

Guru Nanak College, Sri Muktsar Sahib

Activities Report Performa

Session: 2021-2022

Name of the Department: Department of Physics

Activity 2: Two Days National Seminar on Recent Advances in Sciences and its Applications (RASA-2022)

Activity 2a:

1. **Name of the Activity Organized:** Webinar on 'Crystallography'

2. **Date and Venue of the Activity:** 25 March 2022, Online

3. **Name of the Resource Person, Designation and Address:**

Dr. Subhash Chandra Sahoo

Assistant Professor, Department of Chemistry, Punjab University Chandigarh

4. **Objectives of Activity:** Crystallography is the experimental science used to determine the crystal structure in terms of atomic positions, unit cells, and crystal symmetry etc. The Crystallographers can use this knowledge to modify a structure to give it new properties or to make it behave differently and also establish the new material's 'fingerprint'. The crystallography has many applications as it permeates our daily lives and forms the backbone of industries which are increasingly reliant on knowledge generation to develop new chemical products, including the agro-food,



aeronautic, automobile, beauty care, computer, electro-mechanical, pharmaceutical and mining industries. The main objective of this webinar is to give the students a knowledge of the interaction of radiation with condensed matter (material), knowledge about instrumentation used for different diffraction methods and its general use in the outside world.

5. Number and Details of the Participants/ Beneficiaries:

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6. Registration/Feedback link:

Registration Link: <https://forms.gle/vymuNG2Mi4SFa5ZP8>

Feed backLink: <https://forms.gle/FvffWZLND7sK1vy97>

7. Video/You-tube Link:

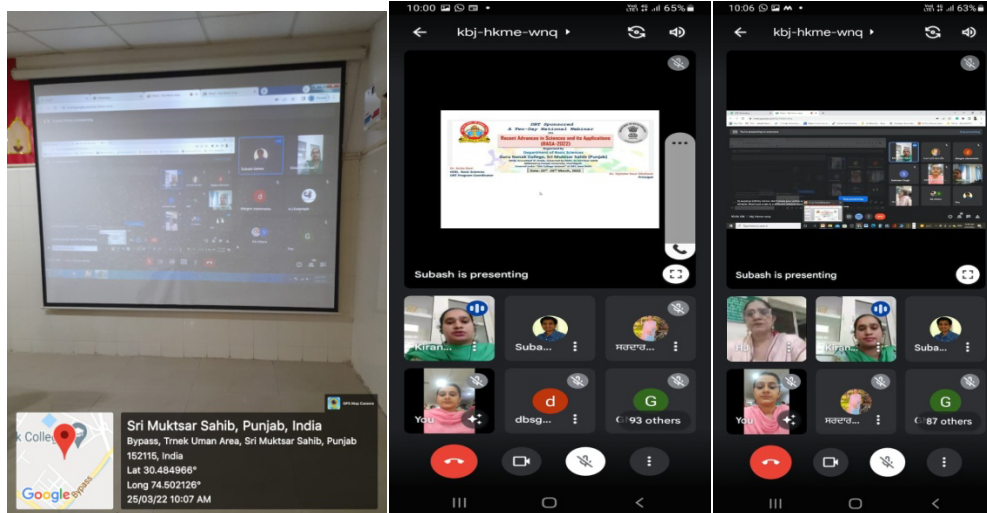
<https://youtu.be/qOxg-arf1eg>



8. Outcome of the Activity:

The students learned the history of X-ray and its discovery, Characteristics of X-ray, Properties of light and X-ray, basic concepts of X-ray Crystallography, Principles of X-Ray Diffraction, Bragg's Diffraction, Laue's Method, Patterns of X-Ray Diffraction, Structure Determination of NaCl, KCl, and CsCl and Applications of Powder Diffraction method etc.

9. Geo Tagged Photographs:



Activity 2b:

1. **Name of the Activity Organized:** Webinar on 'Electronics as an Interactive Tool to Learn Physics'

2. **Date and Venue of the Activity:** 26March 2022, Online

3. **Name of the Resource Person, Designation and Address:**

Dr. Manish Dev Sharma

Professor Department of Physics, Punjab University Chandigarh

4. **Objectives of Activity:**

The talk was aimed to make students learn the fundamentals of Electronics. It also aimed to make them learn applications of electronics.

5. **Registration/Feedback link:**

Registration Link: <https://forms.gle/vymuNG2Mi4SFa5ZP8>

Feed backLink: <https://forms.gle/FvffWZLND7sK1vy97>

6. **Video/You-tube Link:**



<https://youtu.be/2xR0T4bPM1Y>

7. Outcome of the Activity:

Basic electronic components like resistance, capacitance were shown to students to review basics of electronics. Live demonstration of platinum based sensor by blowing hot air and body temperature measurement was also done. Another demonstration was that of blades of rotating fan as to how to calculate it's speed. Demonstration of electronic concepts through various instruments eg. Multimeter, temperature sensor, memory chip, microprocessor, heat sink and integrated circuit was also done. The webinar helped in profound learning of electronics in students.

8. Geo Tagged Photographs:



Activity 2c:

1. **Name of the Activity Organized:** Webinar on 'Agrodiversity for Food Security'

2. **Date and Venue of the Activity:** 26 March 2022, Online

3. **Name of the Resource Person, Designation and Address:**

Dr. Harsh Nayyar

Professor Department of Botany, Punjab University Chandigarh

4. **Objectives of Activity:**

- To make the students aware about the significance of diversity in agricultural crops
- To make the students aware of the agrobiodiversity
- To let the students know about the benefits of agrodiversity in providing food security
- To make the students aware about the various strategies used for enhancing the diversification of agricultural crops.



5. Registration/Feedback link:

Registration Link: <https://forms.gle/vymuNG2Mi4SFa5ZP8>

Feed backLink: <https://forms.gle/FvffWZLND7sK1vy97>

6. Video/You-tube Link:

<https://youtu.be/XNkqx-Smbdc>

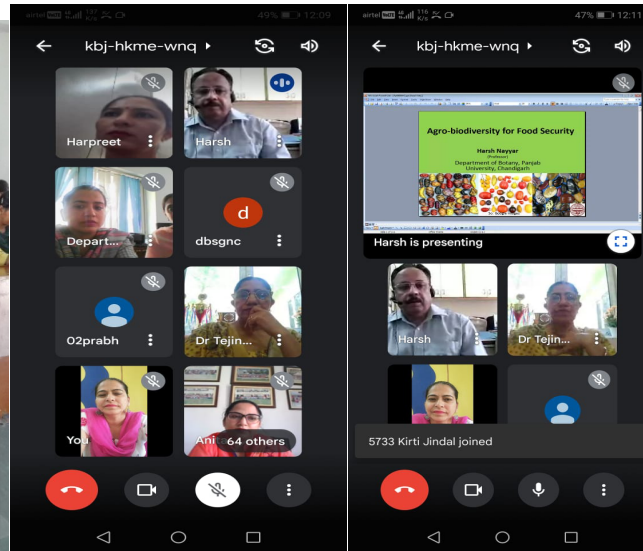
7. Outcome of the Activity:

Prof. (Dr.) Harsh Nayyar, Dept. of Botany, Panjab University, Chandigarh explained at length about the topic, 'Agro-diversity for Food Security'. He told the students about the Agricultural Biodiversity at varietal, specific, generic and ecosystem levels. Prof. Nayyar explained at length the importance of Agrodiversity for attaining sustainable food security, causes of its loss and various strategies being undertaken to prevent the loss of agricultural diversity..

The students came to know about the importance of the Biodiversity of agricultural crops and the various varieties of the crops like potato, rice, pulses, cabbage etc. The significance of maintaining the agrodiversity was also focused upon. Students came to know that the biological diversity is essential for making disease resistant varieties and sustainable food security.

8. Geo Tagged Photographs:





9. Convenors: Ms. Kirandish Kaur, Dr. Harpreet Kaur Dr. Prabhjeet Kaur

10. Moderators: Dr. Mandeep Kaur, Ms. Rajveer Kaur

11. Organising Committee:

Ms. Rippandee Kaur, Ms. Satbir, Ms. Sandeep Kaur

12. Name of the Department Coordinator: Dr. Anita Rani

DBT Program Coordinator

Principal



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