



*Department of Botany*  
*St. Bede's College, Shimla*

**Activity: Training program on Application of Biofertilizers and Biopesticides in Forestry Practices**

**Date: 25<sup>th</sup> - 27<sup>th</sup> September, 2024**

**Venue: Kufri**

**Objectives:**

1. To acquire knowledge about the importance of bio-fertilizers and bio-pesticides in sustainable forestry practices.
2. To discuss and explore the practical applications of bio-fertilizers and bio-pesticides in forest ecosystems.
3. To gain knowledge about the entrepreneurial opportunities in the field of bio-based fertilizers and pesticides.

A three-day training program on the "Application of Bio-fertilizers and Bio-pesticides in Forestry Practices" was organized by Himalayan Forest Research Institute (HFRI) and sponsored by Ministry of Environment, Forest, and Climate Change (MoEF&CC), Government of India from 25th to 27th September 2024. Six B.Sc. students from the Department of Botany, along with Assistant Professor Dr. Preeti Kaundal, participated in the event. The training aimed to enhance understanding and application of bio-fertilizers and bio-pesticides, focusing on their role in sustainable forestry practices. The participants included students, professionals, farmers and educators engaged in forestry and environmental sciences.

**Day 1: Inaugural Session and Expert Talks**

Several specialists and scientists were invited to deliver lectures on the first day of training program. Topics included were **Bio-pesticides and Sustainable Development, Bio-pesticides and Bio-fertilizers, their impacts on insect pollinators and role of organic farming, Vermi technology for raising socio-economic standards and doubling farmer's income, Application of Biofertilizers in forestry and Bio-control Practices: Effective Tool to manage Insect Pests of Forest of N-W Himalayas.**

**Day 2: Field Visit to Field Research Station, Shillaru**

The second day of the training program included a **field visit to Field Research Station, Shillaru**, and adjoining experimental sites providing participants with hands-on experience and practical insights.

**Day 3: Special Lectures**

The third day of the training program featured **special lectures**, including a talk by **IFS officer Deep Shikha Sharma**, focusing on the **current challenges in forestry**. The session






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provided valuable insights into contemporary environmental concerns, policy frameworks, and sustainable forestry practices.

**Outcomes:**

- **Enhanced Knowledge:** Participants gained in-depth knowledge of biofertilizers, biopesticides, and their applications in forestry.
- **Hands-on Learning:** The field visit to **Shillaru** enabled participants to experience real-world applications.
- **Entrepreneurial opportunities:** The training highlighted opportunities for **bio-based startups** in forestry and agriculture..
- **Sustainable Forestry Awareness:** The training reinforced the **importance of bio-based solutions** in addressing environmental challenges.
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डॉ. संदीप शर्मा, निदेशक  
Dr. Sandeep Sharma, Director

**हिमालयन वन अनुसंधान संस्थान**  
**HIMALAYAN FOREST RESEARCH INSTITUTE**  
भारतीय वानिकी अनुसंधान एवं शिक्षा परिषद  
(Indian Council of Forestry Research & Education)  
(पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, भारत सरकार का एक स्वायत्त निकाय)  
Autonomous Body of the Ministry of Environment, Forest & Climate Change, Government of India  
संख्या/ No.: 2SFM-32 MoEF&CC/ICFRE-HFRI/2024/174 दिनांक/ Date: 13- Oct., 2024

सेवा में/ To  
प्रधानाचार्य  
सेंट बीड्स कॉलेज,  
नवबहार, शिमला,  
171 002, हि.प्र.

**The Principal**  
St. Bede's College  
Navbahar, Shimla,  
171 002, (H.P.)

विषय: "ओक प्रजातियों की बीज, नर्सरी एवं रोपण तकनीक" पर तीन दिवसीय प्रशिक्षण के लिए छात्रों का नामांकन ----- के संबंध में  
Subject: Nomination of students for three Days Training on "Seed, Nursery and Plantation Techniques of Oak Species" -----reg.

महोदय/Sir,  
It is to inform you that the ICFRE-Himalayan Forest Research Institute (HFRI), Shimla is organizing three days training programme on "Seed, Nursery and Plantation Techniques of Oak Species" for the other stakeholders from 23<sup>rd</sup> to 25<sup>th</sup> October, 2024 at ICFRE-HFRI, Shimla.  
आपको सूचित किया जाता है कि हिमालयन वन अनुसंधान संस्थान, शिमला "ओक प्रजातियों की बीज, नर्सरी एवं रोपण तकनीक" पर तीन दिवसीय प्रशिक्षण कार्यक्रम अन्य हितधारकों के लिए 23 से 25 अक्टूबर, 2024 को हिमालयन वन अनुसंधान संस्थान, शिमला में आयोजित कर रहा है।  
You are, therefore, requested to kindly nominate 5 students of your college for the aforesaid training and inform us accordingly.  
अतः आपसे अनुरोध है कि उपरोक्त प्रशिक्षण के लिए आप के कॉलेज से 5 छात्रों को नामांकित करें और तदनुसार हमें सूचित करने की कृपा करें।  
With regards/ ससादर,  
भवदीय/ Yours faithfully,  
डॉ. संदीप शर्मा / Dr. Sandeep Sharma  
निदेशक/ Director



*Department of Botany*  
*St. Bede's College, Shimla*

*Invitation Letter*





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***Training Program on Application of Biofertilizers and Biopesticides in Forestry Practices***

**Activity: Educational visit to Central Potato Research Institute (CPRI), Shimla**

**Date: September 25, 2024**

**Objectives:**

1. To enhance class room learning through practical exposure.
2. To acquire knowledge about sophisticated analytical instrumentation and technical skills.
3. To inculcate critical thinking and learn new skills and knowledge.

**Description**

A one day educational visit was organized by Department of Botany, St Bede's College to CPRI, Shimla for the students of B.Sc and M.Sc accompanied by faculty member Dr. Sangeeta Sharma.

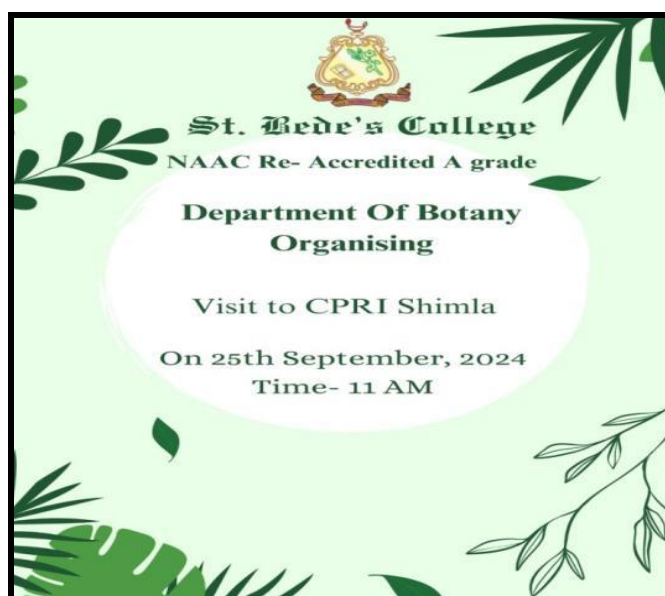
At CPRI (Central Potato Research Institute) various aspects of Aeroponics were demonstrated to students. They were told about handling and maintenance of potatoes in Aeroponics. Students got an opportunity to interact with the scientific staff at CPRI. They informed the students about the working and achievements of the institute. Overall, the trip was very informative and knowledgeable for the students as well for faculty.



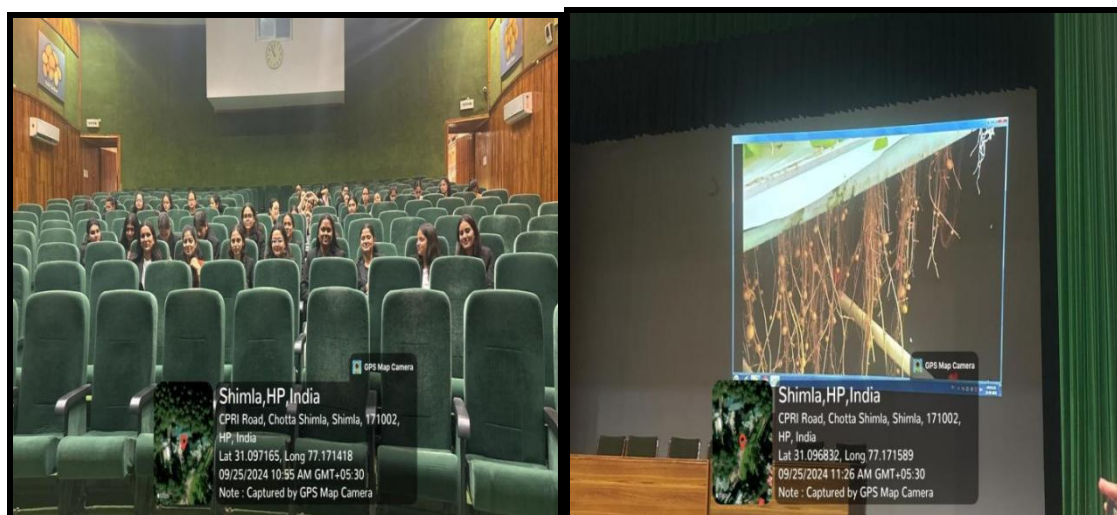


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**Outcomes:** Students gained deep understanding of various instruments available in the institute. They acquired **technical knowledge and hands-on experience** related to Aeroponics. It helped them to inculcate a scientific aptitude and broaden their horizons. The visit helped the students to identify and visualize job profiles which can help them choose their career.



*Brochure*



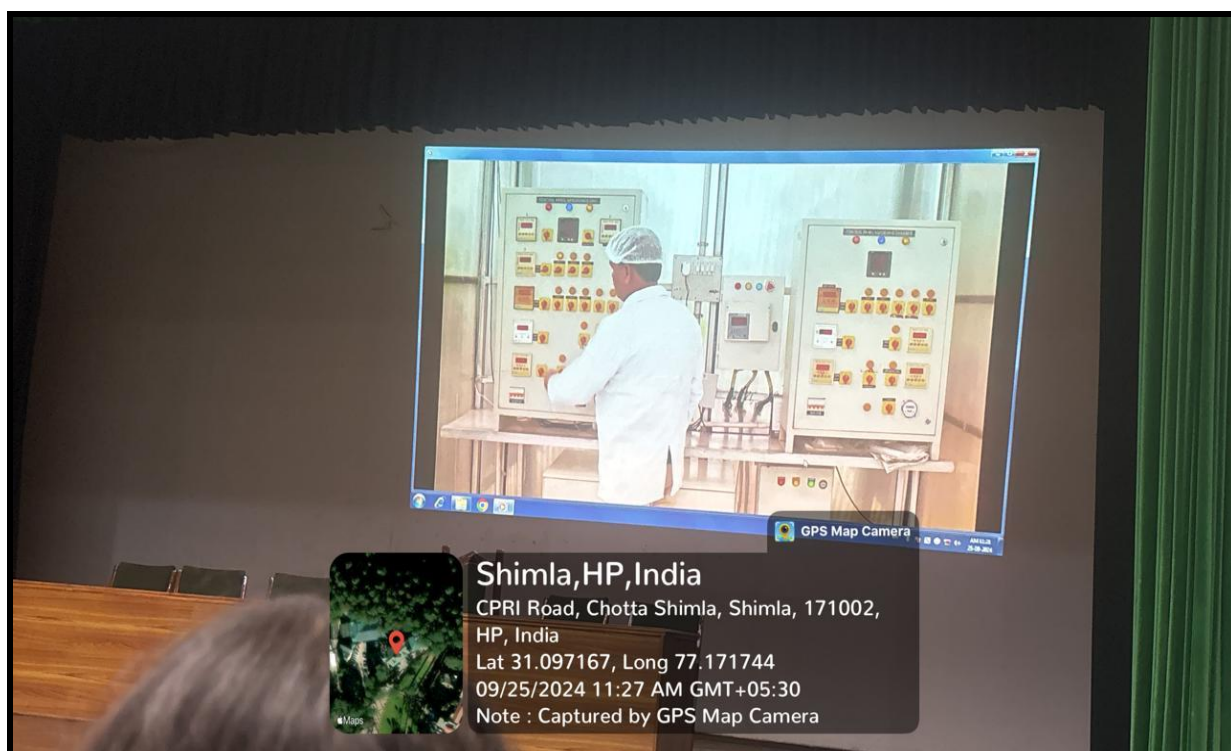
*Educational Visit to Central Potato Research Institute (CPRI), Shimla*



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*Educational Visit to Central Potato Research Institute (CPRI), Shimla*



*Educational Visit to Central Potato Research Institute (CPRI), Shimla*

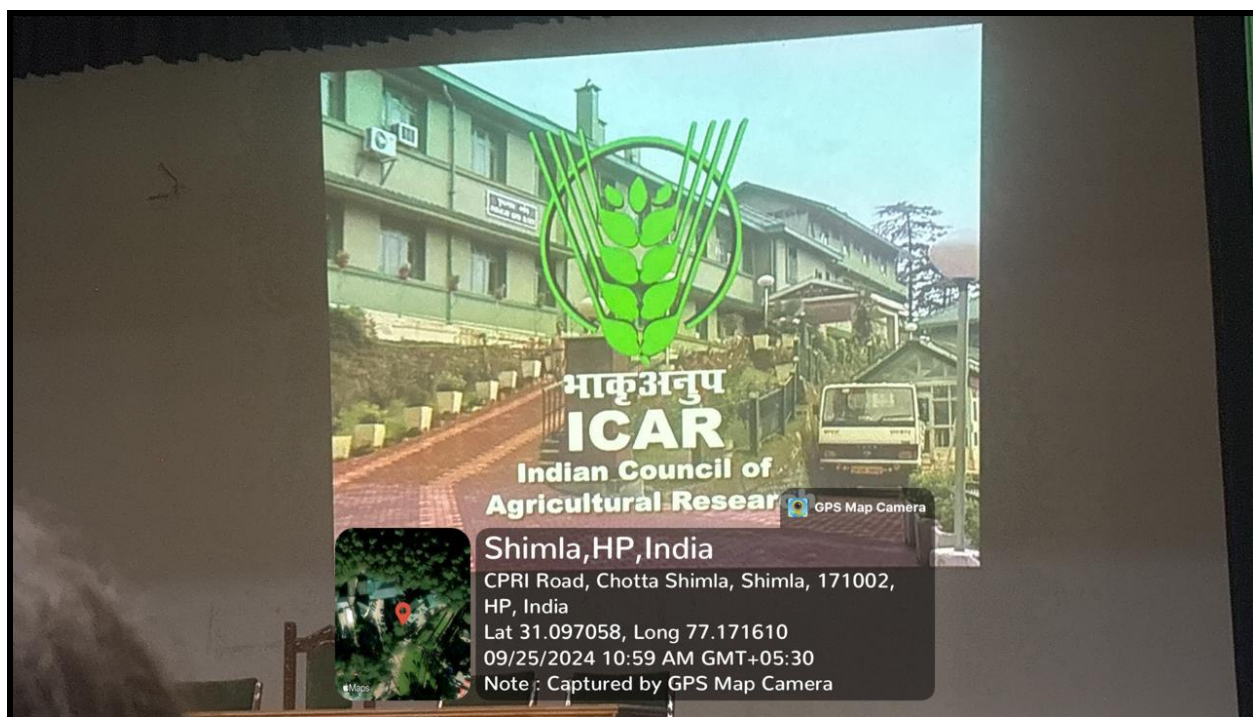




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*Educational Visit to Central Potato Research Institute (CPRI), Shimla*



*Educational Visit to Central Potato Research Institute (CPRI), Shimla*



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**Activity: Talk cum interactive session on career pathways in life sciences**

**Date: October 10, 2024**

**Venue: Seminar Hall**

**Objectives:**

- To develop a broad understanding of career pathways in life sciences.
- To familiarize students with opportunities in botanical research, both in India and internationally.
- To provide insights into research facilities, internships, scholarships, and study programs abroad.

**Description:**

The Department of Botany, St. Bede's College, organized an insightful Talk cum Interactive Session on Career Pathways in Life Sciences on October 10, 2024. The event featured Dr. Vijay Kumar, an expert in plant resilience research from Bielefeld University, Germany.

Dr. Kumar shared his extensive knowledge on plant resilience research and discussed his groundbreaking work in the field. He provided students with an in-depth overview of career opportunities in botanical research, both in India and internationally. He also introduced students to research facilities available in both countries, emphasizing the global potential for collaboration and growth in the field.

Furthermore, he discussed internship opportunities, scholarships, and study programs abroad, encouraging students to explore avenues for academic and professional development in life sciences. The session was highly engaging, leaving students inspired and equipped with valuable career insights.


**Outcomes:**







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The session was both informative and inspiring, equipping students with the knowledge and tools necessary to navigate their future career paths in botanical research and life sciences. It was a valuable opportunity for students to gain insights into the academic and professional possibilities that await them in this dynamic and impactful field.

**St. Bede's College**  
*Department of Botany*  
is Organizing  
a talk cum interactive session on career  
pathways in Life Sciences



**Topic: Plant exposure to combined stresses:  
Are we using existing molecular diversity for survival in nature?**

**Speaker: Dr. Vijay Kumar**  
(Bielefeld University, Germany)

**Date: October 10, 2024**  
**Time: 10:30 am**  
**Venue: Seminar room**

*Brochure*





*Talk cum Interactive Session on Career Pathways in Life Sciences*

**Activity: Educational Trip to Forest Research Institute, Dehradun**

**Date: 25th to 29th October, 2024**

**Objectives:**

- To bridge theoretical knowledge with real-world applications in botany and environmental science.
- To provide students with practical exposure to forestry and conservation techniques.
- To enhance understanding of plant diseases, sustainable forestry practices, and the socioeconomic role of forests.

**Description:**

From October 25<sup>th</sup> to 29<sup>th</sup>, B.Sc. and M.Sc. Botany students of St. Bede's College embarked on an enriching educational trip to Uttarakhand. This experience not only deepened their academic knowledge but also strengthened their bond as Bedeians and introduced them to Uttarakhand's cultural and natural beauty.

Students accompanied by their teachers visited the Forest Research Institute (FRI) in Dehradun. This visit was a significant learning opportunity, as FRI houses five specialized museums that provide valuable insights into forestry and conservation. Under the guidance of Dr. Preeti and Asst. Prof. Titiksha, students explored these museums, receiving detailed explanations that enhanced their understanding.

The Pathology Museum focused on plant diseases, where students learned how pathogens affect forest health. In the Silviculture Museum, they explored sustainable forestry practices and gained insights into forest management. The Social Forestry Museum highlighted the

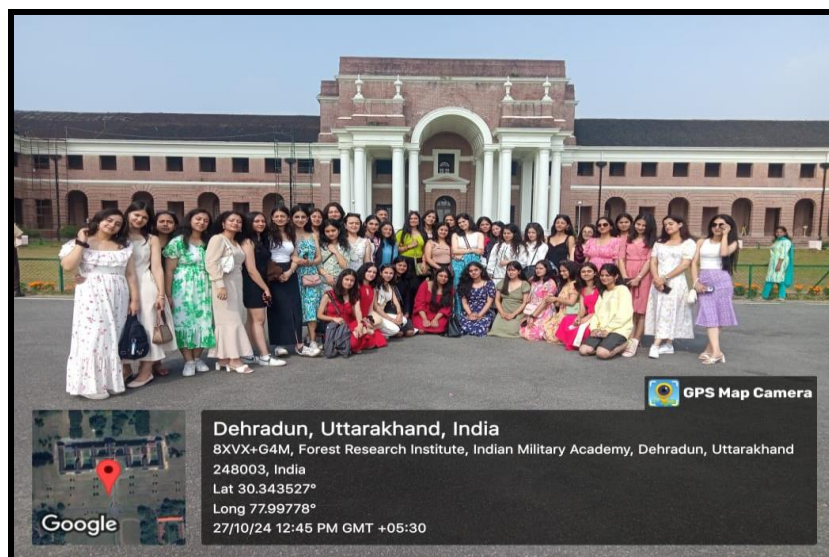


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relationship between forests and rural communities, emphasizing the crucial role of forests in supporting local livelihoods. At the Timber Museum, students discovered various wood types and their preservation techniques, while the Non-Wood Forest Products Museum showcased sustainable uses of forest resources such as resins and tannins.

**Outcomes:**

- Students gained a deeper appreciation for the role of botany in ecological sustainability.
- They developed a better understanding of the interconnections between forests, conservation, and rural livelihoods.
- The trip reinforced classroom learning through hands-on experiences, fostering greater engagement with environmental studies.
- The trip successfully combined theoretical learning with practical exposure, reinforcing key academic concepts and fostering a deeper appreciation for forestry and ecological sustainability.

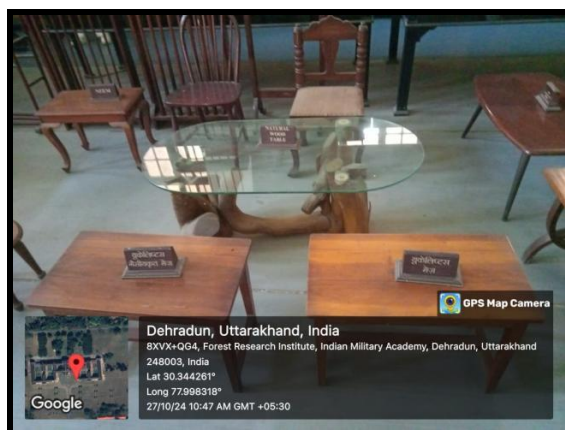
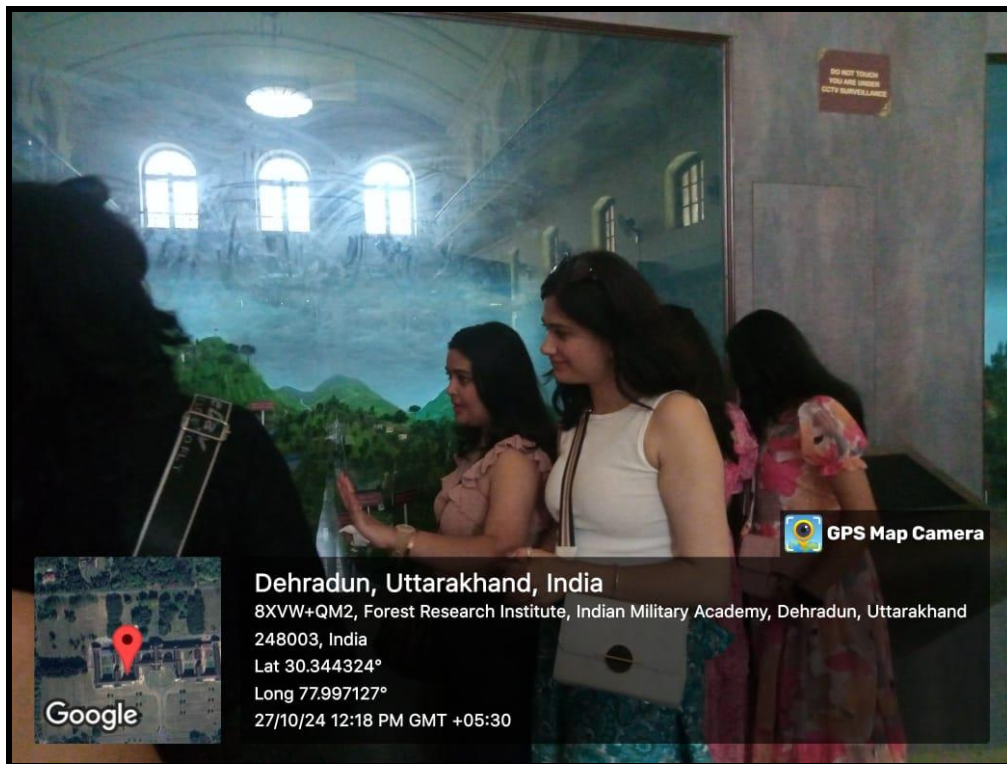


*Forest Research Institute, Dehradun*



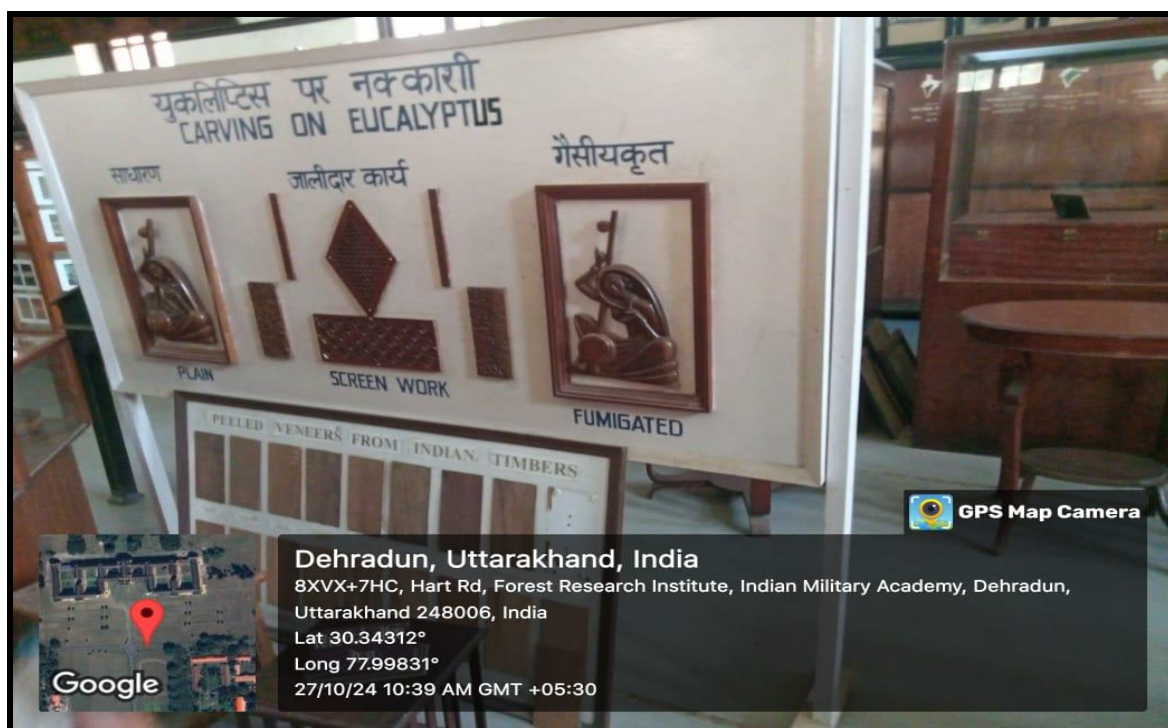
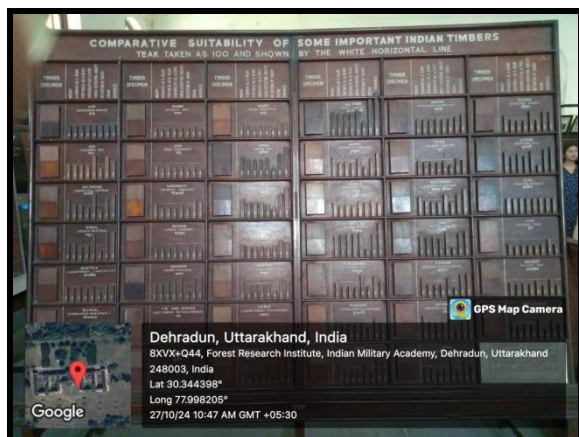


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**Activity:** National Webinar on “Bioprospection of Ethnomedicinal Plants of India.”

**Date:** November 9, 2024





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**Objectives:**

- To provide information about traditional uses of ethnomedicinal plants.
- To apply the acquainted information in modern contexts, particularly in pharmaceutical development.
- To ensure the preservation and utilization of indigenous knowledge about medicinal plants in sustainable manner.

**Description:**

St. Bede's College, Department of Botany organized a National Webinar on "Bioprospection of Ethnomedicinal Plants of India" on November 9, 2024. The resource person for the webinar was Prof. Nawal Kishore Dubey, an expert from Banaras Hindu University, Varanasi Uttar Pradesh, India. Prof. Dubey shared his extensive knowledge and insights with the students about ethnobotanical uses of several plants species. He also provided an overview of various diseases like Alzheimer, Dementia and Malaria which can be cured by medicinal plants. Additionally, he familiarise the students with various pandemic diseases and their cure with help of the plants. A total of 80 participants from different Colleges and Universities (BHU, AMU, Delhi University and HPU etc.) joined online and 41 students from (M.Sc and B.Sc Botany) St. Bede's College have participated offline in the webinar. Overall the session was very informative and interactive. Students asked their quires regarding ethnomedicinal plants and their conservation measures.

**Outcomes:**

- Students get acquainted with the traditional uses and the chronic diseases that can be cured with the help of ethnomedicinal plants.
- Participants become aware about the economic and ecological importance of some medicinal plants and their conservation methods.
- Students got opportunity to interact with the participants from different educational institutes of India.



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**ST. BEDE'S COLLEGE  
SHIMLA**  
NAAC RE-ACCREDITED 'A' GRADE

**DEPARTMENT OF BOTANY**  
*is organising a*  
**NATIONAL WEBINAR ON BIOPROSPECTION OF  
ETHNOMEDICINAL PLANTS OF INDIA**



**RESOURCE PERSON**  
PROF. M. R. DUBEY  
FORMER HEAD, DEPTT. OF BOTANY, BANARAS HINDU UNIVERSITY, VARANASI,  
UTTAR PRADESH, INDIA

<b>PATRON</b> PROF. (SR.) MOLLY ABRAHAM (PRINCIPAL)	<b>CONVENOR</b> DR. RUSUM DEPTT. OF BOTANY	<b>DATE: 09.11.2024</b> TIME: 10:30AM VENUE: SEMINAR HALL
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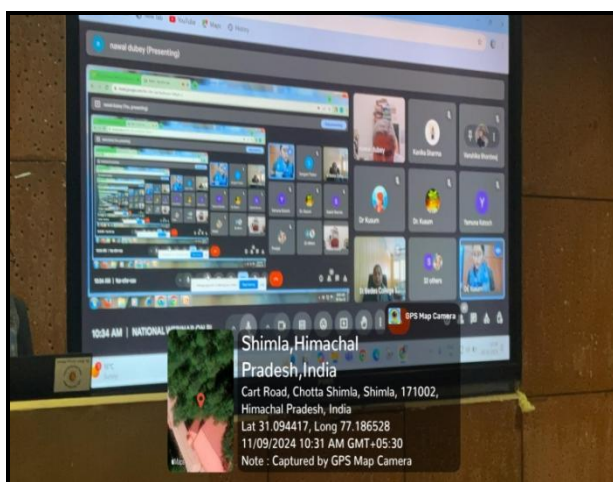
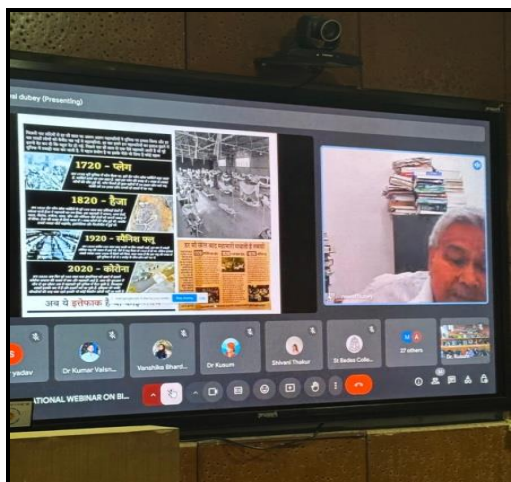
**IMPORTANT LINKS**  
Registration Link: <https://forms.gle/URuL6f76BkBTcxk8>  
Google Meet Link: <https://meet.google.com/fez-cfxr-cux>

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*National Webinar on “Bio Prospection of Ethnomedicinal Plants of India, November 9, 2024*



*Media Report- National Webinar on “Bio Prospection of Ethnomedicinal Plants of India, November 9, 2024*

**Activity: Herbal Plant Donation Drive cum Exhibition**

**Date: November 18, 2024**

**Objectives:**

- To raise awareness about the medicinal significance of plants used by indigenous communities.
- To encourage the conservation and cultivation of herbal plants through a donation drive.
- To provide students and faculty with insights into the ethnobotanical heritage of India.



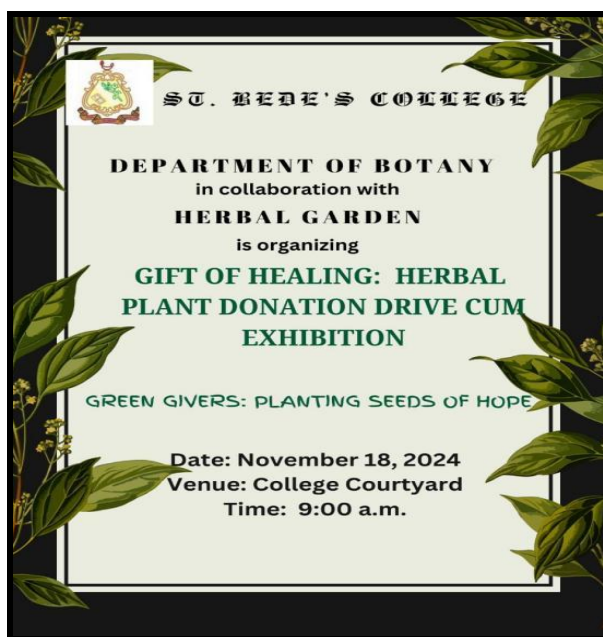


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Department of Botany, in collaboration with the Herbal Garden of St. Bede's College, organized a **Herbal Plant Donation Drive cum Exhibition**. The event featured an exhibition showcasing ethnomedicinal plants of India, highlighting their medicinal applications and the traditional knowledge of tribal communities. To commemorate the occasion, the Principal planted an *Aloe vera* plant in the college's herbal garden.

**Outcomes:**

- Participants gained valuable insights into the medicinal significance of ethnomedicinal plants and their role in traditional healthcare practices.
- The event encouraged the conservation and cultivation of medicinal plants, fostering environmental sustainability.
- The donation and planting of *Aloe vera* and other medicinal plants contributed to the growth of the college's herbal garden.
- Provided hands-on exposure to the identification, uses, and significance of medicinal plants, enhancing academic and research interests.



*Brochure*



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*Herbal Plant Donation Drive cum Exhibition*



*Media Report-Herbal Plant Donation Drive cum Exhibition*

**Activity: Skit on Waste Management at Govt. School, Sanjauli**

**Date: September 30, 2024**

**Objectives:**

- To raise an awareness among young students about proper waste disposal and segregation.
- To instill a sense of responsibility towards cleanliness and sustainability.
- To inspire students to adopt eco-friendly habits in their daily lives.
- To strengthen the participation of educational institutions in community welfare initiatives.

Department of Botany, in collaboration with the NSS Unit of St. Bede's College, organized an awareness skit on **waste management** at Government Primary School, Sanjauli, under the **Swachhata Hi Seva, 2024** campaign. The initiative aimed to educate students about the importance of proper waste disposal, segregation, and environmental sustainability through an engaging and interactive performance.

**Outcomes:**

- Students gained knowledge about waste management practices.
- Interactive performance encouraged students to engage in discussions on cleanliness.





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- Inspired students to adopt waste management habits at home and in their communities.



*Skit on Waste Management at Govt. School, Sanjauli*



*Skit on Waste Management at Govt. School, Sanjauli*



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*Skit on Waste Management at Govt. School, Sanjauli*