paper “**Agricultural Practises and Pattern amongst the Tribals of Morpilla Village, Goa - India**”. in the International Conference of the Association of Punjab Geographer on the theme Agriculture, Food Security and Well being on 30-31st Dec, 2021. Dr Nandkumar Sawant also chaired the session (VI B) on the theme Changing Agricultural Practices and Sustainability.

Hillier Lake (Contd. from Pg 2)

... Its pink color is less accentuated when viewed from the surface but it is very prominent from above. However, unlike other pink lakes around the world, its water is still distinctively pink even when it is in a glass.

For a few years they used to extract salt from the lake but nowadays it is only used for tourism purposes. The water of the lake is otherwise clear and it causes no harm to the human skin and the Dunaliella salina alga is completely harmless as well. In fact, swimming in the lake's water is safe and fun but impossible to do for normal tourists as the lake can't be visited.

Geographical Quotes:

“Geography prepares for the world of work – geographers, with their skills of analysis are highly employable!”

- Michael Palin

The Sargasso Sea Has No Coasts

The only sea in the world without any coasts, the Sargasso Sea is found in the Northern portion of Atlantic Ocean. It is a vast patch of ocean named for a genus of free-floating seaweed called Sargassum.

While there are many different types of algae found floating in the ocean all around world, the Sargasso Sea is unique in that it harbors species of sargassum that are 'holopelagic' — this means that the algae not only freely floats around the ocean, but it reproduces vegetatively on the high seas. Other seaweeds reproduce and begin life on the floor of the ocean.



<https://oceanexplorer.noaa.gov/oceanos/>

DISCLAIMER

The Editorial team is not responsible for the views expressed in the newsletter.

Editorial Team**Teacher-in-Charge:**

Mr. Venkatesh Prabhugaonkar

Office-in-Charge:

Ms. Lalita P. S. Kuncolienkar

Send your feedback to:

geography@chowgules.ac.in