

## Department of Microbiology

Session 2023-24

### Annual Activities

#### Green Auditing of the college campus

**Date:** May 25, 2023

**Objective:** To enhance environmental consciousness across campus while ensuring that institutional practices prioritize eco-friendliness and sustainability.

**Description:** On May 25, 2023, our department spearheaded a comprehensive green audit of the college campus, focusing on noise levels and ambient air quality. Collaborating with the State Pollution Control Board in Shimla (HP), this audit aimed to establish baseline environmental data and proactively address emerging issues.

**Outcome:** The green audit successfully pinpointed areas for environmental enhancement and identified key factors contributing to environmental quality, paving the way for targeted improvement measures.





**H.P.STATE POLLUTION CONTROL BOARD**  
HIM PARIVESH, PHASE-III, NEW SHIMLA-171009

HPSPCB No : 3

Date: 14/07/2023

Industry Registration ID: 24076

Application No : 9950892

To,  
St Bedes College  
Navbhar, Shimla 171002-Shimla  
Shimla  
Shimla  
171002

Subject: Consent to Operate u/s 25/26 of Water (Prevention & Control of Pollution) Act, 1974 and u/s 21 of Air (Prevention & Control of Pollution) Act, 1981.

With reference to your application for obtaining 'Consent to Operate' u/s 25/26 of Water (Prevention & Control of Pollution) Act, 1974 and u/s 21 of Air (Prevention & Control of Pollution) Act, 1981, you are hereby, authorized to operate an industrial unit subject to the Terms and Conditions as mentioned in this Consent letter.

**1.Particulars of Consent to Operate under the Water Act, 1974 and Air Act, 1981 granted to the industry**

Consent No.	CTO/BOTH/NEW/RO/2023/9950892
Date of issue :	14/07/2023
Date of expiry :	31/03/2024
Certificate Type :	NEW
Previous CTE/CTO No. & Validity :	

**2. Particulars of the Industry**

## Webinar on Careers in Microbiology

**Date: July 18,2023**

**Objective:** To enlighten final-year students in the department about the diverse career paths available in Microbiology, tailored to their unique experiences and educational backgrounds.

**Description:** Commencing the session, final-year students participated in a webinar focused on elucidating the plethora of career opportunities within the realm of Microbiology. Hosted by the Department of Microbiology at JUIT, Solan, on July 18, 2023, the webinar featured an expert

resource person who provided detailed insights into various job profiles. These included roles such as virologists, soil and water testing technicians, immunologists, science content writers, mycologists, and clinical laboratory scientists. Additionally, students were informed that positions within a laboratory span from laboratory assistants to Directors of Research.

**Outcome:** The webinar significantly broadened the students' understanding of career prospects in microbiology, enabling them to strategically plan their higher educational pursuits with enhanced clarity and foresight.



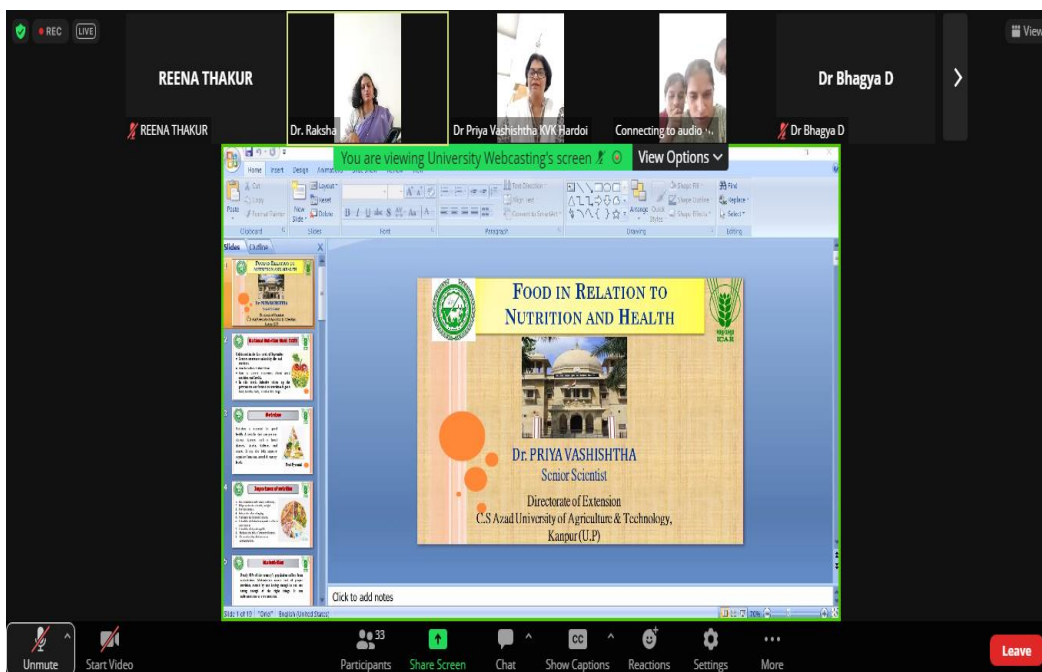
### **Special online lecture on “Food Relation to Nutrition and Health”**

**Date:**September 4,2023

**Objective:** To commemorate National Nutrition Month by fostering awareness and advocating for a healthy lifestyle and proper nourishment among students.

**Description:** On September 4, 2023, students enrolled in B.Sc (Hons) Microbiology participated in a special online lecture titled "Food Relation to Nutrition and Health." This event was organized to mark National Nutrition Month and was aimed at promoting healthy living and nutritional awareness. The lecture was expertly delivered by Dr. Priya Vashishtha, Senior Scientist at CS Anand University of Agriculture and Technology, Kanpur (UP). Dr. Vashishtha emphasized the importance of adopting healthy and adaptable eating patterns to maintain a wholesome lifestyle.

**Outcome:** This initiative served as a valuable platform to heighten awareness regarding the significance of maintaining a balanced diet abundant in essential nutrients.



## Celebration of World Micro Organism Day

**Date :** September 17, 2023

**Objective:** To highlight and promote the diversity and significance of microorganisms.

**Description:** Each year on September 17, we celebrate International Microorganism Day, an occasion dedicated to raising awareness about the multitude of roles microscopic organisms play



in human health, culture, economics, employment, and our daily lives. This year, as part of the commemoration, Neetika, a second-year B.Sc (Hons) Microbiology student, delivered a compelling power point presentation titled 'Gut Microbiome in Modern Biology.' In her presentation, she emphasized the critical role of gut microbiota in both human and animal health, emphasizing its importance in disease management and overall well-being

**Outcome:** International Microorganism Day offered a vibrant platform for organizing inclusive events tailored to individuals of all ages, fostering a collective celebration of the captivating marvels found within the microscopic realm.

**St. Bede's College** iμD  
Heritage Status NAAC Re-Accredited A\* Grade international microorganism day

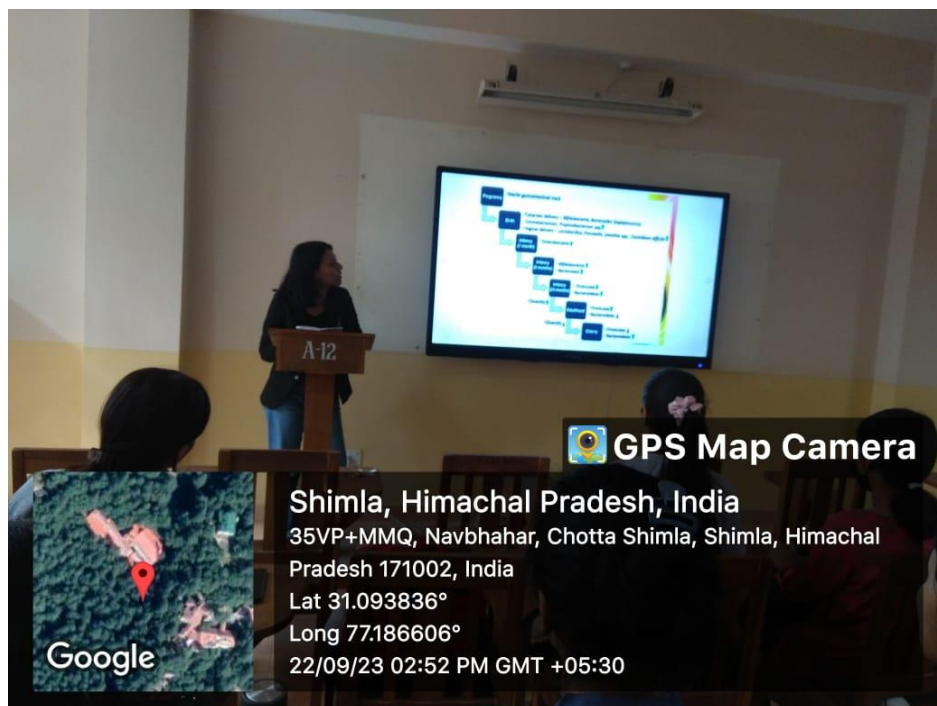
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**DEPARTMENT OF MICROBIOLOGY**  
CELEBRATES  
"INTERNATIONAL MICROORGANISM DAY"

**Activities organized:**

- PowerPoint Presentation on "Gut Microbiome in Modern Biology "

DATE :SEPTEMBER 17, 2023 VENUE:SEMINAR ROOM



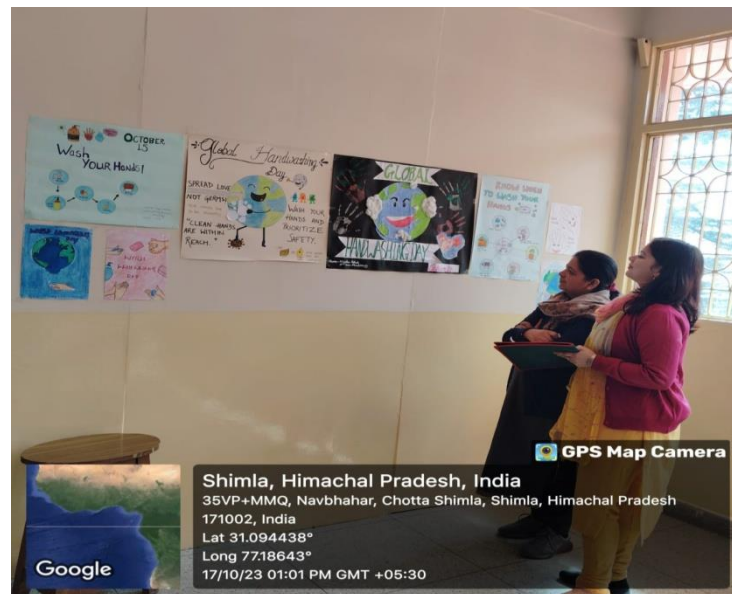
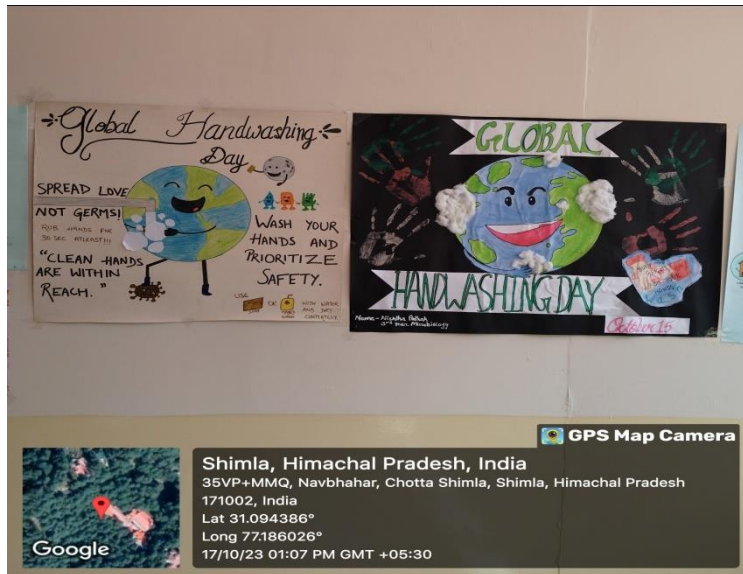
## **Celebration of Global Handwashing Day**

**Day:** October 15, 2023

**Objective:** This is a day dedicated to celebrating and advocating for handwashing with soap as an effective, affordable way to prevent diseases.

**Description:** On 15 October, 2023, Department of Microbiology organized poster making competition to celebrate this day and all the students of the department actively participated in this event. Global Handwashing Day is a yearly reminder that handwashing with soap and water is one of the best steps we can take to avoid getting sick and spreading germs to others. This year's theme, "Clean Hands Are Within Reach," calls for coordinated action as we actively work toward universal hand hygiene.





**Outcome:**It offered an opportunity to design, test, and replicate creative ways to encourage people to wash their hands with soap at critical times.

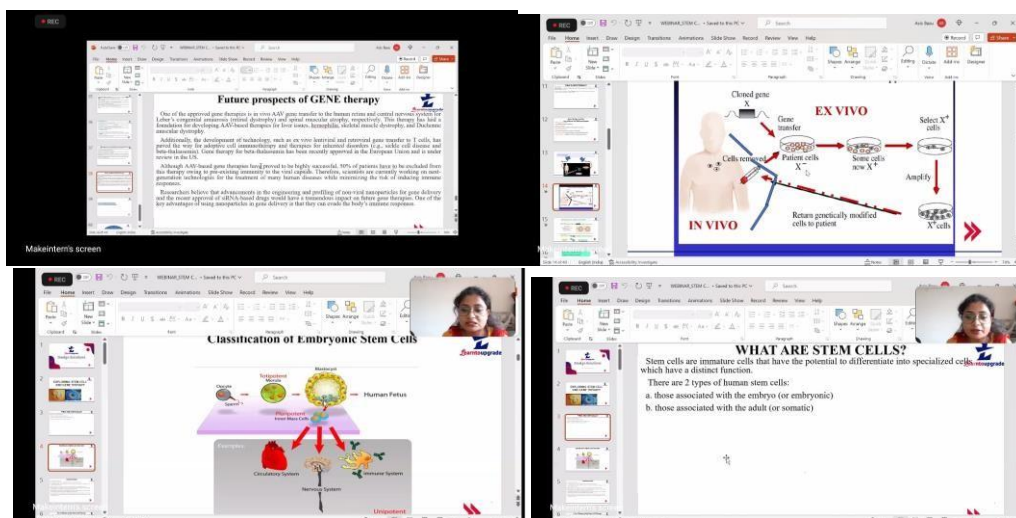


## Webinar on Cancer Cell Research

**Date:**October 19, 2023

**Objective:**The objective was to update latest developments in the field of cancer stem cell research.

**Description:**The students from the Department of microbiology attended a webinar entitled "Advances in Cancer Stem Cell Research" on October 19, 2023. This webinar, which was organized by Learn to Upgrade, was a highly informative and engaging event that discussed the latest developments in the field of cancer stem cell research. The webinar featured several prominent experts in the field of cancer biology and stem cell research. Key point areas of discussion of the Webinar are Cancer Stem Cells (CSCs),latest research findings,therapeutic approaches and their clinical implications.



**Outcome:** The students were informed and made aware about the latest research findings on Cancer Stem Cells (CSCs), therapeutic approaches and their clinical implications.

## Compost Sale

**Date:** November 3, 2023

**Objective:**To build healthier soil, prevent soil erosion, conserve water, and improve plant growth in one's garden and yard

**Description:** On November 3, 2023, the Department of Biotechnology and Microbiology of St. Bede's College, Shimla organized a sale of compost in the college courtyard. The compost was

prepared in the composting unit of the college using the food waste material collected from the college mess and canteen. The compost was sold under the brand name of Bede's Biocom. The Principal of the college, Prof. (Sr.) Molly Abraham inaugurated the sale. The faculty and students of the college bought the product.

**Outcome:** The students of the department were involved in the process of making and maintaining compost unit. This activity made the students aware about scientific disposal of biodegradable waste and preparation of biofertilizer for use in the fields and kitchen garden.





Shimla, Himachal Pradesh, India

35VP+MMQ, Navbhahar, Chotta Shimla, Shimla, Himachal Pradesh 171002, India

Lat 31.094527°

Long 77.186459°

03/11/23 11:30 AM GMT +05:30

GPS Map Camera

Google



## **Guest Lecture and Career Counseling Session on Biotechnological Advancements**

**Date: November 23,2023**

**Objective:** To guide and enlighten students about various career prospects and latest advancements in biotechnology

**Description:** The students of the department attended a guest lecture on ‘Biotechnological Advancements and Career Counseling’ held on November 23, 2023 in the seminar room. The resource person was Dr Vikas Mangal, Scientist, CPRI, Shimla. He explained the students about ways to develop industry relevant skills and knowledge and motivated them to explore different avenues in the field of Biotechnology. He enlightened and guided the students in various career aspects where the students can aspire and initiate their career. The students interacted enthusiastically and the resource person answered their queries and cleared their doubts.

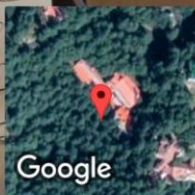
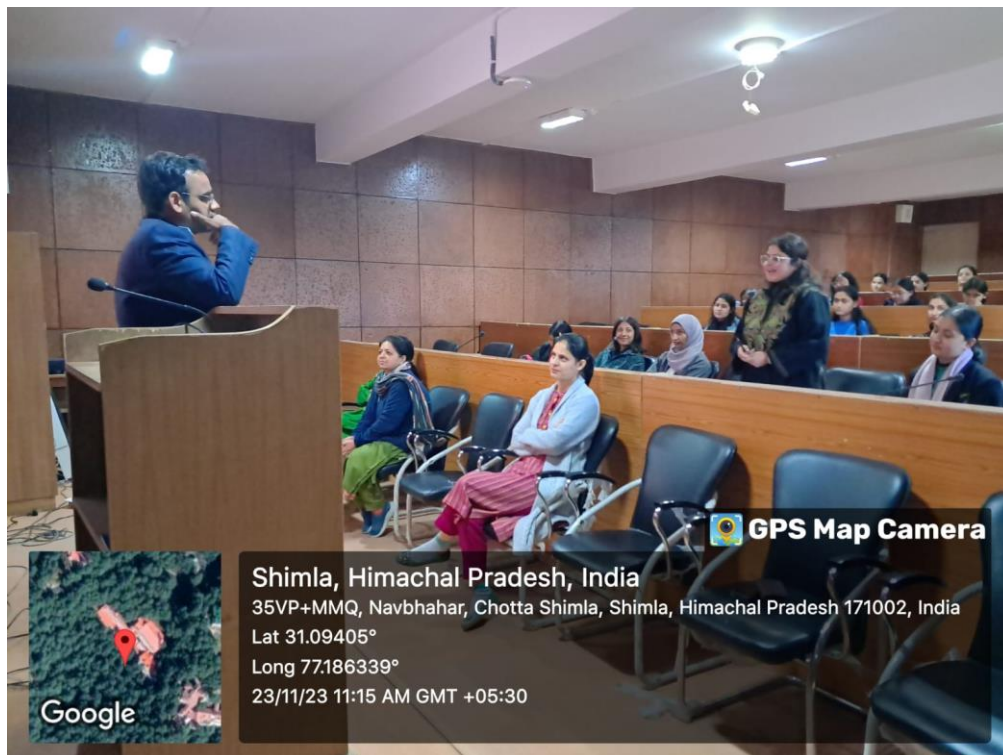
**Outcome:** Students became aware about latest research areas alongwith necessary skills required in the field of biotechnology and various career opportunities which they can choose after their graduation.



**Department of Biotechnology**  
is organizing a  
**Guest Lecture and Career Counselling Session**  
on  
**'Biotechnological Advancements and  
Career Opportunities**

Resource Person: Dr. Vikas Mangal, Scientist, CPRI Shimla  
Venue: Seminar Room  
Date: November 23, 2023  
Time: 11.00 AM onwards

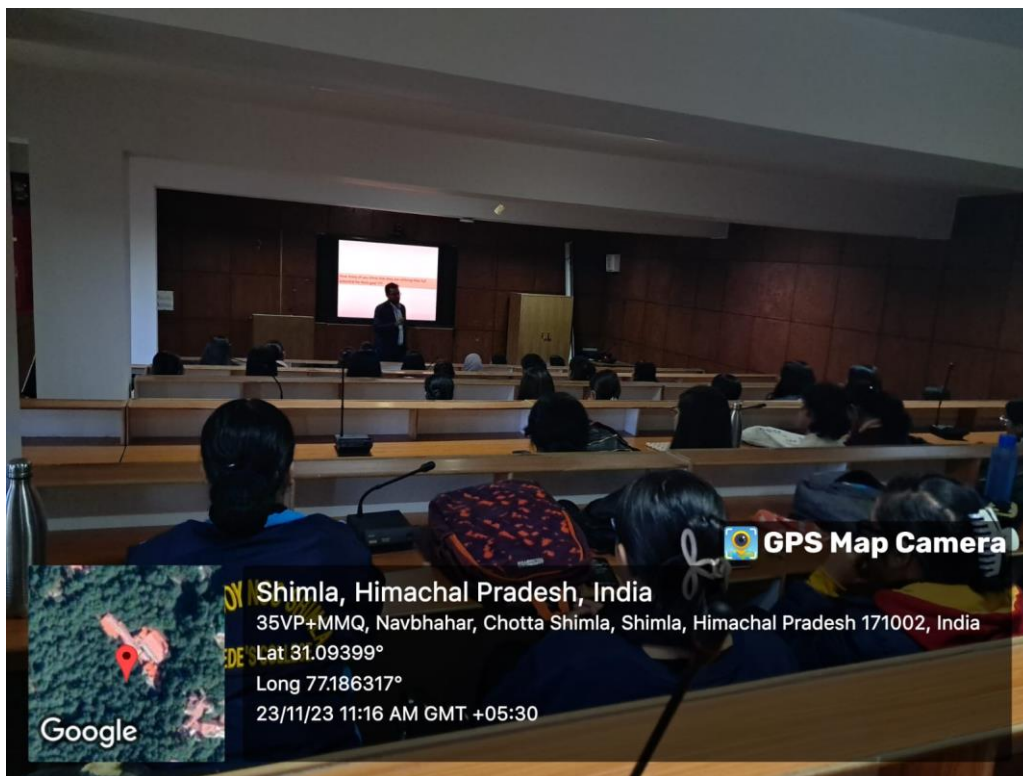




**GPS Map Camera**  
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Long 77.186339°  
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**GPS Map Camera**  
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## **Hands on Workshop in Molecular Biology and Bioinformatics Techniques**

**Date: December 7, 2023**

**Objective:** To make students learn basic molecular biology techniques and become well versed with bioinformatics tools through hands on experience.

**Description:** The Department of Microbiology in collaboration with Department of Biotechnology and Bioinformatics, JUIT, Solan, organized 'Hands on Workshop in Molecular Biology and Bioinformatics Techniques' on December 7, 2023. The resource person for first session of the workshop was Dr Rahul Srivastava. He gave an in depth demonstration on DNA, RNA isolation and restriction ligation techniques. The session was taken by Dr Shikha Mittal on Basic Tools and Techniques in Bioinformatics. Dr Sudhir Sayal, Prof. Head, Department of Biotechnology and Bioinformatics, JUIT, also interacted with the students and enlightened them about different learning skills so that they could learn and study in a better way.

**Outcome:** The students were enlightened and guided by the experts of the fields of molecular biology and bioinformatics. They also got an opportunity for hands on training where they learnt various bioinformatics tools and molecular biology techniques.

**Department of Biotechnology and  
Microbiology**  
of  
**St. Bede's College**  
in collaboration with  
**Jaypee University of Information Technology**  
is organizing a  
**One -Day Workshop**  
on  
**Hands on training in Molecular Biology  
Techniques**

Date: December 7, 2023  
Time: 10.00 AM onwards









