



**Session- 2022-2023**

## **ENVIRONMENT DAY CELEBRATION**

On June 5th, 2022, the students of M.Sc. Botany 4th semester, under the banner of the Green India mission, participated in a cleanliness drive at Naldehra Heights. The event aimed to promote the mission of a cleaner and greener India. The volunteers were divided into groups and assigned specific areas to clean up. They collected trash and glass bottles, which were then disposed of properly. The municipal corporation provided assistance with trucks and additional manpower. Banners were displayed to raise awareness and encourage everyone to participate in keeping the environment clean.



## **VISIT TO CPRI**

On August 25th, 2022, BSc. III-year students went on a field trip to the Central Potato Research Institute in Shimla. The students received an introduction about the history, objectives, and contribution of the organization from an eminent scientist. They then visited the institute's extensive library, which is the second largest in Asia and contains abundant literature on potatoes. After that, the students were shown various tools and instruments used in potato crop development and plant tissue culture experiments. The highlight of the visit was the Electron



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microscope, and the technical staff explained its structure and function to the students. Next, the students visited the tissue culture lab, where the process was explained to them. They also visited the museum, which exhibited information on various potato varieties developed by CPRI, value-added potato products, and associated diseases. The visit also emphasized the importance of agriculture, not only in the field of science but also in how it helps local people deal with problems such as pests and drought. Overall, the visit was very informative for the students.



## WILDLIFE WEEK CELEBRATION

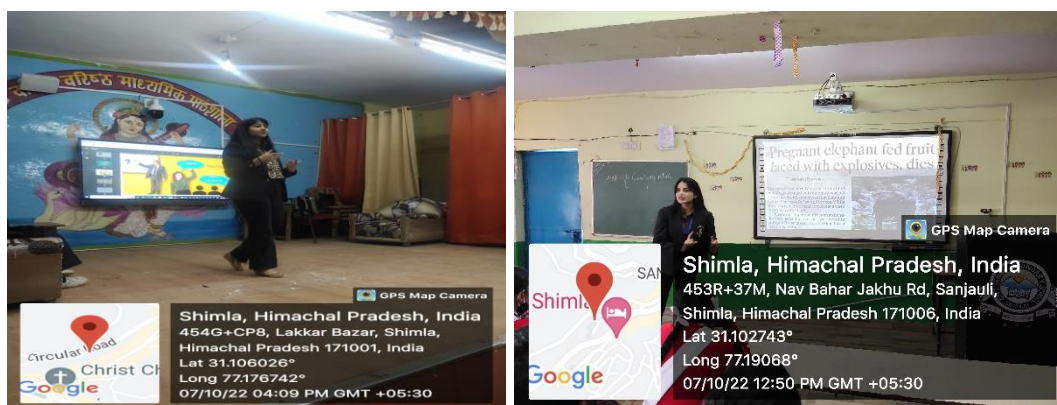
### Theme: Raising awareness on Biodiversity Conservation

On October 7, 2022, as a part of wildlife week celebrations, B.Sc. III Medical students visited two schools, namely Govt. Sr. Sec. School, Sanjauli and Govt. Sr. Sec. School, Lakkar Bazar, to conduct a PowerPoint presentation on the topic of Wildlife Conservation and its importance. The audience comprised of students from class 9 to 12 and staff members of both the schools. The students covered various topics such as major threats to wildlife, effects of wildlife



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depletion, past and present wildlife of India, and the IUCN Red List. They also explained how having a particular animal or bird as an emblem of a state contributes to wildlife conservation. The interactive session with the students provided a great opportunity for them to learn about wildlife conservation. The event was highly useful and interactive, leaving everyone with a sense of satisfaction and value.



## WORLD FOOD DAY CELEBRATION

On 16th October every year, International World Food Day is celebrated worldwide in honor of the founding of the Food and Agriculture Organization of the United Nations in 1945. To mark the occasion, students of BSc. II celebrated World Food Day in their own unique way. They visited the Govt. Primary School in Sanjauli to raise awareness among young children about the importance of a healthy and balanced diet in our daily lives through street plays, rhymes, and games. The students were encouraged not to waste food as doing so means wasting money and effort, which is never good for anyone. They were also educated about the importance of eating a variety of fresh fruits and vegetables that are rich in nutritional value and health benefits. Healthy eating habits help to maintain a healthy weight and reduce the risk



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of many diseases. The event was successful in imparting valuable information while also being fun and engaging for all participants.



**FIELD VISIT TO WESTERN HIMALAYAN TEMPERATE ARBORETUM,  
POTTER'S HILL**

On 20th October 2022, a field trip to Potters Hill Nature Park was arranged for MSc. I and III semester students. The group of 35 students had a goal to discover the Western Himalayan flora. The purpose of the trip was to gain knowledge about various flora present in Himachal Pradesh, their cultivation techniques, and uses. The host who guided the group provided detailed explanations about different higher altitude plants and their uses. The students were introduced to various plants that are not typically cultivated in Himachal Pradesh, such as Ginkgo biloba, as well as plants found at higher altitudes in HP, such as Betula utilis. The students gained a lot of information about various aspects of Western Himalayan flora during the visit. Overall, the trip was informative and successful for the students.





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## INTERDEPARTMENTAL ACTIVITY

On December 13th, 2022, Ms. Madhu Thakur, an Assistant Professor in the Department of Chemistry, delivered a lecture to the students of M.Sc. Botany 1st Semester. The lecture covered various topics related to basic principles of thermodynamics, enthalpy and entropy, redox potential, and enzyme kinetics, specifically the Michaelis-Menten equation.

## LOCAL FIELD VISIT TO DIRECTORATE OF HORTICULTURE

The Department of Botany organized a field trip on December 22nd, 2022 for both PG and UG students to visit the Department of Horticulture in Navbahar, Shimla. The objective of the trip was to observe various species of flowering plants and to learn about their value-added products. The department's scientists delivered an informative talk on floriculture, followed by an interactive session with the students. The students then visited the nurseries and greenhouses, where they observed a vast collection of flowering and medicinal plants such as Magnolia, Vinca major, Thuja, Asparagus, Tradescantia, Daisy(Asteraceae), Strelitzia (Bird of Paradise), Geranium, Utricularia, Rumex obtusifolius (Bitter dock), and Smilax. The experience was insightful and interesting for the Botany students, who gained knowledge about floriculture and value-added products from plants.





## **NATIONAL CONFERENCE ON “NOVEL PROGRESSIONS IN SCIENCE AND TECHNOLOGY**

A two-day National Conference titled “Novel Progressions in Science and Technology-2022” was organized by the Science faculty of St. Bede’s College Shimla on 28th - 29th Nov. 2022. The event featured talks by renowned speakers on various topics related to Science and Technology. In addition, researchers from across the country presented 20 oral research papers and 15 poster presentations during the conference.

The faculty members and the students of Botany Department participated enthusiastically as members of organising committee. Ms. Preeti Kaundal (Assistant Professor, Botany) of the Department was the organising secretary of the conference.



## **NATIONAL SCIENCE DAY CELEBRATION**

On the 28th of February and 1st of March 2023, the Science Departments of St. Bede’s College Shimla collaborated with Physics Teachers (IAPT) and Indian Science Congress Association, Shimla Chapter (ISCA) to organize a two-day program called “Discoveries in Science and Sustainable Development”. The aim of the program was to raise awareness and promote scientific thinking among students and the general public, in celebration of National Science Day.



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The theme for the event was “Global Science for Global Well Being”. The program was attended by students of various colleges of Himachal Pradesh. The event included talks by renowned speakers on various science-related topics, a film screening on cyclotron, demonstration sessions, sky watching, an inter-college science quiz competition, and an exhibition by science students. Six teams participated in the quiz competition, and Professor S. S. Kanwar delivered a talk on the topic "Microplastics: Omnipresent Pollutant and Health Issue." His lecture focused on the growing concerns of microplastic pollution and its potential health impacts on humans and wildlife. He also discussed initiatives to reduce plastic waste and promote sustainable production and consumption patterns.

### **INTERDEPARTMENTAL ACTIVITY ON MEDICINAL PLANTS AND THEIR USES**

On March 3rd, 2023, an interactive session was organized by the Botany Department in collaboration with the History Department for the third-year B.Sc and B.A students. The session included a PowerPoint presentation on "Medicinal Plants and Their Uses," which highlighted the importance of Indian medicinal plants in combating various diseases.



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